

GLOBAL JOURNAL

OF MANAGEMENT AND BUSINESS RESEARCH: C

Finance

Bull and Bear Markets

Growth of Islamic Banking

Highlights

Non-Parametric Approach

Social Performance of Banks

Discovering Thoughts, Inventing Future



GLOBAL JOURNAL OF MANAGEMENT AND BUSINESS RESEARCH: C
FINANCE



GLOBAL JOURNAL OF MANAGEMENT AND BUSINESS RESEARCH: C
FINANCE

VOLUME 16 ISSUE 5 (VER. 1.0)

OPEN ASSOCIATION OF RESEARCH SOCIETY

© Global Journal of
Management and Business
Research. 2016.

All rights reserved.

This is a special issue published in version 1.0
of "Global Journal of Science Frontier
Research." By Global Journals Inc.

All articles are open access articles distributed
under "Global Journal of Science Frontier
Research"

Reading License, which permits restricted use.
Entire contents are copyright by of "Global
Journal of Science Frontier Research" unless
otherwise noted on specific articles.

No part of this publication may be reproduced
or transmitted in any form or by any means,
electronic or mechanical, including
photocopy, recording, or any information
storage and retrieval system, without written
permission.

The opinions and statements made in this
book are those of the authors concerned.
Ultrapublishing has not verified and neither
confirms nor denies any of the foregoing and
no warranty or fitness is implied.

Engage with the contents herein at your own
risk.

The use of this journal, and the terms and
conditions for our providing information, is
governed by our Disclaimer, Terms and
Conditions and Privacy Policy given on our
website [http://globaljournals.us/terms-and-condition/
menu-1463/](http://globaljournals.us/terms-and-condition/menu-1463/)

By referring / using / reading / any type of
association / referencing this journal, this
signifies and you acknowledge that you have
read them and that you accept and will be
bound by the terms thereof.

All information, journals, this journal,
activities undertaken, materials, services and
our website, terms and conditions, privacy
policy, and this journal is subject to change
anytime without any prior notice.

Incorporation No.: 0423089
License No.: 42125/022010/1186
Registration No.: 430374
Import-Export Code: 1109007027
Employer Identification Number (EIN):
USA Tax ID: 98-0673427

Global Journals Inc.

(A Delaware USA Incorporation with "Good Standing"; **Reg. Number: 0423089**)

Sponsors: *Open Association of Research Society*
Open Scientific Standards

Publisher's Headquarters office

Global Journals® Headquarters
945th Concord Streets,
Framingham Massachusetts Pin: 01701,
United States of America
USA Toll Free: +001-888-839-7392
USA Toll Free Fax: +001-888-839-7392

Offset Typesetting

Global Journals Incorporated
2nd, Lansdowne, Lansdowne Rd., Croydon-Surrey,
Pin: CR9 2ER, United Kingdom

Packaging & Continental Dispatching

Global Journals
E-3130 Sudama Nagar, Near Gopur Square,
Indore, M.P., Pin:452009, India

Find a correspondence nodal officer near you

To find nodal officer of your country, please
email us at local@globaljournals.org

eContacts

Press Inquiries: press@globaljournals.org
Investor Inquiries: investors@globaljournals.org
Technical Support: technology@globaljournals.org
Media & Releases: media@globaljournals.org

Pricing (Including by Air Parcel Charges):

For Authors:

22 USD (B/W) & 50 USD (Color)
Yearly Subscription (Personal & Institutional):
200 USD (B/W) & 250 USD (Color)

INTEGRATED EDITORIAL BOARD
(COMPUTER SCIENCE, ENGINEERING, MEDICAL, MANAGEMENT, NATURAL
SCIENCE, SOCIAL SCIENCE)

John A. Hamilton, "Drew" Jr.,
Ph.D., Professor, Management
Computer Science and Software
Engineering
Director, Information Assurance
Laboratory
Auburn University

Dr. Henry Hexmoor
IEEE senior member since 2004
Ph.D. Computer Science, University at
Buffalo
Department of Computer Science
Southern Illinois University at Carbondale

Dr. Osman Balci, Professor
Department of Computer Science
Virginia Tech, Virginia University
Ph.D. and M.S. Syracuse University,
Syracuse, New York
M.S. and B.S. Bogazici University,
Istanbul, Turkey

Yogita Bajpai
M.Sc. (Computer Science), FICCT
U.S.A. Email:
yogita@computerresearch.org

Dr. T. David A. Forbes
Associate Professor and Range
Nutritionist
Ph.D. Edinburgh University - Animal
Nutrition
M.S. Aberdeen University - Animal
Nutrition
B.A. University of Dublin- Zoology

Dr. Wenying Feng
Professor, Department of Computing &
Information Systems
Department of Mathematics
Trent University, Peterborough,
ON Canada K9J 7B8

Dr. Thomas Wischgoll
Computer Science and Engineering,
Wright State University, Dayton, Ohio
B.S., M.S., Ph.D.
(University of Kaiserslautern)

Dr. Abdurrahman Arslanyilmaz
Computer Science & Information Systems
Department
Youngstown State University
Ph.D., Texas A&M University
University of Missouri, Columbia
Gazi University, Turkey

Dr. Xiaohong He
Professor of International Business
University of Quinnipiac
BS, Jilin Institute of Technology; MA, MS,
PhD,. (University of Texas-Dallas)

Burcin Becerik-Gerber
University of Southern California
Ph.D. in Civil Engineering
DDes from Harvard University
M.S. from University of California, Berkeley
& Istanbul University

Dr. Bart Lambrecht

Director of Research in Accounting and Finance
Professor of Finance
Lancaster University Management School
BA (Antwerp); MPhil, MA, PhD
(Cambridge)

Dr. Carlos García Pont

Associate Professor of Marketing
IESE Business School, University of Navarra
Doctor of Philosophy (Management),
Massachusetts Institute of Technology (MIT)
Master in Business Administration, IESE,
University of Navarra
Degree in Industrial Engineering,
Universitat Politècnica de Catalunya

Dr. Fotini Labropulu

Mathematics - Luther College
University of Regina Ph.D., M.Sc. in
Mathematics
B.A. (Honors) in Mathematics
University of Windsor

Dr. Lynn Lim

Reader in Business and Marketing
Roehampton University, London
BCom, PGDip, MBA (Distinction), PhD,
FHEA

Dr. Mihaly Mezei

ASSOCIATE PROFESSOR
Department of Structural and Chemical
Biology, Mount Sinai School of Medical
Center
Ph.D., Eötvös Loránd University
Postdoctoral Training,
New York University

Dr. Söhnke M. Bartram

Department of Accounting and
Finance Lancaster University Management
School Ph.D. (WHU Koblenz)
MBA/BBA (University of Saarbrücken)

Dr. Miguel Angel Ariño

Professor of Decision Sciences
IESE Business School
Barcelona, Spain (Universidad de Navarra)
CEIBS (China Europe International Business
School).
Beijing, Shanghai and Shenzhen
Ph.D. in Mathematics
University of Barcelona
BA in Mathematics (Licenciatura)
University of Barcelona

Philip G. Moscoso

Technology and Operations Management
IESE Business School, University of Navarra
Ph.D in Industrial Engineering and
Management, ETH Zurich
M.Sc. in Chemical Engineering, ETH Zurich

Dr. Sanjay Dixit, M.D.

Director, EP Laboratories, Philadelphia VA
Medical Center
Cardiovascular Medicine - Cardiac
Arrhythmia
Univ of Penn School of Medicine

Dr. Han-Xiang Deng

MD., Ph.D
Associate Professor and Research
Department Division of Neuromuscular
Medicine
Davee Department of Neurology and Clinical
Neuroscience Northwestern University
Feinberg School of Medicine

Dr. Pina C. Sanelli

Associate Professor of Public Health
Weill Cornell Medical College
Associate Attending Radiologist
NewYork-Presbyterian Hospital
MRI, MRA, CT, and CTA
Neuroradiology and Diagnostic
Radiology
M.D., State University of New York at
Buffalo, School of Medicine and
Biomedical Sciences

Dr. Roberto Sanchez

Associate Professor
Department of Structural and Chemical
Biology
Mount Sinai School of Medicine
Ph.D., The Rockefeller University

Dr. Wen-Yih Sun

Professor of Earth and Atmospheric
Sciences Purdue University Director
National Center for Typhoon and
Flooding Research, Taiwan
University Chair Professor
Department of Atmospheric Sciences,
National Central University, Chung-Li,
Taiwan University Chair Professor
Institute of Environmental Engineering,
National Chiao Tung University, Hsin-
chu, Taiwan. Ph.D., MS The University of
Chicago, Geophysical Sciences
BS National Taiwan University,
Atmospheric Sciences
Associate Professor of Radiology

Dr. Michael R. Rudnick

M.D., FACP
Associate Professor of Medicine
Chief, Renal Electrolyte and
Hypertension Division (PMC)
Penn Medicine, University of
Pennsylvania
Presbyterian Medical Center,
Philadelphia
Nephrology and Internal Medicine
Certified by the American Board of
Internal Medicine

Dr. Bassey Benjamin Esu

B.Sc. Marketing; MBA Marketing; Ph.D
Marketing
Lecturer, Department of Marketing,
University of Calabar
Tourism Consultant, Cross River State
Tourism Development Department
Co-ordinator, Sustainable Tourism
Initiative, Calabar, Nigeria

Dr. Aziz M. Barbar, Ph.D.

IEEE Senior Member
Chairperson, Department of Computer
Science
AUST - American University of Science &
Technology
Alfred Naccash Avenue – Ashrafieh

PRESIDENT EDITOR (HON.)

Dr. George Perry, (Neuroscientist)

Dean and Professor, College of Sciences

Denham Harman Research Award (American Aging Association)

ISI Highly Cited Researcher, Iberoamerican Molecular Biology Organization

AAAS Fellow, Correspondent Member of Spanish Royal Academy of Sciences

University of Texas at San Antonio

Postdoctoral Fellow (Department of Cell Biology)

Baylor College of Medicine

Houston, Texas, United States

CHIEF AUTHOR (HON.)

Dr. R.K. Dixit

M.Sc., Ph.D., FICCT

Chief Author, India

Email: authorind@computerresearch.org

DEAN & EDITOR-IN-CHIEF (HON.)

Vivek Dubey(HON.)

MS (Industrial Engineering),

MS (Mechanical Engineering)

University of Wisconsin, FICCT

Editor-in-Chief, USA

editorusa@computerresearch.org

Sangita Dixit

M.Sc., FICCT

Dean & Chancellor (Asia Pacific)

deanind@computerresearch.org

Suyash Dixit

(B.E., Computer Science Engineering), FICCTT

President, Web Administration and

Development , CEO at IOSRD

COO at GAOR & OSS

Er. Suyog Dixit

(M. Tech), BE (HONS. in CSE), FICCT

SAP Certified Consultant

CEO at IOSRD, GAOR & OSS

Technical Dean, Global Journals Inc. (US)

Website: www.suyogdixit.com

Email: suyog@suyogdixit.com

Pritesh Rajvaidya

(MS) Computer Science Department

California State University

BE (Computer Science), FICCT

Technical Dean, USA

Email: pritesh@computerresearch.org

Luis Galárraga

J!Research Project Leader

Saarbrücken, Germany

CONTENTS OF THE ISSUE

- i. Copyright Notice
 - ii. Editorial Board Members
 - iii. Chief Author and Dean
 - iv. Contents of the Issue
-
1. The Efficiency of Islamic Banks in North Africa: Analysis with the Non-Parametric Approach DEA (Window Analysis). *1-9*
 2. Contributing Factors of Inland Investment. *11-23*
 3. The Governance and the Social Performance of Banks: Comparison between the Model Germano-Nippon and the Model Franco-Italian. *25-34*
-
- v. Fellows
 - vi. Auxiliary Memberships
 - vii. Process of Submission of Research Paper
 - viii. Preferred Author Guidelines
 - ix. Index



The Efficiency of Islamic Banks in North Africa: Analysis with the Non-Parametric Approach DEA (Window Analysis)

By Boudabbous Sami & Yosra Elhaj Ali

University of Sfax, Tunisia

Summary- In this work, we are trying to examine the efficiency of Islamic banks in North Africa. This study concerns eight Islamic banks belong to five countries. The data are collected from the official websites of these banks for a period of time extends between 2010 and 2014 (five years). We appeal to the method of analysis by financial ratios and the DEA, specially the Window Analysis.

In the light of the analyse by the financial ratios, we note that the performance of Islamic banks in North Africa is in decline. According to the non-parametric method DEA, the only efficient bank C is the Algerian bank al-Salam. But, the Islamic Bank of Mauritania was in last row between the Islamic banks in North Africa with increasing returns to scale.

Keywords: *islamic banks, north africa, efficiency, financial ratios, the method DEA.*

GJMBR - C Classification : *JEL Code : E50*



Strictly as per the compliance and regulations of:



The Efficiency of Islamic Banks in North Africa: Analysis with the Non-Parametric Approach DEA (Window Analysis)

Boudabbous Sami^α & Yosra Elhaj Ali^σ

Summary- In this work, we are trying to examine the efficiency of Islamic banks in North Africa. This study concerns eight Islamic banks belong to five countries. The data are collected from the official websites of these banks for a period of time extends between 2010 and 2014 (five years). We appeal to the method of analysis by financial ratios and the DEA, specially the Window Analysis.

In the light of the analyse by the financial ratios, we note that the performance of Islamic banks in North Africa is in decline. According to the non-parametric method DEA, the only efficient bank C is the Algerian bank al-Salam. But, the Islamic Bank of Mauritania was in last row between the Islamic banks in North Africa with increasing returns to scale.

Keywords: *islamic banks, north africa, efficiency, financial ratios, the method DEA.*

INTRODUCTION

The global economy has the Islamic economy, which is recognized for all the world by the prohibition of RIBA. This concept Arabic translated the interest imposed on the borrowing and lending.

At the beginning of the twentieth century, the Islamic economy has been appeared in order to release the economies of the countries Muslims, but by the time the Islamic banks are also found in non-Muslim countries. The Islamic economy indicates the existence of an economy based on the Islamic doctrine.

An Islamic Bank applies the principles of the Sharia in all their financial transactions, banking and investment. Without doubt, it subject to the supervision of the central bank.

The Islamic banks have its own rules and pillars that make them different from the conventional banks. Historically, the first Islamic Bank was founded in Egypt in 1963 at the initiative of an economist called Ahmad al-NAGGAR.

Islamic finance is based on the conviction of the Riba (wear), the prohibition of Gharar (speculation) and the Maysir (uncertainty), the financing of projects in sectors lawful, the obligation of sharing of profits and losses, and finally the principle of affiliation investments to tangible assets of the real economy. Baller (2005)

sees that the Islamic finance earlier as modern because it introduces a new form of "governance partnership".

Islamic finance inspires its foundations of the Islamic law (*Shariah*), of the finance Anglo-Saxon, of the Koran (*Qur'an*), the Islamic jurisprudence (*Fiqh*) and of the Islamic tradition (*Sunnah*).

We note that the studies are few who have taken the Islamic banks in North Africa in the study of the efficiency of Islamic banks. We will examine the efficiency of Islamic banks in North Africa via the method DEA by Window Analysis. Our contribution lies in the analysis of the efficiency by ratios to the company of the analysis via DEA by Window Analysis instead the approach DEA standard. This point brings a particular asset to our work.

Our research focuses on the efficiency of Islamic banks in North Africa with the method of analysis by financial ratios and the method DEA. In what follows, we will put the light in the first time on the term efficiency, and then on the studies that deal the efficiency of Islamic banks according to the DEA (specially Window analysis). By the following, we will treat empirically the efficiency of Islamic banks in Africa to north.

I. A REVIEW OF THE LITERATURE

The Islamic bank differs from the classic bank by several criteria. The Islamic Bank offers products and of financial operations adapt to the principles of the shariah. These Islamic products are deposits of investment, certificates of investment or savings accounts.

The products of the Islamic Bank meet the needs of the customer. Since, the Islamic Bank offers the client several options such as: murabaha (cost-plus), Musharakah (Joint Venture), Ijara (leasing). Accordingly, this bank has the Islamic options such as letter of guarantee, letter of credit and the cards covered.

Primarily, the Islamic Bank has a board Shariah. This Council is composed of experts in Islamic law in order to consult, in a continuous manner, as regards all the new banking operations.

Author α: Professor in Management Science, University of Sfax, Tunisia.

Author σ: PHD candidate in the Faculty of Economic and Management Sciences Sfax. e-mail : elhajaliyosra@yahoo.fr

Islamic banks have three modes of financing ; the sharing of profits and risks, leasing, the loan Islamic.

a) *The main Islamic instruments*

The mobilization and the use of capital in the Islamic finance are based on different legal concepts to those of traditional banks (Muhammad, 1981).

- ✚ **Mudaraba:** it refers to the financing of an investment by the Bank with the sharing of losses and profits according to a predetermined rate.
- ✚ **Musharaka Mizaka:** it refers to the co-financing by the Bank and the proponents without forgetting with sharing of losses and profits according to a rate set at the beginning.
- ✚ **Kard Hasan:** it refers to a loan without interest but the bank charges real are borne by the borrower.
- ✚ **Bay'mu'ajjal** the acquisition of an asset, which presents a need for the client, by the bank then resale to its client with compensation delayed.
- ✚ **Bay As-salam:** the acquisition of an asset of the customer by the bank then resale to term to the latter.
- ✚ **Ijara:** the acquisition of an asset by the Bank in order to rent to its client in respect of a commitment of sale to term.
- ✚ **Murabaha:** the loan without interest in the short term with banking margin defined.
- ✚ **Sukuk:** the bond borrowing backed with a leasing contract.

❖ The concept of efficiency

For Allen and Anoop (1996), the term efficiency has a broader meaning than the effectiveness. The term efficiency includes considerations of cost and efficiency.

For Windham (1988), "The efficiency is a concept which combines two other since it puts in report the effectiveness for the resources committed to achieve the expected results." Therefore, the efficiency combines the effectiveness and the means employed to achieve the goals of the Bank. In another way, the achievement of the goal with lesser costs generates a bank efficiently. Also, the Bank is called efficiently by report a different bank, if it achieves the best results with the same means. Accordingly, the efficiency is measured by the relationship between the effectiveness and the cost.

The efficiency-x refers to the overall efficiency. The overall efficiency encompasses productive efficiency, the efficiency to the scale, the EFFICIENCY The allocative and/or technical efficiency.

Weill (2006) stresses that productive efficiency is linked to the concept of the production function. The production function refers to the ratio between the quantities of the factors of production X_i and the quantities produced y_j .

Kopp, Osiewalski, and Steel (1994) emphasize that productive efficiency refers to the ability to produce a specified output at a minimum cost.

Specifically, the efficiency indicates to what point an organization uses its resources well to produce goods and services. Consequently, the term efficiency depends on the resources (human and financial, equipment, materials,..., goods and services products) in order to meet the needs of a "customer".

Amara and Romain (2000) have stressed that the term efficiency means "a production unit is called efficient if, from the basket of inputs that it holds, it produces the maximum output possible."

❖ The forms of efficiency

There are three forms of efficiency: a technical efficiency, a allocative efficiency and a efficiency at scale.

• Technical Efficiency

The concept of technical efficiency finds its origin in the theoretical work of fundamental Debreu (1951), Koopmans (1951) and Farrell (1957).

Koopmans (1951) it is the first which has given a formal definition of the technical efficiency: "a producer is technically efficient if the increase of any output requires the reduction of at least one other output or the increase of at least one input, and if a reduction of any input requires elevation of at least one other input or the reduction of at least one output. "

According to Weill (2006), the technical efficiency means that an organization is technically efficient if its activities the located exactly on the border of production.

Also, the technical efficiency "returns to the ability to avoid losses by producing as much output that allows the use of inputs or by using the least possible inputs such that the allows the production of outputs" (Harold, Lovell and Schmidt, 1993).

• The allocative efficiency or price

The second form of efficiency it is the efficiency price. An organization is efficient allocativeness if she chooses the productive combinations the least expensive, that is to say that it uses the factors of production in the exact proportions, given their market price.

Otherwise, this form designates that the organization reduces its total costs of production, it also promotes the level of this last which is socially optimal (including by a policy of selling prices or pricing, appropriate).

Therefore, the efficiency award allows you to grant a complementary information on performance.

Another side, the inefficiency price results from decisions of production under optimal thanks to estimates of relative prices to outputs or to inputs, therefore the production would be more expensive by

report a production with the factors of productions in optimal proportions.

Otherwise, an organization is called inefficient allocatively provided that it uses of the factors of production in proportions incorrect in the light of their price.

Pinteris (2002) stresses that the EFFICIENCY The allocative presents the capacity of leaders to choose among the production program the more efficient technically, what engendre the profit the Most High, or the possibility to choose the inputs in the Percentages optimal.

- The efficiency at the scale

The efficiency to scale it is the case of an organization in a situation of perfect competition, and which operates at an appropriate scale, this means that its marginal cost must be equal to the market price of its product (Chaffai, 1989).

Otherwise, an organization is efficiently to the scale on the condition that it realizes to an optimum size given the market where it operates.

By contrast, an organization is inefficient at the scale at the condition that it did not happen to maximize its profit and subsequently its marginal cost will be separate from the price of the market.

- ❖ Few empirical studies concerning the efficiency of Islamic banks with the DEA method

To study the efficiency of Islamic banks, some researchers make recourse to the method dea with the financial ratios. The existing studies concerning the efficiency of Islamic banks are classified in two groups. The first group includes studies that assess the efficiency of Islamic banks using the financial ratios. Some of these studies have compared their results with conventional banks. The second group of studies focuses on the effectiveness of the banks by approaches for analysis of border.

Brown (2003) has done a research on the efficiency of Islamic banks over a period extending from 1998 to 2001. The sample includes banks belong to the 19 countries of Asia, the Middle East and North Africa. It note that the Islamic banks Iranian, Yemeni and Brunei Darussalam are more efficient that the Islamic banks in Indonesia and Sudan.

Sufian and Noor (2009) have analyzed the efficiency of Islamic banks between 2001 to 2006. The banks belong to the 16 countries of Asia, the Middle East and North Africa (MENA). They emphasize that the Islamic banks of the MENA region compared to the Islamic banks Asian.

Nor Hayati et al. (2011) have assessed the efficiency of Islamic banks between 2003 and 2009 in 25 countries. They stressed that the Islamic banks located in high-income countries are more efficient than the other banks.

The first study concerning the efficiency of Islamic banks with the non-parametric approach DEA is Yudistira (2003).

Brown and Skully (2005) examined the effectiveness of 36 Islamic banks belong to 19 different countries. They have found that at the regional level, Islamic banks of the Middle East were the most effective and then Asia and Africa.

Johnes et al. (2009) stress according to its study on the Gulf countries between 2004 and 2007 that, via the method DEA, the conventional banks are more efficient than the Islamic banks.

In contrast, Grigorian and Manole, (2005) noted that conventional banks do not exceed the Islamic banks in the scores of efficiency.

We note that the studies on the efficiency of Islamic banks are rare who have taken the Islamic banks of the countries of North Africa. This point brings a particular asset to our work.

II. THE METHODOLOGY

The methods used for the determination of the efficiency of financial institutions and banks can be classified into two groups: the methods parametric and non-parametric methods.

Berger and Humphrey (1997) have proposed two empirical methods to measure efficiency. The first method is called induced parametric by Aingner and Al(1977) and the second is nonparametric induced by Charnes er et al., (1978).

For our work, we will choose the non-parametric method dea with the method of analysis by the financial ratios in order to examine the efficiency of Islamic banks in North Africa.

a) *Data Envelopment Analysis (DEA)*

The non-parametric method DEA is also called DMUs (decision-making units). This method allows you to evaluate the performance of the firms on the basis of multiple outputs and inputs.

Otherwise, the method allows DEA to assess the efficiency of the firms by transforming inputs (resources) in outputs (benefits).

The method DEA (DMU) has been extended by Charnes et al. (1978, 1981) in order to assess the efficiency of a U.S. federal program for the allocation of resources to schools. Via the time, the use of the DEA is widespread in the other public organizations. The DEA method gives a score to the efficiency of organizations.

Banker et al. (1984) show that the measure of the efficiency in the search for Charnes et al (1978) can be decomposed into two: the technical efficiency and the efficiency of scale.

The score for the efficiency of each firm is counted by report to a border of efficiency. The firms that are located on the border have a score of 1 (or 100%). Therefore, the firms that have a lower score to

100% are located under the Border, and it is impossible to find firms on the border of efficiency.

The firms that are located on the border of efficiency are used of peers (or benchmarks) to inefficient firms. These peers are attached to the best practice visible. Therefore, the method DEA is a technique of benchmarking.

In another way, the firms that are located under the Border (have a lower score to 100%) have a margin for improvement of their performance.

The DEA technical is a method linear programming. This method limits the comments via plans to build a border. The organizations that reside on this border are efficient, on the other hand, the organizations which are located under this border are inefficient. The organization which is located in the border of efficiency does not reflect that it produces a maximum level of outputs from a given level of inputs although this situation means that this organization presents the best practice of the production of outputs and constitute a reference for the other organizations.

The approach Window analysis is an extension of the DEA method which has been introduced by Klopp (1985). The approach Window analysis gives a vision on the trend (the increase or decrease) of the efficiency in the time (Charnes et al., 1994 and Cooper et al., 2007). In this approach, each unit of decision is distinct from a duration of time to another.

i. *Description of the data and definition of variables*

The data used come mainly from the annual financial statements issued by the banks of our sample.

The period covered by our study extends from 2010 until 2014 (five years). Our period of study relates to eight banks are located in North Africa operational throughout this period, namely:

1. BZ : Bank Zitouna (Tunisian bank).
2. The Bank Al Baraka (Tunisian bank).
3. BAMIS : Mauritanian bank.
4. The Bank Al Baraka (Algerian bank).
5. The Bank Alsalam (Algerian bank).
6. the Islamic Bank of Faisal of Egypt.
7. the Islamic Bank of Faisal of Sudan.
8. The Bank Al Baraka of Egypt.

ii. *Definition of variables*

In order to measure the efficiency of Islamic banks in North Africa we use the analysis by ratios. The founding studies concentrated on the analysis of the efficiency of the banks have had recourse to certain ratios in order to examine the efficiency of banks (Farrell, 1957).

Recent studies have made call to ratios of profitability, efficiency, cost as (Qureshi & Shaikh, 2012), and we are going to add the ratios of risk.

The ratios are summarized in the table below.

The name of the variable	Definition
The Cost Ratio 1	Personal load / Total Assets
The Cost Ratio 2	Interest expenses / Total Deposit
The ratio of cost 3	(provisions+Capital) / Total Assets
The risk ratio 1	Credit Total / Total Assets
The ratio of risk 2	Total deposits / Total Assets
The ratio Profit	Profits / Total of assets
The income ratio	Commissions / Total Assets

b) *Analysis by the Financial Ratios*

Moreover, we will classify the Islamic banks in North Africa according to the average of the Ratios by year.

Table 1 : The classification of banks according to the average of the Ratios by Year

Year	Average Cost Ratio 1	Average Cost Ratio 2	Average Cost Ratio 3	Average Risk ratio 1	Medium risk 2	Income Average	Average ROA
2010	0,004472597	0,020095872	0,025268348	0,346814442	0,657706655	0,003466211	0,371675601
2011	0,006403111	0,041468257	0,026844798	0,35294257	0,599608611	0,004134146	0,270895782
2012	0,007051709	0,021868407	0,027176397	0,415325066	0,720776866	0,004031999	0,218954483
2013	0,009581117	0,023986968	0,026999372	0,444916175	0,769735534	0,009973922	0,180868064
2014	0,005968795	0,07855045	0,027772832	0,373368299	0,622325447	0,00621009874	0,234009666

According to the table above, we find that the Islamic banks in North Africa have experienced an increase in the ratios of the cost 1, which is explained by the increase in personal charges with a percentage fort that the increase in the total of active across the five years of our study.

The ratio of the cost 2 has experienced an increase in 2011 and 2014 and almost the ratios are equal between 2010, 2012 and 2013. Therefore, the expenses of interests have experienced an increase with a strong proportion that the increase in total filings in 2011 and 2014.

The ratio of the cost 3 has experienced a slight increase from one year to another. Then, the capital, the total of assets and provisions have experienced a slight increase except in 2013 these variables have experienced a slight decrease.

Islamic banks in North Africa have experienced an increase in the Risk ratio 1 between 2010 and 2013, which is explained by the increase in the total of credit by Report the total of the deposits. But, this ratio has seen a decrease in 2014 by Report 2013.

In addition, the ratio of Risk 2 experienced a decrease between 2010 and 2011. And then this ratio has experienced an increase except in 2014 Islamic banks in North Africa a decrease in the ratio of risk.

The ratio of income has experienced an increase between 2010 and 2013.

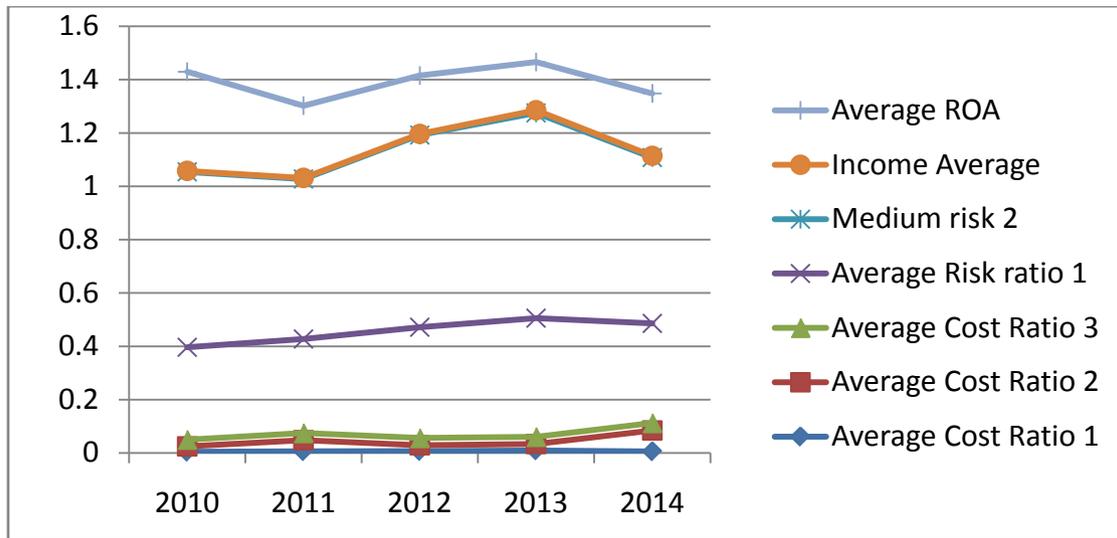
According to these results, we note that, in 2010, the average of the ratio of Risk 2 (total Depot / total assets) occupies the first rank with a percentage of 65.77%, then the average of the ratio of profit (ROA) is located in the second level.

Islamic banks in North Africa have experienced an increase in the Risk ratio and the cost ratio during the period 2010-2013, which creates a slight decrease of income and profit. This increase of the Ratios costs and risks is explained by a strong increase in expenses and expenditure by Report The increase in deposits and total assets.

By against the Islamic banks catch up with their situation in 2014 and record an increase performance

ratios and a parallel decrease of risk ratios and ratios of costs. Therefore, the Islamic banks are more efficient in 2014.





The Graph 1 : The variation of financial ratios between 2010 and 2014

According to the graph, the ratio Profit (ROA) of Islamic banks in North Africa has experienced a decrease in 2011. Then, this ratio has seen an increase in 2012 and 2013. By contrast, this ratio has seen a decrease but with a percentage remains greater than the year 2010.

The Cost Ratio 3 has experienced an increase in 2011, then a decrease in 2012. Subsequently, we observe a slight increase in 2013. But, in 2014, the ratio of cost 3 increases to exceed the levels in the last three years.

The Cost Ratio 2 has seen an increase in 2011, then a decrease in 2012. Subsequently, this ratio increases slightly to achieve in 2014 a level superior to other years.

The risk ratio 2 has seen a decrease in 2011, then an increase in 2012 and 2013. But, this ratio of risk has been decreased in 2014. Therefore, the Islamic

banks in North Africa have experienced a decrease in average of the Risk ratio 2 in 2014 with a decrease of average of the ratio of profit and the ratio of income.

The risk ratio 1 has seen a slight increase in 2011, 2012 and 2013. But, this ratio has seen a decrease in 2014.

Also, the ratio of income has experienced a slight decrease in 2011, then he starts to increase in 2012 and 2013. In 2014, the ratio of income has seen a remarkable reduction but with an average greater than the year 2010. This variation is explained by the decrease in the banking commissions.

The Cost Ratio 1 has experienced a slight variation from one year to another. This ratio has seen an increase in 2011,2012 and 2013, then a decrease in 2014. This decrease is explained by the decrease in the personal charges.

Table 2 : The classification of banks according to the average of the Ratios by bank

	Average cost 1	Average cost 2	Average cost 3	Medium risk 1	Medium risk 2	Income Average	Profit Average
B1: Albaraka Tunis	1	7	1	2	2	2	2
B2: Bamis Mouritanie	2	4	3	5	3	4	8
B3: Zitouna Tunis	3	6	6	3	4	5	1
B4: Albaraka Algeria	4	8	8	8	1	8	7
B5:Alsalam Algeria	5	1	5	7	6	7	5
B6: Faisal Islamic Bank of Egypt	6	2	7	1	8	1	3
B7: Albaraka Egypt	7	5	4	4	7	6	4
B8: Faisal bank (Sudan)	8	3	2	6	5	3	6

According to this table, the Bank Zitouna occupies the first rank in ratio of profit, and then the bank Al Baraka occupies the second rank. In contrast, the Bank Wava Mauritanian Islamic ranks last in between the Islamic banks in North Africa.

The Bank Al Baraka of Algeria occupies the last row for the cost ratio 3 and the cost ratio 2. By contrast, the BANK AL Baraka (Tunis) occupies the first rank for the cost ratio 3. Also, this bank occupies the first rank for the cost ratio 1. But, the Bank al-Salam of Algeria occupies the first rank for the cost ratio 2.

The Bank Al Baraka of Algeria holds the rank first in term the risk ratio 2. On the other hand, the Islamic Bank Faisal of Egypt occupies the last row between the Islamic banks in North Africa.

The Bank Faisal Islamic of Egypt occupies the first rank at the level the ratio of income. Therefore, this bank has a percentage the largest of the commissions (by Report the total of active) by report the other banks in North Africa.

The Islamic bank Faisal of Egypt occupies the first rank for the ratio of risk 1. In against part, the BANK AL Baraka of Algeria occupies the last row.

c) *The results of estimates of score of efficiency by the method (DEA)*

In the framework of this method, technical efficiency (and) a measure of the ability to produce the maximum amount of goods with a given level of factors of production, or the capacity to use the minimum of factors of production to produce a given quantity of goods. Technical Efficiency decomposes also in pure efficiency Technical (EFA) and the efficiency of scale (EE), which are determined by the model with yields of scale variables. This last efficiency measure the level of returns to scale in which the Bank operates (increasing returns to scale or decreasing).

The model is estimated using the Stata software and the results are presented in the table below.

Table 3 : The scores of efficiency of Islamic banks in North Africa

	Technical Efficiency	Technical Efficiency pure	Efficiency of Scale
B1: Albaraka Tunis	61.3%	90.5%	67.7%
B2: Bamis Mouritanie	58.4%	66.8%	87.5%
B3: Zitouna Tunis	82.9%	84.8%	97.7%
B4: Albaraka Algeria	69.74%	72.02%	96.77%
B5:Alsalam Algeria	100%	100%	100%
B6: Faisel Islamic Bank of Egypt	84.8%	100%	84.8%
B7: Albaraka Egypt	87%	88.8%	97.9%
B8: the Islamic Bank Faisal (Sudan)	79.83%	81.64%	97.7%
Average	77.99%	85.57%	91.11%

The Islamic bank al-Salam of Algeria has the most high score of technical efficiency between the Islamic Banks of North Africa. Therefore, the Bank al-Salam presents the bank the more technically efficient between the Islamic banks in North Africa.

According to the table, this Bank St well managed. The Bank Algerian Islamic al-Salam is located in the border of efficiency does not reflect that it produces a maximum level of outputs from a given level of inputs although this situation means that this Bank presents the best practice of the production of outputs and constitutes a reference to the other banks in North Africa.

The Bank Zitouna (Tunisian Bank), the BANK AL Baraka (Tunisian Bank), the BAMIS: Mauritanian bank, the BANK AL Baraka (Algerian bank), the Islamic Bank of Faisal of Egypt, the Islamic Bank of Faisal of Sudan and the Islamic Bank of Egypt AL Baraka are located under the Border. Therefore, they are of Islamic Banks inefficient in North Africa.

According to the table, in the second row, we find the Islamic Bank Al Baraka of Egypt with a score of

87%. In contrast, the Bank Wava Mauritanian Islamic occupies the last row. Then, this bank is much less efficient with a score 58.4%.

The Bank Egyptian Islamic Al Baraka has a pure efficiency of 88.8% and an efficiency of scale of 97.9%. This bank evolves in a situation of decreasing returns to scale (DRS). In progressing the way in which the Bank is managed, 11.2% (100 - 88.8) of *inputs* can be saved. By adjusting the size of the Bank, the consumption of *inputs* may be reduced to 2.1% (100 - 97.9).

The Islamic bank Faisal of the Sudan has a pure efficiency of 81.64% and an efficiency of scale of 97.7%. This bank evolves in a situation of decreasing returns to scale (DRS). In progressing the way in which the Bank is managed, 18.36% (100 - 81.64) of *inputs* can be saved. By adjusting the size of the Bank, the consumption of *inputs* may be reduced to 2.3% (100 - 97.7).

The Bank Egyptian Islamic Faisal has a pure efficiency of 100% and an efficiency of scale of 84.8%. This bank evolves in a situation of decreasing returns to scale (DRS). This bank is well managed. By adjusting

the size of the Bank, the consumption of *inputs* can be reduced by 15.2% (100 - 84.8).

The Tunisian Bank Al Baraka has a pure efficiency of 90.5% and an efficiency of scale of 67.7%. This bank evolves in a situation of decreasing returns to scale (DRS). In progressing the way in which the Bank is managed, 9.5% (100 - 90.5) of *inputs* can be saved. By adjusting, the consumption of *inputs* can be reduced by 32.3% (100 - 67.7).

The Algerian bank Al Baraka has a pure efficiency of 72.02% and an efficiency of scale of 96.77%. In progressing the way in which the Bank is managed, 27.98% (100 - 72.02) of *inputs* can be saved. By adjusting the size of the Bank, the consumption of *inputs* may be reduced to 3.23% (100 - 96.77).

The Tunisian Bank Zitouna has a pure efficiency of 84.8% and an efficiency of scale of 97.7%. In progressing the way in which the Bank is managed, 15.2% (100 - 84.8) of *inputs* can be saved. By adjusting the size of the Bank, the consumption of *inputs* may be reduced to 2.3% (100 - 97.7).

The Islamic Bank Al Mauritanian Wava has a pure efficiency of 66.8% and an efficiency of scale of 87.5%. This bank evolves in a situation of increasing returns to scale (IRS). In progressing the way in which the Bank is managed, 33.2% (100 - 66.8) of *inputs* can be saved. By adjusting the size of the Bank, the consumption of *inputs* can be reduced by 12.5% (100 - 87.5).

Islamic banks which are the Islamic Bank Al Mauritanian Wava, the Algerian bank Al Baraka, the Tunisian Bank Zitouna, the Islamic Bank Faisal (Sudan), the BANK AL Baraka Egypt can advance their performance. These Islamic banks must analyze the practices of banks Al Baraka (Tunis), Al Salam (Algeria) and Faisal (Egypt) which are identified as his peers of reference. To be a peer (or a *benchmark*), the Islamic Bank must have a pure efficiency of 100%.

The Score Average TE during the entire period of study (2010-14) is equal to 77.99%, which indicates that the Islamic banks in North Africa would have been able to produce the same quantity of output achieved with only 77.99% of the inputs used to where a loss of 22.01% of resources.

III. CONCLUSION

Throughout this chapter, we are trying to put the light on the term efficiency, the instrument of the Islamic Bank and the studies which deal with the efficiency of Islamic banks with the method DEA. The overall efficiency decomposes in technical efficiency, efficiency, pure and the efficiency to scale.

Empirically, we are trying to examine the efficiency of Islamic banks in North Africa with Algeria, Tunisia, Egypt, Sudan and Mauritania (there is no Islamic banks in Libya and Morocco). In Mauritania the

Second Islamic bank has closed its doors by the central bank. Our sample consists of eight Islamic banks and the period of study is spread between 2010 and 2014. To test the efficiency of Islamic banks in North Africa we appeal to the method of analysis by financial ratios and the method DEA (a method non parametric).

Empirically, we find a score of technical efficiency (TE) medium during the entire period of study (2010-14) is equal to 77.99%, which indicates that the Islamic banks in North Africa would have been able to produce the same quantity of output achieved with only 77.99% of the inputs used to where a loss of 22.01% of resources.

The limits of our work are the reduced number of Islamic banks in Afrique in the north because of the policy adopted long time, also the period of study is short since there are banks open their doors newly. We choose just the banks which are totally Islamic.

Our work can be a point of departure for research regarding the Islamic banks in the Arab world or well on the ground in Africa.

BIBLIOGRAPHIES

1. Aigner D.J., Lovell C.A.K. and Schmidt P., (1977), "Formulation and estimation of stochastic frontier production models", *Journal of Econometrics*, pp. 21-37.
2. Allen, Linda, and Rai Anoop. (1996), "Operational Efficiency in Banking: An International Comparison.", *Journal of Banking and Finance*, 20(4): 655-672.
3. Amara and Romain (2000), "measure of technical efficiency: Review of the Literature", *Center for Research in agri-food economy, University of Laval*, 34p.
4. Berger, A. N. and D. B. Humphrey (1997), "Efficiency of Financial Institutions: International Survey and Directions for Future Research", *European Journal of Operational Research*, 98, 175-212.
5. Brown B. K. (2003), "Islamic banking Comparative Analysis. The Arab Bank " *Review*, 5(2), 43-50.
6. Brown K. And Mr. Skully (2005), " Islamic Banks: A Cross-Country study of cost efficiency performance, accounting, Trade and Finance ", the *Islamic Perspective Journal*, 8(1-2), 43-79.
7. Chaffai (1989), "an estimate of the borders of production and of the technical inefficiency," *Economics and forecasting*, n°91, 67-73.
8. Charnes, A., Cooper, W. and Rhodes, E. (1978), "Measuring the efficiency of decision making units. European", *Journal of Operational Research*, 2, 429-444.
9. Charnes, A., and Cooper, W. W. (1984), "Some Models for Estimating technical and Scale inefficiencies in Data Envelopment Analysis ", *Management Science*, 30(9), 1078-92.

10. Charnes, A., Cooper, W.W., Lewin, A.Y. And Seiford, L.M. (1994), "Data Envelopment Analysis: Theory, Methodology and Applications. Boston", Kluwer Academic Publishers.
11. Cooper W. Seiford L. Mr., and Tone K. (2007), "Data Envelopment Analysis: A comprehensive text with models, applications, references and DEA-solver software ", (2nd ed.). New York: Springer Science + Business Media.
12. Farrell Michael (1957), "The measurement of productive efficiency.", *Journal of the Royal Statistical Society*, 120(3): 253-281.
13. Grigorian D. and Manole v. (2005), "A Cross-Country nonparametric analysis of Bahrain's banking system. International Monetary Fund ", Working Paper, WP 05/117.
14. Harold, Fried O., Knox C. A. Lovell and Shelton S. Schmidt (1993) "The measurement of productive efficiency: Techniques and Applications", Oxford: Oxford University Press.
15. Johnes, J., Izzeldin, M., and Pappas, V. (2009), "The efficiency of Islamic and conventional banks in the Gulf Cooperation Council (GCC) Countries: An analysis using financial ratios and Data Envelopment Analysis. ", . Working Paper.
16. Klopp, G. A., (1985), " The analysis of the efficiency of productive systems with multiple inputs and outputs ", Ph.D. dissertation, University of Illinois, Chicago.
17. Koopmans, Tjalling C. (1951), "An analysis of production as an efficient combination of activities: In Activity analysis of production and Allowance ", ed. Thalling C. Koopmans, 33-97. New York: John Wiley.
18. Kopp, Gary, Jacek Osiewalski, and Mark Steel. (1994), "Hospital efficiency analysis through Individual effects: a Bayesian approach. ", Tilburg University Center for Economic Research Discussion Paper 1994-47.
19. Nor Hayati, A., Mohamad Akbar, N. and Fadzlan, S. (2011) "Measuring Islamic banks efficiency: the case of world Islamic banking sectors.", MPRA, (29497).
20. Qureshi, Mr. A., and Shaikh, M. (2012), "Efficiency of Islamic and conventional banks in Pakistan: a non-parametric approach. International", *Journal of Business and Management*, 7(7), 40-50.
21. Sufian, F. and Noor, M.A.N.M. (2009), "The Determinants of Islamic bank's efficiency changes: Empirical Evidence from the MENA and Asian countries Islamic banking sectors," *International Journal of Islamic and Middle Eastern Finance and Management*, 2(2), 120-138.
22. Weill Laurent (2006), "Foreign Ownership and technical efficiency of banks in the countries in transition: an analysis by the method DEA. ", *Economic Review*, 57(5): 1093-1108.
23. Windham, Douglas M. (1988), "effectiveness indicators in the Economic Analysis of Educational Activities Oxford and New York: Pergamon Press. ".
24. Yudistira, D. (2003), "Efficiency in Islamic banking: an Empirical Analysis of 18 banks. ", Department of Economics, Loughborough University. [online] Available: [Http://129.3.20.41/eps/fin/papers/0406/0406007.pdf](http://129.3.20.41/eps/fin/papers/0406/0406007.pdf) Banker et al. (1984) Banker, R.D.

ANNEXS

The variables of inputs and outputs of the DEA method

Inputs	Outputs
Interest expenses	Total Vote
The commissions	Personal load
Capital assets	Total of assets
Provisions	Deposit Total



This page is intentionally left blank



GLOBAL JOURNAL OF MANAGEMENT AND BUSINESS RESEARCH: C
FINANCE

Volume 16 Issue 5 Version 1.0 Year 2016

Type: Double Blind Peer Reviewed International Research Journal

Publisher: Global Journals Inc. (USA)

Online ISSN: 2249-4588 & Print ISSN: 0975-5853

Contributing Factors of Inland Investment

By Malik Shahzad Shabbir

University of Lahore, Pakistan

Abstract- Investment is a catalyst for the economic growth, and the efforts to explore the factors catalyzing investment, whether domestic or foreign, public or private, are unstoppable. The present study attempts to investigate empirically, the factors responsible for shaping up domestic investment in the middle income Asian countries. We use a sample of twelve countries and the data extends over a period of 31 years ending at 2010. We employ empirical Bayesian approach for analysis, after undergoing the preliminary testing of data through panel unit root test, redundancy test and panel co-integration. The results suggests that domestic investment is positively determined by lagged investment, real GDP per capita growth, domestic credit to private sector, domestic saving, trade and government expenditures whereas a negative relationship of domestic investment is observed with inflation and interest rate. Findings of the study provide a torch to the policy makers who intend to boost domestic investment for attaining higher growth rates.

Keywords: *economic growth, domestic investment, middle income Asian countries, government expenditures.*

GJMBR - C Classification : *JEL Code : G24*



Strictly as per the compliance and regulations of:



Contributing Factors of Inland Investment

Malik Shahzad Shabbir

Abstract- Investment is a catalyst for the economic growth, and the efforts to explore the factors catalyzing investment, whether domestic or foreign, public or private, are unstoppable. The present study attempts to investigate empirically, the factors responsible for shaping up domestic investment in the middle income Asian countries. We use a sample of twelve countries and the data extends over a period of 31 years ending at 2010. We employ empirical Bayesian approach for analysis, after undergoing the preliminary testing of data through panel unit root test, redundancy test and panel co-integration. The results suggests that domestic investment is positively determined by lagged investment, real GDP per capita growth, domestic credit to private sector, domestic saving, trade and government expenditures whereas a negative relationship of domestic investment is observed with inflation and interest rate. Findings of the study provide a torch to the policy makers who intend to boost domestic investment for attaining higher growth rates.

Keywords: economic growth, domestic investment, middle income Asian countries, government expenditures.

I. INTRODUCTION

Investment is an important component of aggregate demand in the economy and variations in investment have considerable long term effects on the economic strength of a country. Investment not only enhances the economic growth, but also promotes employment and provides livelihood to masses. The association of investment and long run economic growth is not only emphasized in the era of classical economists, but subsequently a number of studies are conducted to empirically test the importance of investment in experiencing higher growth rates (Kuznets (1973), McKinnon (1973), Shaw (1973); Barro and Lee (1994); Collier and Gunning (1999); Ndikumana (2000). All of these studies end up with a conclusion that investment is a strongly associated with economic growth. The investment-growth relationship in general and the Asian financial crises of late 1990's in particular have led to a mob of studies investigating the factors that bring about variations in the rate of investment in developing countries.

Investment, however, can be categorized into two major classes, i.e. foreign direct investment (FDI) and domestic investment (further divided into its public and private parts). There is a flood of studies that attempt to investigate the determinants of foreign direct investment in poor and middle income countries [see for example Juncki and Wunnava (2004); James and

Jiangyan (2010); Blonigen and Piger (2011)] However, to explore the factors explaining domestic investment in such countries is relatively less explored area. Although a variety of variables are suggested by various studies conducted elsewhere in the world to be the causing factors of investment in countries. In our study we endeavor to find the determining factors of domestic investment focusing a sample of middle income Asian countries.

Work on investment can be viewed in two distinct dimensions; one set of studies concentrate on analyzing the determinants of Foreign Direct investment (FDI) and another group of studies focused on the determinants of domestic investment. As far determinants of FDI are concerned, lots of studies are available ending up with different covariates of FDI (like Juncki and Wunnava (2004); Blonigen and Piger (2011), For the domestic investment, some other studies that focus on identifying the macroeconomic and financial factor are either narrower in their scope because of considering time series data only (Shahbaz et al. (2010); Shah et al. (2012) in Pakistan; Tan and Lean (2010), Tan et al. (2011) in Malaysia; Seruvatu and Jayaraman (2001) in Fiji or directed towards other geographical zones (Salahuddin et al. (2009) in Muslim developing countries). However, the area of middle income countries from Asia is generally ignored and demands attention of the researchers.

In order to fill this gap the present study is an attempt to add in literature a comprehensive work focusing on determining factors of domestic investment covering the horizons of financial and macroeconomic indicators by taking into account latest data and employing Empirical Bayesian approach on a sample of middle income Asian countries.

II. LITERATURE REVIEW

We are examining the existing empirical literature focusing the investment and its determining factors. The researchers study the role of a variety of factors including macroeconomic variables and financial market factors, in explaining the investment behavior. The studies not only differ from each other on the basis of factors included in the model and the estimation techniques applied but results arrived at also depict a spectrum of conclusions. The empirical literature on investment behavior in the developing countries seems to have focused on macroeconomic variables and financial variables. The findings of different studies on determinants of investment behavior are discussed hereunder in detail.

a) *Studies focusing on Macroeconomic Variables*

Investment practice in the preceding year gives an indication to the investors regarding economic climate in the country and thus, has a potential to affect investment positively. A similar relationship is observed in earlier studies based on empirics. Mileva (2008) finds a positive relationship between the two variables, in his study conducted on 22 transition economies. Salahuddin et al. (2009) reports a positive and significant effect of lagged investment, in their study on 21 developing countries from the Muslim regions. The results of the studies by Donwa and Agbontaen (2010) on Nigeria and Janice et al. (2011) are also consistent with the above-mentioned proposition. Taghavi (2011) while carrying out a study on a panel of India, China, Pakistan, Iran, Turkey, Indonesia and United Arab Emirates also concludes that lagged investment is a strong determinant of domestic investment.

An increase in the aggregate demand motivates firms to increase supply and this may require an increase in the installed capacity and thus stimulate investment. Wolf (2002) examines that GDP per capita significantly explains domestic investment, in a positive way, in South African developing countries. The studies of Tan and Lean (2010) in Malaysia, Salahuddin et al. (2009) on Muslim developing countries also find a positive impact of the variable on domestic investment.

Similarly studies by Oshikoya (1994) on African countries, Ghura and Goodwin (2000) on countries from Asia, Latin America and Sub Saharan Africa, Seruvatu and Jayaraman (2001) in Fiji. Acosta and Loza (2005) in Argentina, Mileva (2008) on 22 transition economies, Peltonen et al. (2009) on emerging markets of Asia, Latin America and Europe, Frimpong and Marbuah (2010) in Ghana and Tan et al. (2011) in Malaysia find positive relationship between investment and GDP or GDP growth.

Many studies report that investment is positively determined by saving. Salahuddin et al. (2009) find in their study that domestic investment is positively related with domestic saving for the case of 21 Muslim developing economies. The work of Baker (2011) also finds the similar results in relation with private investment for Nigeria. The study of Feldstein and Horioka (1980) suggest that cross section saving-investment correlation is high in OECD countries which implies that there is low capital mobility among these countries, this is known as F-H puzzle. Some studies find small regression coefficient of saving in the developing countries like Wong (1990) and Dooley et al. (1987) in the developing counties which implies that high capital mobility is present among the countries. Saving- investment relationship is observed by Shahbaz et al. (2010) in Pakistan with the finding of a weak correlation. The study suggests that the underlying reason for this weak relationship is the insufficient capital mobility within the

country which induces domestic investors to borrow from the international markets with higher capital mobility, in order to finance their projects.

Wahid et al (2008) find positive but low correlation between saving and investment in the south Asian countries which is conflict with the FH puzzle. While the study of Salma et al (2012) observes that there is no long-run relationship between domestic saving and investment in Pakistan. There can be various reasons for it, but capital mobility is the major cause for such relationship.

Mixed results are observed in literature regarding the role of interest rate in determining investment. Some studies find negative relation with private investment like Frimpong and Marbuah (2010) for Ghana in both short and long run. Ghura and Goodwin (2000) also find similar results in the developing countries of Asia, Latin America and Sub Saharan Africa. While, Seruvatu and Jayaraman (2001) find no significant impact of real lending rate on private investment, in Fiji. The study of Salahuddin et al. (2009), in 21 Muslim developing economies are reinforces the results of Seruvatu and Jayaraman (2001).

Trade represents the volume of trade in the economy. Investment increases with expansion in the quantum of exports and imports. Hence a positive relationship of trade and investment is believed to exist generally. According to the study of Salahuddin et al. (2009) domestic investment is positively explained by trade openness. Frimpong and Marbuah (2010) also find similar results for private investment in case of Ghana, both in short run and long run. But the studies of Acosta and Loza (2005) and Seruvatu and Jayaraman (2001) depict that private investment is determined by term of trade during the study of 48 emerging countries and Fiji respectively, rather than the volume of trade. Mileva (2008) in a study on 22 transition economies, however, reports an insignificant impact of trade in the long run.

A mixed role of inflation is observed, in existing literature, as determinant of domestic investment. Li (2006) finds a negative impact of inflation on domestic investment for a sample of 117 countries from the list of developing as well as developed countries stating that high rate of inflation is an obstacle to achieve higher rates of domestic investment.

Shahbaz et al. (2010) reports a positive impact of inflation on investment reinforcing the theory of Phillips curve. The study of Oshikoya (1994) find in African countries that impact of inflation is like a flip of coin for the two groups; where it negatively affects investment in the low income countries, it has a positive impact for the countries belonging to middle income group.

A group of studies also end up with a conclusion that inflation has no effect on domestic

investment. Examples include; the studies of Jaramillo (2010) on 48 emerging economies and Salahuddin et al. (2009) on 21 Muslim developing economies.

Increase in government expenditures may either encourage or discourage investment. High government borrowing may increase the interest rate and contract the size of available funds in the financial market for private sector, leading to crowd out private investment. The studies reporting results in favour of this hypothesis include Ghura and Goodwin (2000) whose sample comprises developing countries from Asia, Latin America and Sub Saharan Africa; Karago and Kerim (2006) conducting study on Turkey.

On the other side, government expenditures on basic infrastructure are found to create an environment conducive for investment and persuade private investors to enhance investment. This relationship is observed by Asante (2000) in Ghana and Baker (2011) in Nigeria. Many of the developing countries are debt-strapped and therefore, carry large amounts of external debt to their credit. This leads to an environment of macroeconomic uncertainty and in this way it may affect domestic investment negatively. An adverse effect of external debt is observed by Oshikoya (1994) on private investment in African countries, by Salahuddin et al. (2009) on domestic investment in 21 Muslim developing economies and also by Frimpong and Marbuah (2010) on long run private investment in Ghana. The studies that find an insignificant relationship between the two variables include Fitz Gerald et al (1994), Ghura and Goodwin (2000) and Nabende and Salater (2005).

III. METHODOLOGY AND DATA DESCRIPTION

The present study attempts to explore the determinants of domestic investment in the frame of financial development and macroeconomic factors. Our sample is, however, confined to the middle income Asian countries¹, the countries for which data is available (A list of sample countries used in our study is provided in Appendix A). The model employed in our study and a brief description of the variables used is given hereunder.

a) *Econometric Model*

In order to find the role of financial and macroeconomic variable on the domestic investment we use an investment model which is a variant of the model earlier used by Ndikumana (2000). The model in its general form is presented below;

$$INV_{it} = \alpha + \beta INV_{it-1} + \delta X_{it} + u_{it} \quad (a)$$

Where INV_{it} is the investment (as a percentage of GDP) of country i at time t . X indicates the set of all possible variables.

As the main objective of our study is to search for the factor explaining domestic investment, therefore we are compelled to include all the possible relevant variables in the model to get unbiased estimators of potential variables of domestic investment. A general model, developed on the basis of existing studies for domestic investment is presented as follows;

$$INV_{it} = \beta_0 INV_{it-1} + \beta_1 Y_{it} + \beta_2 Y_{it-1} + \beta_3 PRIVT_{it} + \beta_4 PRIVT_{it-1} + \beta_5 R_{it} + \beta_6 R_{it-1} + \beta_7 S_{it} + \beta_8 S_{it-1} + \beta_9 TRAD_{it} + \beta_{10} TRAD_{it-1} + \beta_{11} GE_{it} + \beta_{12} GE_{it-1} + \beta_{13} D_{it} + \beta_{14} D_{it-1} + \epsilon_{it} \quad (b)$$

The results of redundancy test mentioned in table 5.1 exclude the redundant (unimportant) variables

in the above-mentioned model (Equation 4.2) and leave us with the following investment model for estimation.

$$INV_{it} = \beta_0 INV_{it-1} + \beta_1 Y_{it} + \beta_2 Y_{it-1} + \beta_3 PRIVT_{it} + \beta_5 R_{it} + \beta_6 R_{it-1} + \beta_7 S_{it} + \beta_8 S_{it-1} + \beta_9 TRAD_{it} + \beta_{10} TRAD_{it-1} + \beta_{11} GE_{it} + \beta_{12} GE_{it-1} + \beta_{13} D_{it} + \epsilon_{it}$$

Where;

INV_{it} = "Gross Fixed Capital Formation as a percentage of GDP".

$PRVT_{it}$ = "Domestic credit to private sector as a percentage of GDP"

Y_{it} = GDP per capita growth (Annual %)

R_{it} = Lending interest rate (%)

S_{it} = Gross domestic savings (% of GDP)

$TRAD_{it}$ = Trade (% of GDP)

INF_{it} = Inflation, GDP deflator (annual %)

GE_{it} = "General government final consumption expenditure (% of GDP)"

D_{it} = External Debt (% of GNI)

¹ The classification is based on the World Bank 2011.

b) *Gross Fixed Capital Formation (% of GDP)*

Gross fixed capital formation (a proxy for gross domestic investment) represents dependant variable in our model and includes land improvements (fences, drains, ditches, and so on); plant, equipment purchases, machinery; and the construction of railways, roads, and the like, including offices, schools, hospitals, commercial and industrial buildings and private residential dwellings. The same variable is used by Manuel et.al (2000), Mileva (2008) and Arazmuradov (2011).

c) *GDP Per Capita Growth (Annual %)*

GDP per capita growth is the annual growth rate of GDP per capita (the ratio of gross domestic product and the midyear population). The neo classical theory states that, real GDP growth is positively related with the domestic investment through the accelerator effect. It is expected that our results will follow the theory of neo classical.

d) *Domestic Credit to Private Sector (% of GDP)*

Domestic credit to private sector, a variable of financial development, designates the role of banks in the provision of finance to private corporations. It is normally believed that credit to private sector yields greater returns as compared to credit allocated to public sector (Rousseau, and Vuthipadadorn (2005).

e) *Lending Interest Rate (%)*

Lending interest rate is the rate of interest charged by banks on loans from the lender.

f) *Gross Domestic Savings (% of GDP)*

Gross domestic saving is calculated by taking the difference between GDP and final consumption expenditures.

g) *Trade (% of GDP)*

Trade is the sum of imports and exports of the goods and services as a percentage of GDP.

h) *Inflation, GDP Deflator (Annual %)*

Inflation is measured by the GDP deflator which indicates the rate of change in price as a whole in the economy.

i) *General Government Final Consumption Expenditure (% of GDP)*

General government final consumption expenditure indicates current expenditures of the government for goods and services and expenditure on security and national defense, although the expenditures on the government military are excluded from it.

j) *External Debt (% of GNI)*

External debt means the ratio of total external debt to gross national income and means debt payable to nonresidents in foreign currency, or goods and

services. It is the sum of public, publicly guaranteed, private nonguaranteed long-term debt, short-term debt and use of IMF credit. Short-term debt includes all debt having an original maturity of one year or less and interest in amount outstanding on long-term debt.

k) *Data and Variables*

Keeping in view the objectives of our study and our specific model, we have obtained data for the middle income Asian countries over the period 1980 to 2010. Non-availability of data on some of the variables induced us to drop some countries from the study and finally we have 12 cross sectional units in our sample. The data is taken from WDI 2011 online data base. Before we move on to the regression analysis, an appropriate methodology followed in this study is explained hereunder.

l) *Methodology*

Classical econometrics is valid only for stationary series and since panel data includes both components, time series as well as cross sections, thus the time series dimension makes it necessary to apply Unit Root test in order to ensure that the results are reliable. Nelson and Plassor (1982) explain that most of the economic series are Unit Root, and as suggested by Engel and Granger (1982), the regression of unit root series is valid only if they are co-integrated. Thus as a first step of estimation process, we have employed unit root test with a view to find whether the series are stationary or not. Series of I (0) are believed to be ideal which mean that there is no unit root, thus signifying that a particular series is stationary at its level. However, if two or more series are found to be non-stationary then the estimated regression yields spurious results [Granger and Newbold (1974)], than co-integration between variables is necessary to be tested.

m) *Panel Unit Root Test*

Before we proceed to identify the long run relationship we need to investigate the order of integration in order to verify whether the series is stationary or unit root. A Stationery series is characterized by the constant variance, constant mean and constant covariance of each given lag. For the identification of the order of integration we have used a modern technique of panel unit root developed by Im, Pesaran, Shin (2003) (hereafter referred to as IPS). It specifies a separate ADF regression for every cross section by individual effect and no time trend.

n) *Panel Co-integration*

Finding more than one variable non-stationary urges us to test whether the series are co-integrated. So in the second step of estimation we apply penal co-integration test introduced by Kao (1999) which is Engel-Granger (1987) two step residual based test to measure the long run relationship among the selected variables.

o) *Redundancy Test*

For the purpose of obtaining meaningful results, econometric model should be parsimonious and unimportant variables must be excluded from the model. Where inclusion of insignificant variable enlarges the variability of estimators on one hand, the exclusion of any important variable from the model yields biased estimator on the other. Thus, the process of dropping some variable from the equation is not a hit and trial method but this ought to be done in a systematic manner. Therefore, we have applied coefficient test of redundant variable to obtain a parsimonious model. Test of redundant variables is basically the comparison of the original model and model with redundant variables, in order to decide which variables are to be excluded from the initial equation.

p) *Empirical Bayesian Estimator*

Although classical techniques are frequently used in econometrics, Empirical Bayesian is an alternative to such techniques and getting popular due to its advantages as compared with the classical methods. Classical approach ignores the prior knowledge about the parameters and the variability of the parameters. The fact that Bayesian approach incorporates the prior information in the model enhances the power and flexibility of the model and provides results in natural form. It also deals with the complexities inherent in the classical approach. Keeping in view the merits of Bayesian technique we have used Empirical Bayesian approach to estimate the investment model in our study.

q) *Bayesian Estimation Procedure*

It is believed that Empirical Bayesian procedure is efficient over the class of others estimators especially in case of small samples. Bayesian approach has various advantages over the other estimators that lead to more precise and reliable coefficients. It assumes that prior information about unknown must be incorporated in the density function.

$$\hat{\beta}_i / \beta_i \sim N(\beta_i, \Lambda_i) \tag{d}$$

$\hat{\beta}_i$ Indicates the estimated elasticities and β_i is true values of elasticity. It shows that 'estimated values' of parameters is normally distributed with mean β_i and variance Λ_i given the true values of parameters. The empirical Bayesian estimators are attained by assuming that β_i is normal prior distribution of the form;

$$[\beta_i | \mu, \Omega] \sim N(\mu, \Omega) \tag{e}$$

Equation 4.5 implies that β_i is normal distribution with μ and Ω . Where, Ω indicates the variance of the prior density which has been calculated from the Ordinary Least Squares results that is:

$$\Omega = \left[\sum_{i=1}^n \Lambda_i^{-1} \right]^{-1} \tag{f}$$

Ω is the variance of prior density which is simply the weighted average of the variance covariance matrices of the OLS estimates. We follow the procedure of Corrington and Zaman (1994) to calculate the variance covariance matrices of parameters by using the standard errors of OLS estimates obtained in the first stage. μ in equation 4.5 is the mean of prior density which is given below:

$$\mu = \Omega^{-1} \left[\sum_{i=1}^n \Lambda_i^{-1} \hat{\beta}_i \right] \tag{g}$$

Finally the Empirical Bayesian estimator obtained from the posterior density is given as follows:

$$\hat{\beta}^{EB} = V_i (\Lambda_i^{-1} \hat{\beta}_i + \Omega^{-1} \mu) \tag{h}$$

Formula of Empirical Bayesian is given in equation 4.8. $\hat{\beta}^{EB}$, means the parameter estimates of the Empirical Bayesian and standard error of the estimates are obtained from 'Vi' which is the variance of the posterior density.

$$V_i = (\Lambda_i^{-1} + \Omega^{-1})^{-1} \tag{i}$$

Estimates of the Bayesian methods are more precise as compared to the classical estimates. Standard errors of the Bayesian are smaller than those of classical which helps in getting more reliable conclusions (Berger (1985)). Some other authors also recommend Empirical Bayesian for the panel data analysis including Koop (1999) and Peseran (2005) whereas a number of researchers have employed Empirical Bayesian approach in their studies Efron and Morris (1972), (Rubin (1981), Hsiao, pesaran and Tahmiscioglu (1999)).

IV. EMPIRICAL RESULTS

In this study we empirically test the role of financial and macroeconomic variables in the determination of domestic investment, with a view to conclude the debates on the subject.

a) *Redundancy Test*

We estimate equation (b), as a first step of formal estimation process, which include lagged investment² and all the variables of financial and macroeconomic nature, in their level and lag forms, which can potentially affect the domestic investment. The model in equation (b) is a general model and to get a parsimonious model from model (b) we apply the redundancy test to all variables in the model. The findings of this test are given in Table 3.1 below;

² Lagged investment is included to control the economic condition in the last year (Li, 2006)

Table 3.1 : Results of Exclusive Restriction (Redundancy Test)

Variables	F-statistics	Prob
I_{it-1}	25.34	0.000***
Y_{it}	9.21	0.000***
Y_{it-1}	3.69	0.000***
$PRIVT_{it}$	3.47	0.000***
$PRIVT_{it-1}$	1.45	0.147
S_{it}	15.56	0.000***
S_{it-1}	3.51	0.000***
$TRADE_{it}$	2.81	0.002***
$TRADE_{it-1}$	2.83	0.002**
INF_{it}	2.13	0.018**
INF_{it-1}	4.22	0.000***
R_{it}	3.34	0.000***
R_{it-1}	2.56	0.004**
GE_{it}	2.99	0.001**
GE_{it-1}	2.03	0.025**
D_{it}	2.64	0.003**
D_{it-1}	1.32	0.210

Significance at 1% level (***), Significant at 5% level (**)

According to the results of redundancy test, as shown in Table 3.1, we reject the null of redundancy for all the variables except lag of private credit and external debt. The corresponding p-values for rest of the variables indicate the variable is not redundant and hence cannot be excluded from the model.

b) Testing Panel Unit Root

Before switching to the formal estimation process we first test unit root of the series of candidate variables in our econometric model. We employ Im, Pesaran and Shin (2003) test for the purpose of finding unit root. The results of the test are given below.

Table 3.2 : Test results of Panel Unit Root (Im, Pesaran and Shin (2003))

Series	Levels		First Difference	
	t-statistics	p-value	t-statistics	p-value
INV_{it} (Gross Capital Formation (%GDP))	-0.252	0.401	-10.209	0.000***
Y_{it} (GDP per capita growth (annual %))	-6.206	0.000***		
$PRIVT_{it}$ (Domestic credit to private sector %GDP)	3.546	1.000	-4.90934	0.000***
D_{it} (External Debt (%GNI))	-0.216	0.415	-5.80144	0.000***
GE_{it} (Govt Expenditure %GDP)	0.461	0.678	-10.209	0.000***

INF_{it} (Inflation, GDP deflator (Annual %))	-4.787	0.000***		
R_{it} (Lending interest rate (%))	1.268	0.898	-12.7066	0.000***
S_{it} (Gross Domestic Saving (%GDP))	-0.110	0.456	-10.9317	0.000***
$TRADE_{it}$ (Trade as % of GDP)	2.195	0.986	-8.78945	0.000***

Note: *** denote level of significant at 1%

Table 3.2 shows results of the test for the variables at level form, and the series which are not stationary at level, the test is further extended to the variables in their first difference form. The null of the test specifically states that the series is a Unit root (signifying that the series is not stationary), whereas under the alternative hypothesis the series is not a unit root (that the series is stationary). The t-stats and the corresponding p-values for each of the variables show that only two variables (Y_{it} , INF_{it}) are stationary at level or integrated order zero $I(0)$. Other series are non-stationary at level, however, these are integrated order one $I(1)$, that is the series become stationary at first difference.

Since more than one variable are non-stationary, we cannot proceed further for the analysis unless we find a long run relationship between the investment and the financial and macroeconomic variables, that is we are satisfied that there is cointegration between the variables.

c) *Penal Cointegration*

A panel cointegration test introduced by Kao (1999)³ is employed to examine the long run relationship between the variables. Table 3.3 below, yields the output of the test.

Table 3.3 : Test results of Penal Cointegration

Series	ADF	
	t-statistics	Prob
$INV_{it}, Y_{it}, PRIVT_{it}, S_{it}, TRADE_{it}, INF_{it}, R_{it}, GE_{it}, D_{it}$	-4.239	0.000***

The results presented in Table 3.3 provide sufficient evidence to reject the null hypothesis of no co-integration, at 1% level. This reveals the existence of a long run relationship between the investment, financial and macroeconomic variables. The fact that the variables are co-integrated allows us to proceed to the estimation process.

d) *Findings of the Empirical Bayes*

For reasons discussed earlier we employ Empirical Bayesian technique in our final stage of estimation process. Table 3.4 below shows the estimates of the empirical Bayes of the investment model (c). As compared with OLS estimates, under the empirical Bayesian analysis, the estimates become more precise because of incorporation of the prior information, with the data information.

³ Kao (1999) test is based on the (Engel Granger (1987) two step residuals.

Table 3.4 : Results of Empirical Bayesian Estimation

Countries		I_{it-1}	Y_{it}	Y_{it-1}	P_{it}	S_{it}	S_{it-1}	T_{it}	T_{it-1}	INF_{it}	INF_{it-1}	R_{it}	R_{it-1}	GE_{it}	GE_{it-1}	D_{it}
Bhutan	Coefficient	0.63	0.20	0.10	0.04	0.20	-0.06	0.01	-0.04	-0.02	-0.05	0.02	-0.15	0.13	-0.03	0.00
	t-value	23.32***	9.80***	4.56***	4.61***	8.66***	-2.72***	1.36	-4.73***	-1.35	-3.55***	0.48	-3.84***	2.31**	-0.40	-0.31
China	Coefficient	0.59	0.22	0.11	0.05	0.24	-0.06	0.01	-0.04	-0.01	-0.04	-0.02	-0.18	0.12	-0.02	0.00
	t-value	22.71***	10.70***	5.27***	5.82***	10.14***	-2.59***	0.83	-4.69***	-0.86	-2.84***	-0.53	-4.88***	2.15**	-0.24	-0.22
Fiji	Coefficient	0.62	0.20	0.09	0.04	0.24	-0.07	0.02	-0.04	-0.01	-0.04	0.00	-0.16	0.14	-0.06	0.00
	t-value	22.96***	9.57***	4.05***	4.45***	10.05***	-2.99***	1.63	-4.56***	-0.82	-3.09***	0.05	-4.22***	2.43**	-0.83	-0.37
Indonesia	Coefficient	0.63	0.20	0.09	0.05	0.20	-0.06	0.02	-0.05	-0.01	-0.02	-0.06	-0.16	0.19	-0.07	0.00
	t-value	23.77***	9.94***	4.23***	5.38***	8.40***	-2.55***	1.55	-5.16***	-0.99	-1.74*	-1.72*	-4.70***	3.18***	-0.98	0.56
India	Coefficient	0.61	0.19	0.07	0.04	0.27	-0.04	0.02	-0.05	-0.02	-0.07	0.06	-0.16	0.19	-0.11	0.00
	t-value	22.99***	10.23***	3.56***	4.30***	12.63***	-1.91*	1.98*	-5.04***	-1.75*	-4.94***	1.69*	-4.42***	3.47***	-1.71*	-0.09
Sri Lanka	Coefficient	0.62	0.21	0.11	0.04	0.21	-0.06	0.02	-0.05	-0.02	-0.05	0.01	-0.12	0.13	-0.06	-0.01
	t-value	22.81***	10.15***	4.84***	4.55***	8.65***	-2.61***	1.71*	-4.79***	-1.25	-3.32***	0.28	-3.35***	2.23**	-0.89	-0.68

Significant at 1% (***), Significant at 5% (**), Significant at 10% (*)

Table 3.5 : Results of Empirical Bayesian Estimation (Continued)

Countries		I_{it-1}	Y_{it}	Y_{it-1}	P_{it}	S_{it}	S_{it-1}	T_{it}	T_{it-1}	INF_{it}	INF_{it-1}	R_{it}	R_{it-1}	GE_{it}	GE_{it-1}	D_{it}
Malaysia	Coefficient	0.66	0.29	0.13	0.04	0.18	-0.05	0.02	-0.03	-0.02	-0.06	0.01	-0.14	0.10	-0.04	0.00
	t-value	26.66***	14.72***	5.96***	4.61***	7.29***	-2.08**	2.17**	-3.73***	-1.61	-4.58***	0.19	-3.61***	1.64*	-0.54	-0.49
Pakistan	Coefficient	0.63	0.19	0.11	0.04	0.22	-0.06	0.02	-0.04	0.00	-0.05	0.03	-0.17	0.12	-0.05	0.00
	t-value	23.29***	9.50***	5.18***	4.59***	9.35***	-2.86***	1.64*	-4.58***	-0.36	-3.87***	0.76	-4.40***	2.23**	-0.78	-0.25
Philippine	Coefficient	0.63	0.20	0.09	0.04	0.23	-0.06	0.02	-0.04	-0.03	-0.07	0.05	-0.13	0.15	-0.03	-0.01
	t-value	23.02***	9.59***	4.28***	4.71***	9.40***	-2.42**	1.68*	-4.36***	-2.33**	-5.23***	1.29	-3.62***	2.46**	-0.51	-1.32
Papua New Guinea	Coefficient	0.65	0.17	0.09	0.04	0.21	-0.08	0.02	-0.04	-0.02	-0.06	0.02	-0.11	0.15	-0.05	-0.02
	t-value	24.17***	8.51***	4.18***	4.63***	9.31***	-3.38***	1.71*	-4.71***	-1.13	-4.43***	0.42	-2.92***	2.63***	-0.73	-1.88
Thailand	Coefficient	0.64	0.23	0.11	0.03	0.19	-0.03	0.01	-0.03	-0.02	-0.05	0.05	-0.17	0.16	-0.04	0.00
	t-value	24.10***	11.53***	5.09***	3.20***	8.04***	-1.47	0.74	-3.80***	-1.30	-3.49***	1.34	-4.41***	2.65***	-0.63	-0.03
Vanuatu	Coefficient	0.61	0.22	0.11	0.05	0.19	-0.06	0.01	-0.05	-0.02	-0.05	0.02	-0.15	0.15	0.05	0.00
	t-value	22.93***	10.43***	4.93***	5.11***	8.01***	-2.40**	0.98	-4.92***	-1.08	-3.53***	0.38	-4.01***	2.65***	0.71	-0.15

Significant at 1% (***), Significant at 5% (**), Significant at 10% (*)

Variables for most of the countries in the table bear expected sign of the estimators are statistically significant. The coefficient of one period lagged investment (hereafter referred to as lagged investment), ranging from 0.59 to 0.66 across countries, shows its positive impact on current investment at 1% level for all cross sectional units. The positive coefficient of lagged investment divulges that investment practice in the

previous year acts as an indicator of the economic condition in a particular country, thereby stimulating investment in the following year. Our results are consistent with the findings of Ndikumana (2000) and Salahuddin et al (2009).

The coefficient of GDP per capita growth bears a positive sign and is statistically significant at 1% level for all the countries, with a value ranging from 0.17 to

0.29. It implies that 1% increase in GDP per capita growth has a potential to expand domestic investment by 0.17% to 0.29% in the sample countries. This provides evidence in support of the endogenous growth theory (Locas (1988) and Romer (1986)). The philosophy of neo classical theory of investment, that output growth is positively related with the investment due to the accelerator effect⁴, also sustains by this relationship. In terms of quantitative importance, the variable is least important for Papua New Guinea where one percent increases in GDP per capita growth stimulates investment by about 0.17percent. On the other extreme, one percent change in GDP per capita growth changes domestic investment by 0.29 percent for Malaysia. The results are consistent with the findings of Levine and Rental (1992), Barro and Lee (1994), Ghura and Hadjimicheal (1996), Ndikumana (2000), Hernandez-Cata (2000), Wai and Wong (1982), Fielding (1997), Wolf S. (2002), Mbanga (2002), Akpalu (2002), Greene and Villanueva (1991). Furthermore, it is not only the current level of per capita income that affects domestic investment but its lagged value (one year lag) also determines investment positively (although its quantitative importance is lesser than the variable at level). The variable is significant at 1% and its value stands between 0.07 and 0.11, for the middle income Asian countries.

The estimated coefficient of domestic credit to private sector, which is also considered a measure of financial development, is found to have a positive impact on domestic investment. The fact that availability of funds in the credit market promotes investment cannot be undermined despite a small range of the coefficient between 0.03% and 0.05%. Our results are similar to the studies of Stiglitz and Weiss (1981), Greenwald et al. (1984), Islam and Wetzel (1991), Ronge and Kimuyu (1997) and Ghura and Goodwin (2000).

The coefficient of saving is also found to affect the domestic investment positively, for the entire sample and the results are significant at 1% level. India has a coefficient of 0.27, which is highest in the sample whereas Malaysia is on the tail with a value of 0.18. A positive relationship of gross domestic saving with domestic investment implies that the two variables are complimentary; however, a relatively smaller coefficient indicates the higher mobility of capital from these countries. These results are consistent with the findings of Dooley et al. (1987), Wong (1990), Salahuddin and Islam (2008) and Arazmuradov, A. 2011.

⁴ The accelerator effect theory states Gross Domestic Product (GDP) stimulates investment. In response to a rise in GDP, firms increase their investments and thus the profits go up. Consequently the fixed investments of firms explode, in the form of increased capital stock. This further leads to economic growth by raising consumer expenditure through the multiplier effect.'

We find the coefficient of trade (current level) positive and significant at 5% for Malaysia while for India, Pakistan, Philippine, Sri Lanka and Papua New Guinea, it is significant at 10% level. Its role, however, is not of worth mentioning for rest of the countries in the sample. Positive relationship implies that domestic investment is affected by both exports and imports. Increase in Exports increases the foreign exchange which is necessary for purchase of imported capital goods that is helpful to increase in domestic products. While, the greater access to investment good due to high imports helps to stimulates domestic investment. These results follow the findings of Ghura and Goodwin (2000) and Mileva (2008).

On the other, the estimated coefficient of first lag of trade is negative and significant at 1% level for all the countries ranging between -0.05 and -0.03. This is consistent with the study of Demir (2005) and Ouattara (2005). Because of the increase in risk after the trade liberalizations risk adverse investors desire to invest in financial sector rather than real sector. The current inflation level does not seem to affect investment significantly, with the exception of India and Philippine where it is significant at 10% and 5% level of significance respectively, and has negatively sign. These findings encompass the studies of Mehrara and Karsalari (2011) and Ghura and Goodwin (2000).

However, the lagged inflation is found to discourage investment (coefficient ranges between 0.02 and 0.07) and the results are significant at one percent level, for all the countries except Indonesia for which the significance stands at 10% level. These results provide evidence in favour of the Fisher's (1993) stand point that inflation curbs investment by raising the risk associated with long-term projects. The results support the findings of Oshikoya (1994), Asante (2002) and Salahuddin M. et al (2009).

The negative sign of estimated coefficients of interest rate advocates the Neo-classical theory of investment that the cost of capital escalates as the interest rate increases, resulting in cuts in the capital expenditures at firms level. For India and Indonesia for which current interest rate is negatively related with investment (at 10% level), the estimator becomes significant in its lag form, at 1% level for all the cross sections. These findings are in line with the results of Green and Villanueva (1991), Serven, and Solimano (1992), Ghura and Goodwin (2000) and Peltonen et al. (2009).

Government expenditures bear a positive coefficient and significant at 1% level for India, Indonesia, Papua New Guinea, Thailand and Vanuatu, at 5% for Bhutan, China, Fiji, Sri Lanka, Pakistan, Philippine and at 10% for Malaysia. With respect to the quantitative important Indonesia and India lead with 0.19% leaving Malaysia farthest behind at 0.10%. The

government spending, in our study reveals crowd in effect in contradiction with the study of Ghura and Goodwin (2000). This may be due to the fact that government expenditures in infrastructure (communication, transport and irrigation) and government spending on national defense and security creates a climate favorable for investment as also suggested by Greene and Villanueva (1991).

Although, external debt is believed to be an indicator of macroeconomic uncertainty, it does not constrain domestic investment in the middle income Asian countries and the coefficient is insignificant for the entire sample. One of the reasons behind irrelevance of external debt with that of domestic investment could be the fact that most of the developing countries depend on the loans from official sources at concessional terms rather than from the private sector as suggested by Fitz Gerald et al (1994). Earlier studies of Ghura and Goodwin (2000) and Nabende and Salater (2005) also arrive at the similar findings.

In nutshell, the results suggest that lagged investment, real GDP per capita growth, domestic credit to private sector, domestic saving, government expenditures, lagged of trade, inflation, interest rate are the key determinants of domestic investment in the middle income Asian countries and for the period under study.

V. CONCLUSIONS

In this study we attempted to explore the role of various factors in the determination of domestic investment. Our sample consisted of twelve middle income Asian countries and the sample period extended over 31 years ending up to 2010. Empirical Bayesian approach was used for estimation purpose, after undertaking preliminary data testing through the unit root and panel cointegration. We started with a general model of investment incorporating a variety of variables having their candidature on ground of various theoretical considerations. The parsimonious model, however, was arrived at by undergoing the redundancy test. The model finally used for analysis included lagged investment, real GDP per capita growth, domestic saving, domestic credit to private sector, interest rate, Inflation, trade, government expenditures and external debt (with lagged for all variables except GDP and Debt) as explanatory variables.

The results of this study are found in line with findings of most of the studies in the existing literature. We found that past outcomes of domestic investment strongly influence the possibility for the investors to reinvest. A positive relationship between growth and investment was also observed implying that increased output is assumed to be an indication of better performance of the economy thereby attracting further investment. Our study also provides evidence in favor of

the classical positive relationship between investment and savings. A positive impact of 'availability of domestic credit to private sector' on domestic investment signifies that higher the availability of funds in the credit market, higher would be the rate of investment. It also acknowledges the proposition that financial development results in higher rates of investment and, in turn, accelerates the rate of economic growth. Inflation, being an indicator of macroeconomic uncertainty, exhibits cuts in the rate of investment and thus bears a negative relationship with domestic investment. Interest rate is found to affect the inland investment negatively speaking in favor of the neoclassical approach that the interest rate hurts investment by raising the cost of capital. Furthermore, government expenditures in infrastructure are also found helpful in stimulating domestic investment. The results of this study, thus, highlight the importance of macroeconomic factors and indicators of financial development in determining domestic investment and consequently achieving higher rates of economic growth.

REFERENCES RÉFÉRENCES REFERENCIAS

1. Acosta, P. and Loza, A. (2005) Short and Long-Run Determinants of Private Investment in Argentina, *Journal of Applied Economics*, VIII, 389 – 406.
2. Akpalu, W., (2002): "Modelling Private Investment in Ghana: An Empirical Time Series Econometrics Investigation (1970-1994)," *The Oguaa Journal of Social*
3. Arazmuradov A. (2011) "Foreign aid, foreign direct investment and domestic investment nexus in landlocked economies of Central Asia" MPRA Paper No. 36958, posted 26, February 2012/ 19:52.
4. Asante Y. (2000) "Determinants of private investment behavior" African Economic Research Consortium, Nairobi, AERC Research paper 100.
5. Baker A.S (2011) "The Determinants of Private investment in Nigeria" *Far East Journal of Psychology and Business*, Vol 4 No 2.
6. Barro, R. J. (1995), "Inflation and Economic Growth," National Bureau of Economic Research Working Paper, No. 5326.
7. Barro, R. J., 1997, *Determinants of Economic Growth: A Cross Country Empirical Study*, MIT Press, Massachusetts.
8. Barro, R.J. and Lee, J.-W. (1994) Sources of Economic Growth, *Carnegie-Rochester Conference Series on Public Policy*, 40, 1 – 46.
9. Bayoumi, T. (1990). "Saving investment correlations. Immobile capital government policy or endogenous behavior?" *IMF Staff Papers*, 37 (2), 360-387.
10. Collier, P. and Gunning, J.W. (1999) Explaining African Economic Performance, *Journal of Economic Literature*, 37, 64 – 111.

11. Corrington and Zaman (1994) "Interindustry Variations in the Costs of Job Displacement" *Journal of Labor Economics*, Vol. No. 2 (April 1994), pp. 243-275.
12. Demir, F. (2005) *Financial Liberalization, Private Investment and Low Growth Traps in Argentina, Mexico and Turkey: Limits of Growth without Investment*, Notre Dame, IN: University of Notre Dame. Mimeo.
13. Donwa P. and Agbontaen O. (2010) "The Trend and Dynamics of the Determinants of investment in Nigeria". *International Review of Business Research Paper* volum 6.Number 6.December 2010 pp. 153-163.
14. Dooley, M., Frankel, J., Mathieson, D.J. (1987) *International Capital Mobility: What Do Saving-Investment Correlations Tell Us?* IMF Staff papers 34, 503 – 530.
15. Efron, B., and C. Morris (1972): "Limiting the risk of Bayes and empirical Bayes estimators-Part II: the empirical Bayes case", *Journal of the American Statistical Association* 67: 130-139.
16. Engle, Robert F., and Clive W.J. Granger (1987), "C0-integration and Error Correction Representation, Estimation, and Testing, *Econometrica*", Vol. 56, NO.2, pp.251-276.
17. Fielding, D. (1997). "Adjustment, trade policy and investment slumps: evidence from Africa", *Journal of Development Economics*, 52, 121±137.
18. Fischer, S. (1993). "The role of macroeconomic factors in growth", *Journal of Monetary Economics*, 32, 485± 512.
19. Frimpong J.M and Marbuah G. (2010) "The Determinants of Private Sector Investment in Ghana: An ARDL Approach". *European Journal of Social Science*, Volume 15, Number 2.
20. Galindo et.al (2002) "Does Financial Liberalization Improve the Allocation of Investment? Micro Evidence from Developing Countries", *Research Department Working paper series*; 467. Inter American development bank.
21. Gellos, R.G. and Werner, A.M. (2002) *Financial Liberalization, Credit constraints and collateral: Investment in the Mexican Manufacturing Sector*, *Journal of Development Economics*, 67, 1 – 27.
22. Ghura, D. and Hadjimichael, T. (1996) *Growth in Sub-Saharan Africa*, Staff Papers, International Monetary Fund, 43, September.
23. Granger, C.W.J. & P. Newbold (1974). *Spurious Regressions in Econometrics*, *Journal of Econometrics*, 2, 111–120.
24. Greene, J. & Villanueva, D. (1991) "Private investment in developing countries", *IMF Staff Papers*, 38 (1), 33-58.
25. Greenwald, B., Stiglitz, J. and Weiss, A. (1984) *International Imperfections in the Capital Market and Macroeconomic Fluctuations*, *American Economic Review*, 74, 194 – 9.
26. Greenwood and Jovanovic (1990) "Financial Development, Growth, and the Distribution of Income" *The Journal of Political Economy*, Vol. 98, No. 5, Part 1.(Oct., 1990), pp. 1076-1107.
27. Hsiao, C., M.H. Pesaran, and A.K. Tahmiscioglu, (1999): "Bayes Estimation of Short-Run Coefficients in Dynamic Panel Data Models", Cambridge University Press, pp. 268-296.
28. limi .A (2004)"Banking sector reforms in Pakistan: economies of scale and scope, and cost complementarities" *Journal of Asian Economics* 15 (2004) 507–528.
29. Im, K. S., Pesaran, M. H. and Shin, Y. (2003). Testing for unit roots in heterogeneous panels. *Journal of Econometrics* 115, 53—74.
30. Islam, R., and D.L. Wetzal, (1991): "The Macroeconomics of Public Sector Deficits: The Case of Ghana," *Country Economics Department Working Papers*, No. 672, World Bank.
31. James P. Walsh and Jiangyan Yu, (2010) "Determinants of foreign direct investment" IMF working paper WP/10/187, July 2010.
32. Janicki H.P and Wunnava P.V, (2004) "Determinants of foreign direct investment" *Applied Economics*, 2004, 36, 505–509.
33. Jaramillo L. (2010) "Determinants of Investment Grade Status in Emerging Markets" IMF Working paper WP/10/117.
34. Koop, G. (1999): Bayesian analysis, computation and communication software. *Journal of Applied Econometrics*, 14: 677–689.
35. Kuznets, Simon (1973), 'Modern Economic Growth: Findings and Reflections', (Nobel address), *American Economic Review*, 63, 247-58.
36. Lee J.W and McKibbin W.J (2007) "Domestic investment and external imbalances in East Asia" Australian National University. The Lowy Institution for international policy and the Brookings Institution.
37. Levine Ross and Zervos Sara (1998) 'Stock Markets, Banks, and Economic Growth' the *American Economic Review*, Vol. 88, No. 3. (Jun., 1998), pp. 537-558.
38. Levine, R and Renelt, D. (1992) "A Sensitivity Analysis of Cross-Country Growth Regression" *American Economic Review*, 82, 942 – 963.
39. Levine, R. (1997) financial development and economic growth: views and agenda, *Journal of Economic Literature*, XXXV, 688-726.
40. Li, M (2006) "Inflation and Economic Growth: Threshold Effects and Transmission Mechanisms" University of Alberta, Working papers
41. Locas R.E (1988) "On the Mechanics of Economic Development" *Journal of Monetary economics*, 22 (1988), North Holand.

42. Mbanga, G.N., (2002): "External Debt and Private Investment in Cameroon," *AJEP*, 109-124.
43. McKinnon, Ronald I., 1973, "Money and capital in economic development", Washington, DC: Brookings Institution.
44. Mehrara, M. and Karsalari, A.R (2011) "The nonlinear relationship between private investment and real interest rates based on dynamic threshold panel: the case of developing countries" *Journal of Money, Investment and Banking*, ISSN 1450-288X Issue 21 (2011).
45. Mileva E. (2008) "The Impact of Capital flows on Domestic Investment in Transition Economies". European Central Bank, Working paper series No. 871/February 2008.
46. Ndikumana (2003) "Financial Development, Financial Structure, and Domestic Investment: International Evidence".
47. Ndikumana (2005) "Can macroeconomic policy stimulate private investment in South Africa?" Political economy research institute PERI.
48. Ndikumana, L. (2000) "Financial determinants of Domestic Investment in Sub-Saharan Africa: Evidence from Penal Data" *World development* Vol, 28, No. 2, pp, 381-400 Elsevier Science Ltd.
49. Nelson, C.R. & C.I. Plosser (1982). Trends and Random Walks in Macroeconomic Time Series: Some Evidence and Implications, *Journal of Monetary Economics*, 10, 139–162.
50. Oshikoya T. W. (1994) "Macroeconomic Determinants of Domestic Private Investment in Africa: An Empirical Analysis" *Economic Development and Cultural Change*, Vol. 42, No. 3 (Apr., 1994), pp.573-596,
51. Ouattara B. (2004) "Modeling the Long Run Determinants of Private Investment in Senegal" Credit Research paper 04/05. Centre for Research in Economic Development and International Trade, University of Nottingham.
52. Pagano, M. (1993). "Financial markets and growth: an overview". *European Economic Review*, 37 (2), 613±622.
53. Peltonen, T. A., Sousa, R. M., and I. S. Vansteenkiste (2009). Asset prices, credit and investment in emerging markets. European Central Bank, manuscript.
54. Pesaran, M.H., Yongcheol Shin and Richard J. Smith (2001), "Bounds Testing Approaches to the Analysis of Le-vel Relationships", *Journal of Applied Econometrics*, Vol. 16, pp.289-326.
55. Rodrik, D. (1991) Policy, Uncertainty and Investment in Developing Countries, *Journal of Development Economics*, 36(2), 229 – 242.
56. Romer (1986) "Increasing returns and long-run growth, *Journal of Political Economy*" 94, 1002-1037.
57. Ronge, E. E., and P.K. Kimuyu, (1997): "Private Investment in Kenya: Trends, Composition and Determinants," IPAR. Mimeograph
58. Rousseau P.L, & Vuthipadadorn. D (2005) "Finance, investment, and growth: Time series evidence from 10 Asian economies" *Journal of Macroeconomics* 27 (2005) 87–106
59. Salahuddin M, Islam R. and Salim S.A. (2009) "Determinants of Investment in Muslim Developing Countries: An Empirical Investigation" *International Journal of Economics and Management* 3 (1): 100-129.
60. Salahuddin, M. and Islam, R. (2008) "Factors Affecting Investment in Developing Countries" *The Journal of Developing Areas*, 42(1), 21 – 37.
61. Schich and Pelgrin (2002) "Financial development and investment: panel data evidence for OECD countries from 1970 to 1997" *Applied Economics Letters*, 2002, 9, 1-7.
62. Seruvatu E. and Jayaraman T.K. (2001) "Determinants of Private Investment in Fiji" Working Paper 2001/02 Economics Department Reserve Bank of Fiji.
63. Serven, Luis, and Andres Solimano (1992) "Private investment and macroeconomic adjustment: A survey, *The World Bank Research Observer* 7:95-114.
64. Shah S. H et al. (2012) "Does Foreign Inflows Really Stimulate Domestic Investment: A case study of Pakistan" *International Research Journal of Finance and Economics*. ISSN 1450-2887 Issue 85.
65. Shahbaz M. Ahmed N. and Wahid N.M (2010) "Saving-Investment Correlation and Capital Outflow: The case of Pakistan" *Transition Financial, Banking and Currency Research*, *Transit Stud Rev* (2010) 17:80-97.
66. Stiglitz, J.E. and Weiss, A. (1981) Credit Rationing in Markets with Imperfect Information, *American Economic Review*, 71(3), 393 – 410.
67. Wai T.U. and Wong C. H. (1982) Determinants of private investment in developing countries. *Journal of Development Studies*, 19(1):19-36, 1982.
68. Taghavi M. (2011) "Effects of financial variables on investment in Iran" *International Journal of Finance, Accounting and economic Studies*, Vol.1/No.1/ Winter 2011.
69. Tan B.W and Lean H. H (2010) "An Analysis of Dynamic Linkages between Domestic Investment, Exports and Growth in Malaysia" *European Journal of Social Sciences*, Volume 16, Number 1.
70. Tan et al. (2011) "The dynamic relationship between private domestic investment, the user cost of capital and economic growth in Malaysia" MPRA Paper No. 27964, January 2011.

71. Tang et al (2008) "Foreign direct investment, domestic investment and economic growth in china" UNU-WIDER working paper 2008/1.
72. Wai, T. U., & Wong, C. -H. (1982) "Determinants of private investment in developing countries" Journal of Development Studies, 19 (1), 19±36.
73. Wolf S. (2002) "On the Determinants of Domestic and Foreign Investment to SADC: what role for Regional Integration?" TIPS Annual conference 2002.
74. Wong, D.Y. (1990) "What do savings-investment relationships tell us about capital mobility?" Journal of International Money and Finance, 9, 60 – 74.





This page is intentionally left blank



GLOBAL JOURNAL OF MANAGEMENT AND BUSINESS RESEARCH: C
FINANCE

Volume 16 Issue 5 Version 1.0 Year 2016

Type: Double Blind Peer Reviewed International Research Journal

Publisher: Global Journals Inc. (USA)

Online ISSN: 2249-4588 & Print ISSN: 0975-5853

The Governance and the Social Performance of Banks: Comparison between the Model Germano-Nippon and the Model Franco-Italian

By Yosra Elhaj Ali & Boudabbous Sami

University of Sfax, Tunisia

Abstract- This article discusses the influence of internal mechanisms of governance on the social performance in the context germano-Nippon and in the context Franco-Italian. We are going to put the light on the model germano-Nippon and the model Franco-Italian, governance and the social performance. Then, we will analyze the effects that exercise internal governance mechanisms on the social performance of banks belong to the context germano-Nippon and the context Franco-Italian. In order to measure the social performance, we have retained the equality between the Man and the woman, the social climate, the transparency of information and the conditions of work and to apprehend the governance we retained the council of administration, its size, its independence and the concentration of capital.

Keywords: *governance, social performance, the system germano-nippon, the system franco-italian.*

GJMBR - C Classification : *JEL Code : G20*



Strictly as per the compliance and regulations of:



The Governance and the Social Performance of Banks: Comparison between the Model Germano-Nippon and the Model Franco-Italian

Yosra Elhaj Ali^α & Boudabbous Sami^ο

Summary- This article discusses the influence of internal mechanisms of governance on the social performance in the context germano-Nippon and in the context Franco-Italian. We are going to put the light on the model germano-Nippon and the model Franco-Italian, governance and the social performance. Then, we will analyze the effects that exercise internal governance mechanisms on the social performance of banks belong to the context germano-Nippon and the context Franco-Italian. In order to measure the social performance, we have retained the equality between the Man and the woman, the social climate, the transparency of information and the conditions of work and to apprehend the governance we retained the council of administration, its size, its independence and the concentration of capital. And in order to study the impact of the internal governance on the social performance, we have to appeal to the method of principal components analysis.

Keywords: *governance, social performance, the system germano-nippon, the system franco-italian.*

I. INTRODUCTION

In the face of the existence of the globalization of the industry and of the markets and the global competition high, the banks seeksnt always to protect themselves against the phobia of their disappearances via effective governance. In this framework, the Bank is required to consolidate its performance through effective governance mechanisms. The banking context differs from the context of the firm by the opacity and the prudential regulation. Subsequently, the bank must have governance mechanisms to adapt to its specificities. Governance refers to the mechanisms that managing the actions of the leaders and delineates their latitude discretionary (Charreaux, 1997). This last decade, social performance, occupies an important place in the strategies of the banks and the companies. In this framework, several countries require businesses and banks to publish the social balance sheets provided they have a number of employees beyond the threshold. The social performance is assessed qualitatively. Frequently, the social performance is inspired by the ratio between its social effort and the satisfaction of its employees. In the framework of banking, a few criteria

are the social environment and the satisfaction of staff as the main indicators of the social performance.

In this framework, we will analyze and compare the influence of governance on the social performance in the context germano-Nippon and the context Franco-Italian.

II. REVIEW OF THE LITERATURE

The performance is a goal to achieve to all stakeholders of the Bank. According Albanes (1978), the performance is "the reason of management positions, it implies the efficiency and effectiveness". This researcher as several authors that define the performance by the efficiency and effectiveness. For Miles (1986), the performance is "the capacity of the Organization to achieve a minimum satisfaction of its clientele's expectations Strategic." In the managerial literature, we find several definitions that are around between two axes; the social performance external and the social performance internal. The social performance of the Bank Tower in the tower the social climate, the remuneration, the equality and diversity, the training and the policy of disability.

The Social Performance External: the social performance will external s interest to stakeholders. This performance and called societal performance.

The Social Performance INTERNAL: This performance is interested in the interests of personal.

a) *A few previous research concerning the relationship between governance and performance*

The empirical research treat the relationship between the internal mechanisms of governance and the banking performance are very limited.

❖ The impact of the Board of Directors on the Bank performance

Moreover, we will deal with the impact of the size of the Board of Directors on the performance and the impact of the Duality on the performance.

❖ The impact of the size of the Board of Directors on the Bank performance

Adams and Mehran (2003) postulate that the banks that have boards of directors of large size have performance more raised that banks with advice of small sizes.

Author α: PHD candidate in the Faculty of Economic and Management Sciences Sfax. e-mail: elhajaliyosra@yahoo.fr

Author ο: Professor in Management Science, University of Sfax, Tunisia.

Pearce and Zahra (1992) have shown that the correlation is positive between performance and the size of the Council. Godard (2002) examined the difference in performance between the firms who hold a narrow Council and those who possess a Board enlarged. It is a good idea to check the conclusions of these studies by the following hypothesis:

H11: The size of the board of directors has a negative impact on the performance of the banks in a context germano-Nippon.

H12: The size of the board of directors has a positive impact on the performance of the banks in a context Franco-Italian.

- ❖ The impact of the Duality of direction on the banking performance

Rhoades et al. (2001) have postulated that the firms that cumulation the executive positions realize a lower profitability to those who realize a divorce between these two functions. Therefore, the cumulation of two posts generates a rooting of Leader.

On the ground American, Pi and Timme (1993) noted that the cumulation of steering functions and monitoring within the banks generates a low profitability of assets (ROA). This conclusion is consolidated by Rechner and Dalton (1991). The hypothesis that arises:

H21: There is a negative impact of the Duality on the banking performance in the context Germano Nippon.

H22: There is a positive impact of the Duality on the banking performance in the context Franco-Italian.

- ❖ The impact of institutional investors on the banking performance

The presence of institutional investors in the board of directors will result in effects on the performance of the Bank. The effect of the presence of the institutional administrators in the board of directors on the value of the Bank and the company is balance between positive which is confirmed by McConnell and Servaes (1990), Zeckhauser and Pound (1990), Oswald and Jahera (1991) and negative which is confirmed by Morck, Shleifer and Vishny, (1988), Mikkelson and Regassa (1991), Shleifer & Vishny (1997). According Omri (2002), the presence of institutional investors within the Council improves the performance of companies.

Nevertheless, the research presented above concerning their efficiencies in the control and their positive roles in the improvement of the performance incentive to install the following hypothesis:

H31: There is a negative impact of the presence of institutional investors to the Council on the banking performance in a context germano-Nippon.

H32: There is a positive impact of the presence of institutional investors to the Council on the banking performance in a context Franco-Italian.

- ❖ The impact of the ownership structure on the performance

Moreover, we will deal with the influence of the ownership structure on the performance.

- ❖ The impact of the share ownership of institutional investors on the banking performance

Berger and Bonaccorsi di Patti (2003) stipulate, at the base of his study concerning 695 U.S. commercial banks between 1990-1995, that the large institutional investors generate consequences of monitoring that decrease the agency costs and increase the performance. Empirically, McConnel and Servaes (1990) prove that there is a positive relationship between the share ownership of institutional investors and the stock market performance.

By contrast, Shleifer & Vishny (1997) postulate that the performance and the efficiency of the firms depend on the behavior of institutional investors and of the activity of their integration within the governance. The hypothesis that arises is:

H41: There is a negative impact of capital held by institutional investors on the banking performance in a context germano-Nippon.

H42: There is a positive impact of the capital held by institutional investors on the banking performance in a context Franco-Italian.

- ❖ The impact of the concentration of capital on the banking performance

Spong et al. (1996) inspire, with 143 U.S. banks from 1990 to 1994, that the concentration of capital positively affects the banking performance. Therefore, according to these results we can point out that there is a positive correlation between the concentration of capital and the performance of banking.

On the ground Japanese, Kaplan and Minton (1994) noted that the majority shareholders hold a disciplinary role. These researchers confirm the idea that a concentration of capital is a disciplinary lever.

On the ground German, Gorton and Schmid (2000) found, experimentally, that the value of organizations is progresses when the concentration of ownership seen an increase. The hypothesis that arises is:

H51: There is a negative impact of the concentration of capital in the hands of five majority shareholders on the banking performance in a context germano-Nippon.

H52: There is a positive impact of the concentration of capital in the hands of five majority shareholders on the banking performance in a context Franco-Italian.

III. THE METHODOLOGY

a) Presentation of the sample

In the framework of this work, we are going to choose sixty banks in the context Franco-Italian and the context germano-Nippon. The data collected relate the

practices of governance and the social performance of the banks of our sample during the year 2013.

The data are collected from the social documents published by the banks. The data collected on the governance concern the characteristics of the Board of Directors and the concentration of capital.

b) *The technique of analysis the data*

In order to analyze and compare the impact of governance on the social performance in the banks in the model germano-Nippon and the Hybrid model, we are going to make recourse to the method of analysis of the main components.

- The indicators of the social performance and governance

The variables in the social performance		The measures	The variables of governance
Equality between man and woman:	The percentage of women part The percentage of women members to the Council	If lower rate to 33.3, then the rate is low. If the higher rate to 66.6%, while the rate is strong. Otherwise, the rate is average	The size of the Board of Directors
The rate of formation	The percentage of the workforce of training		
The transparency of information	The transparency of information	Binary variable; 1 if there is a suggestion box, 0 otherwise.	The duality
The social climate	The rate of absenteeism Labor discussions The rate of accident at work	0 if rate is less than 5%, 1 otherwise. 0 If yes, 1 otherwise. 0 The rate is lower than 5%, 1 otherwise.	The percentage of the capital held by the five majority shareholders
The policy of the disabled	The policy of the disabled	0 If the rate is lower than 5%, 1 otherwise	The number of institutional investors to the Council
The rate of rotation	The rate of rotation	0 If the rate is lower than 1%, 1 otherwise	The percentage of the capital held by institutional investors
The transparency of information	The transparency of information	Binary variable; 1 if there is a suggestion box, 0 otherwise.	The size of the bank

- The indicators of governance

The indicators of the governance are the number of six. These indicators are; the size of the Board of Directors, duality, the concentration of capital in the hands of the five majority shareholders, the capital held by institutional investors, the size of the Bank and their number in the board of directors.

i. *The results of the model Franco-Italian*

The matrix of components

c) *The results to interpret*

The tables below present descriptive statistics for the components of the social performance in the banks of the model Franco-Italian and the model germano-Nippon.

Table 2 : The matrix of components

	Components		
	1	2	3
%women /executives	,743	-,170	,366
%women/commîtes	,340	,220	,825
Policy of the disabled	,715	,356	-,106
Transparency of information	,438	,077	-,689
Absenteeism	,293	-,838	,006
Per Cent Training workforce	-,588	,470	,188
The rate of accidents at work	,407	,701	-,160

The method of principal components analysis reduce the seven variables in three main variables.

The first component is composed of the 70% of the variable political of the disabled, 58% of the variable of the proportion of trained workforce and 74.3% of the variable percentage of women executives. We are going to appoint Performance 1.

As well, the second component is composed of 70.1% of the variable rate of work accidents and 83.8% of the variable absenteeism. For this, we are going to appoint Performance 2.

Finally, the third component is composed of the 68% of the variable in the transparency of information and of the 82.5% of the variable percentage of women members to the board of directors. We are going to appoint Performance 3.

Regression 1

The summary table of the model of the performance 1

Model	Correlation Coefficient
1	,709

The analysis of variance

Table of coefficients

Table 5 : Table of coefficients

The variables		The coefficients	Likelihood
	(constant)	-2,442	.002
	Council size	,030	,266
	Duality	,728	,011
	TOP5	-,009	,963
	INSSIZ	-,126	,489
	INS	,052	,799
	SIZ	,094	.003

According to this table, the increase in the size of the Bank make this last more effective socially. That is to say the increase of revenues grow the Bank to improve the social life.

The duality has a positive impact on the social performance since it improves the strategic vision. According to the first regression it was:

$$PERF1 = -2.4 + 0.72 \text{ Dual} + 0.094 \text{ SIZ} + \epsilon$$

Regression 2

The table récapulatif model for the performance 2

Table 4 : ANOVA

	Model	Meaning.
1	Regression	,018A
	The Tailings	
	Total	

According to the table, our model has a probability of 0.018. Then our model is globally significant.

Table 6 : Récapulatif of model

Model	Correlation Coefficient
1	,495A

In our case, R is equal to almost 50%, this value is relatively average which indicates an average correlation.

Table 7 : ANOVA

Model	Sum of squares	Likelihood
Regression	7,103	,445A
The Tailings	21,897	
Total	29,000	

Our model social Perf 2, according to the table, has a probability of 0.445. This probability is higher than the threshold of meaning 10%, then our model is not significant.

Therefore, there is not a correlation between the mechanisms of governance and the Social Performance 2. Then we will go to the third regression.

Regression 3

Table 9 : Récupulatif model of

Model	Correlation Coefficient
1	,616A

In our case, R is equal to almost 60.2%, this value is relatively fort which reflects a strong correlation.

Table 10 : ANOVA

Model	Meaning.	
1	Regression	,115
	Residual	
	Total	

Our model perf3, according to the table, has a probability of 0.1. This probability is equal to the threshold of significance 10%, then our model is relatively significant.

The impact of governance on the performance 3

Table 11 : Table of coefficients

Model	B	Likelihood
	(constant)	1,472
Council size	-,070	,028
Duality	,011	,969

The matrix of components

Table 13 : The matrix of components Components

	Components			
	1	2	3	4
%women /executives	,625	-,158	,238	-,159
%women/commîtes	,708	,081	-,535	,204
Policy of the disabled	,626	-,062	-,179	-,453
Transparency of information	,653	,228	,471	,024
Absenteeism	-,177	,768	,234	,315
Per cent trained workforce	,835	,128	-,410	,058
Labor discussions	,500	,596	,229	-,095

TOP5	,421	,075
INSSIZ	-,005	,981
INS	,523	,031
SIZ	-,010	,748

According to the table above, the size of the Council has a negative effect on the Social Performance 3. We can conclude that a Council of small size minimizes conflicts of interest and make the Council more harmonious which causes an increase in the social performance.

Thus, the variable TOP5 has a positive impact on the social performance3. The majority shareholders support the increase of the social performance in the banks of the context Franco-Italian.

By contrast, the variable of the percentage of the capital held by institutional investors has a positive coefficient. This positive correlation is explained that the purpose of institutional investors is not, always, profit.

The regression of the Social Performance 3 is as follows:

$$\text{Perf 3} = 1.47 - 0.07 \text{ size of the Council} + 0,421 \text{ TOP5} + 0.523 \text{ INS} + \epsilon$$

Finally, the social performance in a context franco-italian, in general, is affected by the size of the Council, duality, the percentage of the capital held by the five majority shareholders and the capital held by institutional investors.

Therefore:

$$\text{PS} = c - 0.07 \text{ size of the Council} + 0,421 \text{ TOP5} + 0.523 \text{ INS} + 0.72 \text{ Dual} + 0.09 \text{ SIZ} + \epsilon$$

ii. The results in the context Germano-Nippon

The tables below present descriptive statistics for the components of the social performance in the banks of the context germano-Nippon.

The rate of accidents at work	,489	-,484	,614	,028
Rate of rotation	,325	-,313	,012	,812

The method Analysis of main components reduce the nine variables in four main variables, then these four main components reflects the social performance of banking.

The first component is composed of 62.5% of the variable percentage of women executives, 70.8% of the variable percentage of women in the committees, 83.5% of the variable percentage of workforce training, 65.3% of the variable transparency of information and 62.6% of the variable political of the disabled. We are going to appoint Performance 1.

As well, the second component is composed of 76.8% of the variable absenteeism and almost 60% of the variable labor discussions. We will appointed this component performance 2.

The third component is composed of 61.4% of the variable rate of accident. We are going to appoint Performance 3. Finally, the fourth component is composed of 81.2% of the variable rate of rotation. We are going to appoint Performance 4.

Regression1

Model	Correlation Coefficient
1	,635

Our model perf1, according to this table, has a probability of 0.084. This probability is lower than the threshold of significance 10%, then our model is globally significant.

Table of the impact of governance on the social performance1

Table 16 : Table of coefficients

Model	Likelihood	
	B	Likelihood
(constant)	1,913	,102
Duality	-,451	,203
Council size	1429	,084
TOP5	-1,329	,309
INSSIZ	-,135	,459
INS	-,121	,022
SIZ	-,020	,501

According to this table, the variable size of the board of directors has a positive and significant coefficient. Therefore, the size of the Council a significant and positive impact on the social performance in the banks of the context germano-Nippon.

Also, the capital held by institutional investors has a negative and significant coefficient. Therefore, the capital held by institutional investors to negatively

influence the social performance in a context germano-Nippon.

$$\text{PERF social 1} = C - 0.12 \text{ Ins} + 1.4 \text{ Size of the Council} + \epsilon$$

Regression2

Table 17 : Summary of the model

Model	Correlation Coefficient
1	,493

In this stage, the Social Performance 2 has a correlation coefficient of almost 50%. This value is relatively average that indicates an average correlation.

Table 18 : ANOVA

Model	Sum of squares	Likelihood
Règression	7,058	,451A
The Tailings	21,942	
Total	29,000	

According to this table, our model is not significant. Therefore, we will go to the regression 3 since there is not a correlation between the mechanisms of governance and the Social Performance 2.

Regression3

Table of Model

Model	Correlation Coefficient
1	,605A

According to this table, our model The Social Performance three has a correlation coefficient of 61%. Also, we observe that this value is relatively high that indicates a strong correlation.

Model	Sum of squares	Meaning
Règression	10,601	,136A
The Tailings	18,399	
Total	29,000	

According to this table, we can conclude that our model is not significant at threshold 10%.

Table 22 : Table of coefficients

The variables	The coefficients	Likelihood
(constant)	1,166	,324
Duality	-,670	,072
Council size	.002	,944
TOP5	-1,844	,032

INSSIZ	-,298	,121
INS	,031	,982
SIZ	,028	,587

According to this table, the proportion of capital held by the five majority shareholders has a negative and significant coefficient. Then, the majority shareholders are always looking for the increase in the financial performance and social performance presents cost (training). Therefore, a capital not concentrated in the banks of the system oriented network will result in an increase of the social performance. Therefore, in the banks of the system oriented network, the increase of capital held by the majority shareholders negatively affects the social performance of the banks.

Also, the variable duality has a negative and significant coefficient. Therefore, we can conclude that the separation of the functions of control and direction creates an improvement of the social performance. Therefore, a duality of functions negatively affects the social performance.

$$\text{Perf 3} = c - 0.67 - 1.84 \text{ Dual Top 5} + \epsilon$$

Regression 4

Table 23 : Summary of Model

Model	Correlation Coefficient
1	,332

The coefficient of regression is low since it is 34% only. Also, 12% of the variability is explained by our model.

Table 24 : ANOVA

Model	Sum of squares	Meaning
1		
Regression	3,190	,899
The Tailings	25,810	
Total	29,000	

This model is not significant at threshold 10%. Then, there is not a correlation between the mechanisms of governance and the Social Performance 4.

Finally, in the context germano-Nippon, the social performance of banks is positively affected by the size of the Board of Directors. The Bank and negatively by the duality of functions, the capital held by the five majority shareholders and the percentage of the capital held by institutional investors.

Therefore, we have this equation:

$$\text{PS} = c + \beta_1 \text{ Top 5} + \beta_2 \text{ INS} + \beta_3 \text{ Dual} + \beta_3 \text{ Size of the Council} + \epsilon$$

According to the method the ACP, the social performance that is affected by the internal mechanisms of governance are: the transparency of information, the equality between the Man and the woman, policy for the

handicapped and the percentage of the workforce training.

d) *The effect of governance on the social performance in the two system (hybrid and network oriented)*

The following table is constituted by a summary of the effect of internal mechanisms on the social performance in the two systems.

Table 26 : The effect of governance on the social performance

	System network oriented	Hybrid system
The size of the Council	+	-
Duality	-	+
TOP 5	-	+
Ins siz		
Ins	-	+
The size of the bank		+

In the banks of the system of governance network oriented, the size of the Council positively affects the social performance. The positive correlation between the size of the Council and the social performance is explained by the importance of the labor factor and the satisfaction of all stakeholders. The Hypothesis H11 is rejected.

The Duality negatively affects the social performance of the banks of the system of governance network-oriented. Therefore, the social performance brings costs and the cumulation of power produces the envy of Leader of the increase of wealth to meet the shareholders and retain its position. Therefore, the monopoly of power generates an inefficiency of the monitoring function, and subsequently a deterioration of the social performance.

This result is confirmed by Kaymak and BEKTAŞ (2008).

The Hypothesis H 21 is accepted.

In addition, the percentage of the capital held by the five majority shareholders to negatively influence the social performance. This relationship reflects that the majority shareholders are seeking the increase of wealth and the Social Performance Generates costs (such as costs of training of staff).

The Hypothesis H31 is accepted.

This is confirmed by Rawski (2010).

In addition, the percentage of the capital held by institutional investors to negatively influence the social performance. The increase in the percentage of the capital held by institutional investors causes a deterioration of the social performance since they are going to seek the increase of wealth with a minimization of costs.

The Hypothesis H51 is accepted.

Finally, we find that in the system of governance network oriented the mechanism number of institutional investors members to the Council does not influence the social performance.

In the system network oriented, the internal mechanisms of governance affects the policy of integration of disabled persons, the integration of women executives, the percentage of workforce training, the percentage of women members to the Council and the transparency of internal information (between personal) that influence the internal communication.

The transparency of information enhances the internal communication, rooted the spirit of team work and improves the confidence between the personal. This variable of the social performance is negatively affected by the duality of the posts and the increase in the percentage of the capital held by the majority shareholders and by institutional investors. We believe that this negative correlation to cause that these factors of governance are seeking the increase of wealth via the decrease of costs and an asymmetry of information. Therefore, the asymmetry of information decreases the likelihood that the employees are asking for financial and social privileges because of the increase in wealth.

In this system, the equality between the Man and the woman is negatively affected by the structure of the shareholdings. The percentage of women executives and the percentage of women in the committees Are means in most of the banks. We believe that the negative relationship between the presence of women on boards, the percentage of women managers and the factors of governance because that these factors are seeking the financial performance and the presence of the woman brings costs. The costs are the costs of replacement in case of leave (for example a maternity leave). Therefore, the search for the Wealth via a mitigation of the costs by the shareholders do not agree with the increase in the presence of the woman in the posts of decisions taken.

The percentage of workforce training is negatively affected by the shareholding structure and the duality. We believe that this relationship is born to cause that the training of personnel provides costs which do not align with the interest of the shareholders and the officer.

Also, the policy of integration of the disabled is average in this system. The integration of persons with disabilities brings costs for that integration would be more easy and adapts to the physical constraints of the handicapped. This policy is negatively affected by the duality and the shareholding of the majority shareholders and institutional investors to cause that they seek the increase of wealth and this policy commits the costs. Without doubt, the disabled person deserves

to have its rights as the normal person same that his recruitment brings costs.

We believe that it must limit the duality and modify the structure of the shareholding in order to increase the equality between the Man and the woman, the transparency of information, the policy for the handicapped and the rate of training.

e) *The hybrid system*

In this stage, the size of the Board of Directors negatively affects the social performance. Then, a council of small size positively affects the social performance. To cause that a Council of reduced size is privilege by a easy harmonization between the members in the decision-making which generates a improvement of the social performance.

This result is confirmed by Mersland (2009).

The Hypothesis H12 is rejected.

We find that the duality positively influences the social performance. Therefore, the duality leads to an improvement of the strategic vision that improves by the following social performance. Therefore, in this context the duality causes a minimization of conflict and of asymmetry of information between these two posts, which positively affects the social performance.

This result is confirmed by Simpson and Gleason (1999).

The Hypothesis H22 is accepted.

Also, the percentage of the capital held by the five majority shareholders positively affects the social performance. Therefore, the increase in the percentage of the capital held by the five majority shareholders engenders a improvement of the social performance. We do not believe that the positivity of this relationship is explained by the presence of the State as a majority shareholder.

This is confirmed by haw et al. (2010).

The Hypothesis H32 is accepted.

Also, the percentage of the capital held by institutional investors positively affects the social performance. Then, the institutional investors will control the leader to work in the interest of the Bank. This result is confirmed by Barry et al. (2011).

The Hypothesis H52 is accepted.

Also, the size of the Bank positively affects the social performance. Therefore, an increase in the size of the bank causes an increase of the social performance. The mechanisms of governance affect the policy for persons with disabilities, the percentage of workforce training, the percentage of women executives, the transparency of information and the percentage of women members in the Council.

The policy of the disabled is negatively affected by the size of the Council since it brings costs. These costs are born since it must create specific positions

adapt to the physical constraints of the disabled. We believe that the size of the Council affects negatively the policy because of the absence or the presence of the representatives of the employees in the Council.

The equality between the Man and the woman is negatively affected by the size of the Council. In the hybrid system, the percentage of women executives is average, but the presence of women in committees is low and sometimes the woman is absent. Therefore, the woman does not participate heavily in the decision-making.

In this system, the percentage of the workforce of training is negatively affected by the size of the Council. We believe that the banks that have a low percentage of training because that these banks do not seek to boost the system of individual management of careers in the medium term due to the costs of training. This correlation is negative because the increase in the size of the Council causes a disharmony concerning social decisions since the performance brings social costs.

The transparency of information is negatively affected by the size of the board of directors because the members of the Council favor the asymmetry of information between staff to increase their strategies of rooting.

We believe, to reduce the asymmetry of information in the banks, improve the policy for the handicapped and the equality between man and woman in this context, it is necessary to modify the size of the Council or integrate more of the representatives of the employees.

IV. CONCLUSION

In this chapter, we have tried to study the impact of the internal governance (the Council of Administration and the structure of property) on the social performance of banks belong to the system Franco-Italian and the system germano-Nippon.

We have studied the impact of governance on the social performance of banks of two contexts during 2013. This impact is studied by the ACP method (principal components analysis) on the two systems.

The effect of governance on the Vari performance from one context to another. We can register that the mechanisms of governance have a significant impact on the performance, although the meaning of this effect remains undetermined. The empirical results show mixed results.

The differences between the impact of governance on the performance on the two systems are explained by several factors such as the local culture in each context, public policy, regulatory and legal context.

BIBLIOGRAPHIES

1. Adams, R., Mehran, H., (2003): "Is corporate governance different for bank holding companies? ", Federal Reserve Bank of New York Economic Policy Review (April), 123-142.
2. Albanes, (1978), "The performance of the enterprise, "Economica, Paris.
3. Berger A.N., E.B. di Patti (2003): "Capital Structure and Firm Performance: A New Approach to Testing Agency Theory and an application to the banking industry," The Federal Reserve Board, Finance and Economics Discussion Series (WIDS), Paper No. 2002-54 (2003).
4. Charreaux G. (1996), "Toward a theory of government enterprises", IAE Dijon-Crego/latec, may, pp 1-56
5. Crespi R., Garcia-Cestona Mr. A. and Salas v. (2004): "Governance Mechanisms in Spanish Banks. Does ownership matter? "Journal of Banking and Finance, vol. 28, No. 10, p. 2311- 2330.
6. Garton G. and Schmid A. (2000): "Universal Banking and the performance of German firms", Journal of Financial Economics, 58, pp. 29-80.
7. Kaplan, Bernadette A. and Minton Steven N. (1994): "Appointments of outsiders to Japanese boards: determinants and implications for managers", Journal of Financial Economics, 1994, 36(2), pp. 225.
8. Machesnay (1991): "Economy of the enterprise, Eyrolles Malaysian listed companies," Journal of Business Finance & Accounting, 33(7) & (8), 1034-1062, September/October 2006.
9. Rhoades D.L. (2001): "A meta-analysis of board directorship Structure and Financial Performance: are "Two Heads Better Than One?" ", Corporate Governance-An International Review, Vol. 9, pp. 311-19.
10. Mc Connel J. and Servaes H. (1990): "additional evidence on equity ownership and corporate value," Journal of Financial Economics, 27 (1990).
11. Mikkelson W. H. and H. Regassa (1991): "premiums paid in Block Transactions", Managerial and Decision Economics, vol. 12, No. 6, p. 511-517.
12. Miles R.E and Snow DC (1986): "Organizations: New concepts for new forms", California Management Review, vol.28, No. 3, Spring, pp62-73.
13. Moerland P W. (1995): "alternative disciplinary mechanisms in different corporate systems," Journal of Economic Behavior and Organization, Vol 26, pp 17-34.
14. Morck, R., A. Shleifer & Vishny R. (1988): "managerial ownership and market valuation," Journal of Financial Economics, Vol 20, pp 293-315.

15. Omri M.A. (2002): "The Role of Institutional Investors and the performance of Tunisian businesses," *Cahiers Africains to Public Administration*, No. 58.
16. Oswald S.L. and Jahera J.S. (1991): "The influence of ownership on performance: An Empirical Study", *Strategic Management Journal*, 12 (4) (1991), pp. 321-326.
17. Pearce J.A. and S.A. Zahra (1992): "Board Composition from a strategic Contingency Perspective," *Journal of Management Studies*, vol. 29, No. 4, 1992, p.411-438.
18. Pi L. and Timme, S.G. (1993): "Corporate Control and Bank Efficiency", *Journal of Banking and Finance*, Vol 17, pp 515-530.
19. Pinteris G (2002): "ownership structure, board characteristics and performance of Argentina Banks", Mimeo: Department of Economics, University of Ilinios.
20. Porter M. (1992): "The Competitive Advantage of Nations", Dunod, 1993.
21. Rechner P. and Dalton, D.R. (1991): "CEO duality and organizational performance", *Strategic Management Journal*, Vol 12, pp 155-160
22. Shleifer A. and Summers I.h. (1989): "Breach of trust in hostile takeovers," in *Auerbach Corporate Takeovers: causes and consequences*.
23. A. Shleifer & Vishny R.W. (1997): "A survey of corporate governance," *The Journal of Finance*, June, Vol. 52, p. 737.
24. Spong K., Deyoung R. and Sullivan R.J. (1996), "What makes a bank efficient? A look at financial characteristics and bank management and ownership structure".
25. Zeckhauser R. J. and Pound J. (1990): "In Hubbard, R. G (ed.), are large shareholders effective monitors? An investigation of share ownership and corporate performance," pp. 149-180, University of Chicago Press.

GLOBAL JOURNALS INC. (US) GUIDELINES HANDBOOK 2016

WWW.GLOBALJOURNALS.ORG

FELLOWS

FELLOW OF ASSOCIATION OF RESEARCH SOCIETY IN BUSINESS (FARSB)

Global Journals Incorporate (USA) is accredited by Open Association of Research Society (OARS), U.S.A and in turn, awards “FARSB” title to individuals. The 'FARSB' title is accorded to a selected professional after the approval of the Editor-in-Chief/Editorial Board Members/Dean.



- The “FARSB” is a dignified title which is accorded to a person’s name viz. Dr. John E. Hall, Ph.D., FARSB or William Walldroff, M.S., FARSB.

FARSB accrediting is an honor. It authenticates your research activities. After recognition as FARSB, you can add 'FARSB' title with your name as you use this recognition as additional suffix to your status. This will definitely enhance and add more value and repute to your name. You may use it on your professional Counseling Materials such as CV, Resume, and Visiting Card etc.

The following benefits can be availed by you only for next three years from the date of certification:



FARSB designated members are entitled to avail a 40% discount while publishing their research papers (of a single author) with Global Journals Incorporation (USA), if the same is accepted by Editorial Board/Peer Reviewers. If you are a main author or co-author in case of multiple authors, you will be entitled to avail discount of 10%.

Once FARSB title is accorded, the Fellow is authorized to organize a symposium/seminar/conference on behalf of Global Journal Incorporation (USA).The Fellow can also participate in conference/seminar/symposium organized by another institution as representative of Global Journal. In both the cases, it is mandatory for him to discuss with us and obtain our consent.



You may join as member of the Editorial Board of Global Journals Incorporation (USA) after successful completion of three years as Fellow and as Peer Reviewer. In addition, it is also desirable that you should organize seminar/symposium/conference at least once.

We shall provide you intimation regarding launching of e-version of journal of your stream time to time.This may be utilized in your library for the enrichment of knowledge of your students as well as it can also be helpful for the concerned faculty members.

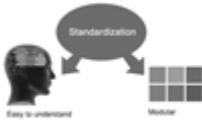




Journals Research
inducing researches

The FARSB can go through standards of OARS. You can also play vital role if you have any suggestions so that proper amendment can take place to improve the same for the benefit of entire research community.

As FARSB, you will be given a renowned, secure and free professional email address with 100 GB of space e.g. johnhall@globaljournals.org. This will include Webmail, Spam Assassin, Email Forwarders, Auto-Responders, Email Delivery Route tracing, etc.



The FARSB will be eligible for a free application of standardization of their researches. Standardization of research will be subject to acceptability within stipulated norms as the next step after publishing in a journal. We shall depute a team of specialized research professionals who will render their services for elevating your researches to next higher level, which is worldwide open standardization.

The FARSB member can apply for grading and certification of standards of their educational and Institutional Degrees to Open Association of Research, Society U.S.A. Once you are designated as FARSB, you may send us a scanned copy of all of your credentials. OARS will verify, grade and certify them. This will be based on your academic records, quality of research papers published by you, and some more criteria. After certification of all your credentials by OARS, they will be published on your Fellow Profile link on website <https://associationofresearch.org> which will be helpful to upgrade the dignity.



The FARSB members can avail the benefits of free research podcasting in Global Research Radio with their research documents. After publishing the work, (including published elsewhere worldwide with proper authorization) you can upload your research paper with your recorded voice or you can utilize chargeable services of our professional RJs to record your paper in their voice on request.



The FARSB member also entitled to get the benefits of free research podcasting of their research documents through video clips. We can also streamline your conference videos and display your slides/ online slides and online research video clips at reasonable charges, on request.





The FARSB is eligible to earn from sales proceeds of his/her researches/reference/review Books or literature, while publishing with Global Journals. The FARSB can decide whether he/she would like to publish his/her research in a closed manner. In this case, whenever readers purchase that individual research paper for reading, maximum 60% of its profit earned as royalty by Global Journals, will be credited to his/her bank account. The entire entitled amount will be credited to his/her bank account exceeding limit of minimum fixed balance. There is no minimum time limit for collection. The FARSC member can decide its price and we can help in making the right decision.

The FARSB member is eligible to join as a paid peer reviewer at Global Journals Incorporation (USA) and can get remuneration of 15% of author fees, taken from the author of a respective paper. After reviewing 5 or more papers you can request to transfer the amount to your bank account.



MEMBER OF ASSOCIATION OF RESEARCH SOCIETY IN BUSINESS (MARSB)

The ' MARSB ' title is accorded to a selected professional after the approval of the Editor-in-Chief / Editorial Board Members/Dean.

The “MARSB” is a dignified ornament which is accorded to a person’s name viz. Dr. John E. Hall, Ph.D., MARSB or William Walldroff, M.S., MARSB.



MARSB accrediting is an honor. It authenticates your research activities. After becoming MARSB, you can add 'MARSB' title with your name as you use this recognition as additional suffix to your status. This will definitely enhance and add more value and repute to your name. You may use it on your professional Counseling Materials such as CV, Resume, Visiting Card and Name Plate etc.

The following benefits can be availed by you only for next three years from the date of certification.



MARSB designated members are entitled to avail a 25% discount while publishing their research papers (of a single author) in Global Journals Inc., if the same is accepted by our Editorial Board and Peer Reviewers. If you are a main author or co-author of a group of authors, you will get discount of 10%.

As MARSB, you will be given a renowned, secure and free professional email address with 30 GB of space e.g. johnhall@globaljournals.org. This will include Webmail, Spam Assassin, Email Forwarders, Auto-Responders, Email Delivery Route tracing, etc.





We shall provide you intimation regarding launching of e-version of journal of your stream time to time. This may be utilized in your library for the enrichment of knowledge of your students as well as it can also be helpful for the concerned faculty members.

The MARSB member can apply for approval, grading and certification of standards of their educational and Institutional Degrees to Open Association of Research, Society U.S.A.



Once you are designated as MARSB, you may send us a scanned copy of all of your credentials. OARS will verify, grade and certify them. This will be based on your academic records, quality of research papers published by you, and some more criteria.

It is mandatory to read all terms and conditions carefully.



AUXILIARY MEMBERSHIPS

Institutional Fellow of Open Association of Research Society (USA)-OARS (USA)

Global Journals Incorporation (USA) is accredited by Open Association of Research Society, U.S.A (OARS) and in turn, affiliates research institutions as “Institutional Fellow of Open Association of Research Society” (IFOARS).

The “FARSC” is a dignified title which is accorded to a person’s name viz. Dr. John E. Hall, Ph.D., FARSC or William Walldroff, M.S., FARSC.



The IFOARS institution is entitled to form a Board comprised of one Chairperson and three to five board members preferably from different streams. The Board will be recognized as “Institutional Board of Open Association of Research Society”-(IBOARS).

The Institute will be entitled to following benefits:



The IBOARS can initially review research papers of their institute and recommend them to publish with respective journal of Global Journals. It can also review the papers of other institutions after obtaining our consent. The second review will be done by peer reviewer of Global Journals Incorporation (USA) The Board is at liberty to appoint a peer reviewer with the approval of chairperson after consulting us.

The author fees of such paper may be waived off up to 40%.

The Global Journals Incorporation (USA) at its discretion can also refer double blind peer reviewed paper at their end to the board for the verification and to get recommendation for final stage of acceptance of publication.



The IBOARS can organize symposium/seminar/conference in their country on behalf of Global Journals Incorporation (USA)-OARS (USA). The terms and conditions can be discussed separately.

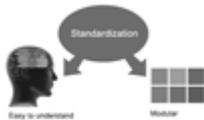
The Board can also play vital role by exploring and giving valuable suggestions regarding the Standards of “Open Association of Research Society, U.S.A (OARS)” so that proper amendment can take place for the benefit of entire research community. We shall provide details of particular standard only on receipt of request from the Board.



The board members can also join us as Individual Fellow with 40% discount on total fees applicable to Individual Fellow. They will be entitled to avail all the benefits as declared. Please visit Individual Fellow-sub menu of GlobalJournals.org to have more relevant details.



We shall provide you intimation regarding launching of e-version of journal of your stream time to time. This may be utilized in your library for the enrichment of knowledge of your students as well as it can also be helpful for the concerned faculty members.



After nomination of your institution as “Institutional Fellow” and constantly functioning successfully for one year, we can consider giving recognition to your institute to function as Regional/Zonal office on our behalf. The board can also take up the additional allied activities for betterment after our consultation.

The following entitlements are applicable to individual Fellows:

Open Association of Research Society, U.S.A (OARS) By-laws states that an individual Fellow may use the designations as applicable, or the corresponding initials. The Credentials of individual Fellow and Associate designations signify that the individual has gained knowledge of the fundamental concepts. One is magnanimous and proficient in an expertise course covering the professional code of conduct, and follows recognized standards of practice.



Open Association of Research Society (US)/ Global Journals Incorporation (USA), as described in Corporate Statements, are educational, research publishing and professional membership organizations. Achieving our individual Fellow or Associate status is based mainly on meeting stated educational research requirements.

Disbursement of 40% Royalty earned through Global Journals : Researcher = 50%, Peer Reviewer = 37.50%, Institution = 12.50% E.g. Out of 40%, the 20% benefit should be passed on to researcher, 15 % benefit towards remuneration should be given to a reviewer and remaining 5% is to be retained by the institution.



We shall provide print version of 12 issues of any three journals [as per your requirement] out of our 38 journals worth \$ 2376 USD.

Other:

The individual Fellow and Associate designations accredited by Open Association of Research Society (US) credentials signify guarantees following achievements:

- The professional accredited with Fellow honor, is entitled to various benefits viz. name, fame, honor, regular flow of income, secured bright future, social status etc.



- In addition to above, if one is single author, then entitled to 40% discount on publishing research paper and can get 10% discount if one is co-author or main author among group of authors.
- The Fellow can organize symposium/seminar/conference on behalf of Global Journals Incorporation (USA) and he/she can also attend the same organized by other institutes on behalf of Global Journals.
- The Fellow can become member of Editorial Board Member after completing 3yrs.
- The Fellow can earn 60% of sales proceeds from the sale of reference/review books/literature/publishing of research paper.
- Fellow can also join as paid peer reviewer and earn 15% remuneration of author charges and can also get an opportunity to join as member of the Editorial Board of Global Journals Incorporation (USA)
- • This individual has learned the basic methods of applying those concepts and techniques to common challenging situations. This individual has further demonstrated an in-depth understanding of the application of suitable techniques to a particular area of research practice.

Note :

//

- In future, if the board feels the necessity to change any board member, the same can be done with the consent of the chairperson along with anyone board member without our approval.
- In case, the chairperson needs to be replaced then consent of 2/3rd board members are required and they are also required to jointly pass the resolution copy of which should be sent to us. In such case, it will be compulsory to obtain our approval before replacement.
- In case of “Difference of Opinion [if any]” among the Board members, our decision will be final and binding to everyone.

//



PROCESS OF SUBMISSION OF RESEARCH PAPER

The Area or field of specialization may or may not be of any category as mentioned in 'Scope of Journal' menu of the GlobalJournals.org website. There are 37 Research Journal categorized with Six parental Journals GJCST, GJMR, GJRE, GJMBR, GJSFR, GJHSS. For Authors should prefer the mentioned categories. There are three widely used systems UDC, DDC and LCC. The details are available as 'Knowledge Abstract' at Home page. The major advantage of this coding is that, the research work will be exposed to and shared with all over the world as we are being abstracted and indexed worldwide.

The paper should be in proper format. The format can be downloaded from first page of 'Author Guideline' Menu. The Author is expected to follow the general rules as mentioned in this menu. The paper should be written in MS-Word Format (*.DOC,*.DOCX).

The Author can submit the paper either online or offline. The authors should prefer online submission.Online Submission: There are three ways to submit your paper:

(A) (I) First, register yourself using top right corner of Home page then Login. If you are already registered, then login using your username and password.

(II) Choose corresponding Journal.

(III) Click 'Submit Manuscript'. Fill required information and Upload the paper.

(B) If you are using Internet Explorer, then Direct Submission through Homepage is also available.

(C) If these two are not convenient, and then email the paper directly to dean@globaljournals.org.

Offline Submission: Author can send the typed form of paper by Post. However, online submission should be preferred.



PREFERRED AUTHOR GUIDELINES

MANUSCRIPT STYLE INSTRUCTION (Must be strictly followed)

Page Size: 8.27" X 11"

- Left Margin: 0.65
- Right Margin: 0.65
- Top Margin: 0.75
- Bottom Margin: 0.75
- Font type of all text should be Swis 721 Lt BT.
- Paper Title should be of Font Size 24 with one Column section.
- Author Name in Font Size of 11 with one column as of Title.
- Abstract Font size of 9 Bold, "Abstract" word in Italic Bold.
- Main Text: Font size 10 with justified two columns section
- Two Column with Equal Column with of 3.38 and Gaping of .2
- First Character must be three lines Drop capped.
- Paragraph before Spacing of 1 pt and After of 0 pt.
- Line Spacing of 1 pt
- Large Images must be in One Column
- Numbering of First Main Headings (Heading 1) must be in Roman Letters, Capital Letter, and Font Size of 10.
- Numbering of Second Main Headings (Heading 2) must be in Alphabets, Italic, and Font Size of 10.

You can use your own standard format also.

Author Guidelines:

1. General,
2. Ethical Guidelines,
3. Submission of Manuscripts,
4. Manuscript's Category,
5. Structure and Format of Manuscript,
6. After Acceptance.

1. GENERAL

Before submitting your research paper, one is advised to go through the details as mentioned in following heads. It will be beneficial, while peer reviewer justify your paper for publication.

Scope

The Global Journals Inc. (US) welcome the submission of original paper, review paper, survey article relevant to the all the streams of Philosophy and knowledge. The Global Journals Inc. (US) is parental platform for Global Journal of Computer Science and Technology, Researches in Engineering, Medical Research, Science Frontier Research, Human Social Science, Management, and Business organization. The choice of specific field can be done otherwise as following in Abstracting and Indexing Page on this Website. As the all Global

Journals Inc. (US) are being abstracted and indexed (in process) by most of the reputed organizations. Topics of only narrow interest will not be accepted unless they have wider potential or consequences.

2. ETHICAL GUIDELINES

Authors should follow the ethical guidelines as mentioned below for publication of research paper and research activities.

Papers are accepted on strict understanding that the material in whole or in part has not been, nor is being, considered for publication elsewhere. If the paper once accepted by Global Journals Inc. (US) and Editorial Board, will become the copyright of the Global Journals Inc. (US).

Authorship: The authors and coauthors should have active contribution to conception design, analysis and interpretation of findings. They should critically review the contents and drafting of the paper. All should approve the final version of the paper before submission

The Global Journals Inc. (US) follows the definition of authorship set up by the Global Academy of Research and Development. According to the Global Academy of R&D authorship, criteria must be based on:

- 1) Substantial contributions to conception and acquisition of data, analysis and interpretation of the findings.
- 2) Drafting the paper and revising it critically regarding important academic content.
- 3) Final approval of the version of the paper to be published.

All authors should have been credited according to their appropriate contribution in research activity and preparing paper. Contributors who do not match the criteria as authors may be mentioned under Acknowledgement.

Acknowledgements: Contributors to the research other than authors credited should be mentioned under acknowledgement. The specifications of the source of funding for the research if appropriate can be included. Suppliers of resources may be mentioned along with address.

Appeal of Decision: The Editorial Board's decision on publication of the paper is final and cannot be appealed elsewhere.

Permissions: It is the author's responsibility to have prior permission if all or parts of earlier published illustrations are used in this paper.

Please mention proper reference and appropriate acknowledgements wherever expected.

If all or parts of previously published illustrations are used, permission must be taken from the copyright holder concerned. It is the author's responsibility to take these in writing.

Approval for reproduction/modification of any information (including figures and tables) published elsewhere must be obtained by the authors/copyright holders before submission of the manuscript. Contributors (Authors) are responsible for any copyright fee involved.

3. SUBMISSION OF MANUSCRIPTS

Manuscripts should be uploaded via this online submission page. The online submission is most efficient method for submission of papers, as it enables rapid distribution of manuscripts and consequently speeds up the review procedure. It also enables authors to know the status of their own manuscripts by emailing us. Complete instructions for submitting a paper is available below.

Manuscript submission is a systematic procedure and little preparation is required beyond having all parts of your manuscript in a given format and a computer with an Internet connection and a Web browser. Full help and instructions are provided on-screen. As an author, you will be prompted for login and manuscript details as Field of Paper and then to upload your manuscript file(s) according to the instructions.



To avoid postal delays, all transaction is preferred by e-mail. A finished manuscript submission is confirmed by e-mail immediately and your paper enters the editorial process with no postal delays. When a conclusion is made about the publication of your paper by our Editorial Board, revisions can be submitted online with the same procedure, with an occasion to view and respond to all comments.

Complete support for both authors and co-author is provided.

4. MANUSCRIPT'S CATEGORY

Based on potential and nature, the manuscript can be categorized under the following heads:

Original research paper: Such papers are reports of high-level significant original research work.

Review papers: These are concise, significant but helpful and decisive topics for young researchers.

Research articles: These are handled with small investigation and applications

Research letters: The letters are small and concise comments on previously published matters.

5. STRUCTURE AND FORMAT OF MANUSCRIPT

The recommended size of original research paper is less than seven thousand words, review papers fewer than seven thousands words also. Preparation of research paper or how to write research paper, are major hurdle, while writing manuscript. The research articles and research letters should be fewer than three thousand words, the structure original research paper; sometime review paper should be as follows:

Papers: These are reports of significant research (typically less than 7000 words equivalent, including tables, figures, references), and comprise:

- (a) Title should be relevant and commensurate with the theme of the paper.
- (b) A brief Summary, "Abstract" (less than 150 words) containing the major results and conclusions.
- (c) Up to ten keywords, that precisely identifies the paper's subject, purpose, and focus.
- (d) An Introduction, giving necessary background excluding subheadings; objectives must be clearly declared.
- (e) Resources and techniques with sufficient complete experimental details (wherever possible by reference) to permit repetition; sources of information must be given and numerical methods must be specified by reference, unless non-standard.
- (f) Results should be presented concisely, by well-designed tables and/or figures; the same data may not be used in both; suitable statistical data should be given. All data must be obtained with attention to numerical detail in the planning stage. As reproduced design has been recognized to be important to experiments for a considerable time, the Editor has decided that any paper that appears not to have adequate numerical treatments of the data will be returned un-refereed;
- (g) Discussion should cover the implications and consequences, not just recapitulating the results; conclusions should be summarizing.
- (h) Brief Acknowledgements.
- (i) References in the proper form.

Authors should very cautiously consider the preparation of papers to ensure that they communicate efficiently. Papers are much more likely to be accepted, if they are cautiously designed and laid out, contain few or no errors, are summarizing, and be conventional to the approach and instructions. They will in addition, be published with much less delays than those that require much technical and editorial correction.



The Editorial Board reserves the right to make literary corrections and to make suggestions to improve brevity.

It is vital, that authors take care in submitting a manuscript that is written in simple language and adheres to published guidelines.

Format

Language: The language of publication is UK English. Authors, for whom English is a second language, must have their manuscript efficiently edited by an English-speaking person before submission to make sure that, the English is of high excellence. It is preferable, that manuscripts should be professionally edited.

Standard Usage, Abbreviations, and Units: Spelling and hyphenation should be conventional to The Concise Oxford English Dictionary. Statistics and measurements should at all times be given in figures, e.g. 16 min, except for when the number begins a sentence. When the number does not refer to a unit of measurement it should be spelt in full unless, it is 160 or greater.

Abbreviations supposed to be used carefully. The abbreviated name or expression is supposed to be cited in full at first usage, followed by the conventional abbreviation in parentheses.

Metric SI units are supposed to generally be used excluding where they conflict with current practice or are confusing. For illustration, 1.4 l rather than $1.4 \times 10^{-3} \text{ m}^3$, or 4 mm somewhat than $4 \times 10^{-3} \text{ m}$. Chemical formula and solutions must identify the form used, e.g. anhydrous or hydrated, and the concentration must be in clearly defined units. Common species names should be followed by underlines at the first mention. For following use the generic name should be constricted to a single letter, if it is clear.

Structure

All manuscripts submitted to Global Journals Inc. (US), ought to include:

Title: The title page must carry an instructive title that reflects the content, a running title (less than 45 characters together with spaces), names of the authors and co-authors, and the place(s) wherever the work was carried out. The full postal address in addition with the e-mail address of related author must be given. Up to eleven keywords or very brief phrases have to be given to help data retrieval, mining and indexing.

Abstract, used in Original Papers and Reviews:

Optimizing Abstract for Search Engines

Many researchers searching for information online will use search engines such as Google, Yahoo or similar. By optimizing your paper for search engines, you will amplify the chance of someone finding it. This in turn will make it more likely to be viewed and/or cited in a further work. Global Journals Inc. (US) have compiled these guidelines to facilitate you to maximize the web-friendliness of the most public part of your paper.

Key Words

A major linchpin in research work for the writing research paper is the keyword search, which one will employ to find both library and Internet resources.

One must be persistent and creative in using keywords. An effective keyword search requires a strategy and planning a list of possible keywords and phrases to try.

Search engines for most searches, use Boolean searching, which is somewhat different from Internet searches. The Boolean search uses "operators," words (and, or, not, and near) that enable you to expand or narrow your affords. Tips for research paper while preparing research paper are very helpful guideline of research paper.

Choice of key words is first tool of tips to write research paper. Research paper writing is an art. A few tips for deciding as strategically as possible about keyword search:



- One should start brainstorming lists of possible keywords before even begin searching. Think about the most important concepts related to research work. Ask, "What words would a source have to include to be truly valuable in research paper?" Then consider synonyms for the important words.
- It may take the discovery of only one relevant paper to let steer in the right keyword direction because in most databases, the keywords under which a research paper is abstracted are listed with the paper.
- One should avoid outdated words.

Keywords are the key that opens a door to research work sources. Keyword searching is an art in which researcher's skills are bound to improve with experience and time.

Numerical Methods: Numerical methods used should be clear and, where appropriate, supported by references.

Acknowledgements: Please make these as concise as possible.

References

References follow the Harvard scheme of referencing. References in the text should cite the authors' names followed by the time of their publication, unless there are three or more authors when simply the first author's name is quoted followed by et al. unpublished work has to only be cited where necessary, and only in the text. Copies of references in press in other journals have to be supplied with submitted typescripts. It is necessary that all citations and references be carefully checked before submission, as mistakes or omissions will cause delays.

References to information on the World Wide Web can be given, but only if the information is available without charge to readers on an official site. Wikipedia and Similar websites are not allowed where anyone can change the information. Authors will be asked to make available electronic copies of the cited information for inclusion on the Global Journals Inc. (US) homepage at the judgment of the Editorial Board.

The Editorial Board and Global Journals Inc. (US) recommend that, citation of online-published papers and other material should be done via a DOI (digital object identifier). If an author cites anything, which does not have a DOI, they run the risk of the cited material not being noticeable.

The Editorial Board and Global Journals Inc. (US) recommend the use of a tool such as Reference Manager for reference management and formatting.

Tables, Figures and Figure Legends

Tables: Tables should be few in number, cautiously designed, uncrowned, and include only essential data. Each must have an Arabic number, e.g. Table 4, a self-explanatory caption and be on a separate sheet. Vertical lines should not be used.

Figures: Figures are supposed to be submitted as separate files. Always take in a citation in the text for each figure using Arabic numbers, e.g. Fig. 4. Artwork must be submitted online in electronic form by e-mailing them.

Preparation of Electronic Figures for Publication

Even though low quality images are sufficient for review purposes, print publication requires high quality images to prevent the final product being blurred or fuzzy. Submit (or e-mail) EPS (line art) or TIFF (halftone/photographs) files only. MS PowerPoint and Word Graphics are unsuitable for printed pictures. Do not use pixel-oriented software. Scans (TIFF only) should have a resolution of at least 350 dpi (halftone) or 700 to 1100 dpi (line drawings) in relation to the imitation size. Please give the data for figures in black and white or submit a Color Work Agreement Form. EPS files must be saved with fonts embedded (and with a TIFF preview, if possible).

For scanned images, the scanning resolution (at final image size) ought to be as follows to ensure good reproduction: line art: >650 dpi; halftones (including gel photographs) : >350 dpi; figures containing both halftone and line images: >650 dpi.

Color Charges: It is the rule of the Global Journals Inc. (US) for authors to pay the full cost for the reproduction of their color artwork. Hence, please note that, if there is color artwork in your manuscript when it is accepted for publication, we would require you to complete and return a color work agreement form before your paper can be published.



Figure Legends: Self-explanatory legends of all figures should be incorporated separately under the heading 'Legends to Figures'. In the full-text online edition of the journal, figure legends may possibly be truncated in abbreviated links to the full screen version. Therefore, the first 100 characters of any legend should notify the reader, about the key aspects of the figure.

6. AFTER ACCEPTANCE

Upon approval of a paper for publication, the manuscript will be forwarded to the dean, who is responsible for the publication of the Global Journals Inc. (US).

6.1 Proof Corrections

The corresponding author will receive an e-mail alert containing a link to a website or will be attached. A working e-mail address must therefore be provided for the related author.

Acrobat Reader will be required in order to read this file. This software can be downloaded

(Free of charge) from the following website:

www.adobe.com/products/acrobat/readstep2.html. This will facilitate the file to be opened, read on screen, and printed out in order for any corrections to be added. Further instructions will be sent with the proof.

Proofs must be returned to the dean at dean@globaljournals.org within three days of receipt.

As changes to proofs are costly, we inquire that you only correct typesetting errors. All illustrations are retained by the publisher. Please note that the authors are responsible for all statements made in their work, including changes made by the copy editor.

6.2 Early View of Global Journals Inc. (US) (Publication Prior to Print)

The Global Journals Inc. (US) are enclosed by our publishing's Early View service. Early View articles are complete full-text articles sent in advance of their publication. Early View articles are absolute and final. They have been completely reviewed, revised and edited for publication, and the authors' final corrections have been incorporated. Because they are in final form, no changes can be made after sending them. The nature of Early View articles means that they do not yet have volume, issue or page numbers, so Early View articles cannot be cited in the conventional way.

6.3 Author Services

Online production tracking is available for your article through Author Services. Author Services enables authors to track their article - once it has been accepted - through the production process to publication online and in print. Authors can check the status of their articles online and choose to receive automated e-mails at key stages of production. The authors will receive an e-mail with a unique link that enables them to register and have their article automatically added to the system. Please ensure that a complete e-mail address is provided when submitting the manuscript.

6.4 Author Material Archive Policy

Please note that if not specifically requested, publisher will dispose off hardcopy & electronic information submitted, after the two months of publication. If you require the return of any information submitted, please inform the Editorial Board or dean as soon as possible.

6.5 Offprint and Extra Copies

A PDF offprint of the online-published article will be provided free of charge to the related author, and may be distributed according to the Publisher's terms and conditions. Additional paper offprint may be ordered by emailing us at: editor@globaljournals.org.

You must strictly follow above Author Guidelines before submitting your paper or else we will not at all be responsible for any corrections in future in any of the way.



Before start writing a good quality Computer Science Research Paper, let us first understand what is Computer Science Research Paper? So, Computer Science Research Paper is the paper which is written by professionals or scientists who are associated to Computer Science and Information Technology, or doing research study in these areas. If you are novel to this field then you can consult about this field from your supervisor or guide.

TECHNIQUES FOR WRITING A GOOD QUALITY RESEARCH PAPER:

1. Choosing the topic: In most cases, the topic is searched by the interest of author but it can be also suggested by the guides. You can have several topics and then you can judge that in which topic or subject you are finding yourself most comfortable. This can be done by asking several questions to yourself, like Will I be able to carry our search in this area? Will I find all necessary recourses to accomplish the search? Will I be able to find all information in this field area? If the answer of these types of questions will be "Yes" then you can choose that topic. In most of the cases, you may have to conduct the surveys and have to visit several places because this field is related to Computer Science and Information Technology. Also, you may have to do a lot of work to find all rise and falls regarding the various data of that subject. Sometimes, detailed information plays a vital role, instead of short information.

2. Evaluators are human: First thing to remember that evaluators are also human being. They are not only meant for rejecting a paper. They are here to evaluate your paper. So, present your Best.

3. Think Like Evaluators: If you are in a confusion or getting demotivated that your paper will be accepted by evaluators or not, then think and try to evaluate your paper like an Evaluator. Try to understand that what an evaluator wants in your research paper and automatically you will have your answer.

4. Make blueprints of paper: The outline is the plan or framework that will help you to arrange your thoughts. It will make your paper logical. But remember that all points of your outline must be related to the topic you have chosen.

5. Ask your Guides: If you are having any difficulty in your research, then do not hesitate to share your difficulty to your guide (if you have any). They will surely help you out and resolve your doubts. If you can't clarify what exactly you require for your work then ask the supervisor to help you with the alternative. He might also provide you the list of essential readings.

6. Use of computer is recommended: As you are doing research in the field of Computer Science, then this point is quite obvious.

7. Use right software: Always use good quality software packages. If you are not capable to judge good software then you can lose quality of your paper unknowingly. There are various software programs available to help you, which you can get through Internet.

8. Use the Internet for help: An excellent start for your paper can be by using the Google. It is an excellent search engine, where you can have your doubts resolved. You may also read some answers for the frequent question how to write my research paper or find model research paper. From the internet library you can download books. If you have all required books make important reading selecting and analyzing the specified information. Then put together research paper sketch out.

9. Use and get big pictures: Always use encyclopedias, Wikipedia to get pictures so that you can go into the depth.

10. Bookmarks are useful: When you read any book or magazine, you generally use bookmarks, right! It is a good habit, which helps to not to lose your continuity. You should always use bookmarks while searching on Internet also, which will make your search easier.

11. Revise what you wrote: When you write anything, always read it, summarize it and then finalize it.



12. Make all efforts: Make all efforts to mention what you are going to write in your paper. That means always have a good start. Try to mention everything in introduction, that what is the need of a particular research paper. Polish your work by good skill of writing and always give an evaluator, what he wants.

13. Have backups: When you are going to do any important thing like making research paper, you should always have backup copies of it either in your computer or in paper. This will help you to not to lose any of your important.

14. Produce good diagrams of your own: Always try to include good charts or diagrams in your paper to improve quality. Using several and unnecessary diagrams will degrade the quality of your paper by creating "hotchpotch." So always, try to make and include those diagrams, which are made by your own to improve readability and understandability of your paper.

15. Use of direct quotes: When you do research relevant to literature, history or current affairs then use of quotes become essential but if study is relevant to science then use of quotes is not preferable.

16. Use proper verb tense: Use proper verb tenses in your paper. Use past tense, to present those events that happened. Use present tense to indicate events that are going on. Use future tense to indicate future happening events. Use of improper and wrong tenses will confuse the evaluator. Avoid the sentences that are incomplete.

17. Never use online paper: If you are getting any paper on Internet, then never use it as your research paper because it might be possible that evaluator has already seen it or maybe it is outdated version.

18. Pick a good study spot: To do your research studies always try to pick a spot, which is quiet. Every spot is not for studies. Spot that suits you choose it and proceed further.

19. Know what you know: Always try to know, what you know by making objectives. Else, you will be confused and cannot achieve your target.

20. Use good quality grammar: Always use a good quality grammar and use words that will throw positive impact on evaluator. Use of good quality grammar does not mean to use tough words, that for each word the evaluator has to go through dictionary. Do not start sentence with a conjunction. Do not fragment sentences. Eliminate one-word sentences. Ignore passive voice. Do not ever use a big word when a diminutive one would suffice. Verbs have to be in agreement with their subjects. Prepositions are not expressions to finish sentences with. It is incorrect to ever divide an infinitive. Avoid clichés like the disease. Also, always shun irritating alliteration. Use language that is simple and straight forward. put together a neat summary.

21. Arrangement of information: Each section of the main body should start with an opening sentence and there should be a changeover at the end of the section. Give only valid and powerful arguments to your topic. You may also maintain your arguments with records.

22. Never start in last minute: Always start at right time and give enough time to research work. Leaving everything to the last minute will degrade your paper and spoil your work.

23. Multitasking in research is not good: Doing several things at the same time proves bad habit in case of research activity. Research is an area, where everything has a particular time slot. Divide your research work in parts and do particular part in particular time slot.

24. Never copy others' work: Never copy others' work and give it your name because if evaluator has seen it anywhere you will be in trouble.

25. Take proper rest and food: No matter how many hours you spend for your research activity, if you are not taking care of your health then all your efforts will be in vain. For a quality research, study is must, and this can be done by taking proper rest and food.

26. Go for seminars: Attend seminars if the topic is relevant to your research area. Utilize all your resources.



27. Refresh your mind after intervals: Try to give rest to your mind by listening to soft music or by sleeping in intervals. This will also improve your memory.

28. Make colleagues: Always try to make colleagues. No matter how sharper or intelligent you are, if you make colleagues you can have several ideas, which will be helpful for your research.

29. Think technically: Always think technically. If anything happens, then search its reasons, its benefits, and demerits.

30. Think and then print: When you will go to print your paper, notice that tables are not be split, headings are not detached from their descriptions, and page sequence is maintained.

31. Adding unnecessary information: Do not add unnecessary information, like, I have used MS Excel to draw graph. Do not add irrelevant and inappropriate material. These all will create superfluous. Foreign terminology and phrases are not apropos. One should NEVER take a broad view. Analogy in script is like feathers on a snake. Not at all use a large word when a very small one would be sufficient. Use words properly, regardless of how others use them. Remove quotations. Puns are for kids, not grunt readers. Amplification is a billion times of inferior quality than sarcasm.

32. Never oversimplify everything: To add material in your research paper, never go for oversimplification. This will definitely irritate the evaluator. Be more or less specific. Also too, by no means, ever use rhythmic redundancies. Contractions aren't essential and shouldn't be there used. Comparisons are as terrible as clichés. Give up ampersands and abbreviations, and so on. Remove commas, that are, not necessary. Parenthetical words however should be together with this in commas. Understatement is all the time the complete best way to put onward earth-shaking thoughts. Give a detailed literary review.

33. Report concluded results: Use concluded results. From raw data, filter the results and then conclude your studies based on measurements and observations taken. Significant figures and appropriate number of decimal places should be used. Parenthetical remarks are prohibitive. Proofread carefully at final stage. In the end give outline to your arguments. Spot out perspectives of further study of this subject. Justify your conclusion by at the bottom of them with sufficient justifications and examples.

34. After conclusion: Once you have concluded your research, the next most important step is to present your findings. Presentation is extremely important as it is the definite medium through which your research is going to be in print to the rest of the crowd. Care should be taken to categorize your thoughts well and present them in a logical and neat manner. A good quality research paper format is essential because it serves to highlight your research paper and bring to light all necessary aspects in your research.

INFORMAL GUIDELINES OF RESEARCH PAPER WRITING

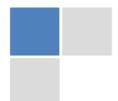
Key points to remember:

- Submit all work in its final form.
- Write your paper in the form, which is presented in the guidelines using the template.
- Please note the criterion for grading the final paper by peer-reviewers.

Final Points:

A purpose of organizing a research paper is to let people to interpret your effort selectively. The journal requires the following sections, submitted in the order listed, each section to start on a new page.

The introduction will be compiled from reference matter and will reflect the design processes or outline of basis that direct you to make study. As you will carry out the process of study, the method and process section will be constructed as like that. The result segment will show related statistics in nearly sequential order and will direct the reviewers next to the similar intellectual paths throughout the data that you took to carry out your study. The discussion section will provide understanding of the data and projections as to the implication of the results. The use of good quality references all through the paper will give the effort trustworthiness by representing an alertness of prior workings.



Writing a research paper is not an easy job no matter how trouble-free the actual research or concept. Practice, excellent preparation, and controlled record keeping are the only means to make straightforward the progression.

General style:

Specific editorial column necessities for compliance of a manuscript will always take over from directions in these general guidelines.

To make a paper clear

· Adhere to recommended page limits

Mistakes to evade

- Insertion a title at the foot of a page with the subsequent text on the next page
- Separating a table/chart or figure - impound each figure/table to a single page
- Submitting a manuscript with pages out of sequence

In every sections of your document

· Use standard writing style including articles ("a", "the," etc.)

· Keep on paying attention on the research topic of the paper

· Use paragraphs to split each significant point (excluding for the abstract)

· Align the primary line of each section

· Present your points in sound order

· Use present tense to report well accepted

· Use past tense to describe specific results

· Shun familiar wording, don't address the reviewer directly, and don't use slang, slang language, or superlatives

· Shun use of extra pictures - include only those figures essential to presenting results

Title Page:

Choose a revealing title. It should be short. It should not have non-standard acronyms or abbreviations. It should not exceed two printed lines. It should include the name(s) and address (es) of all authors.



Abstract:

The summary should be two hundred words or less. It should briefly and clearly explain the key findings reported in the manuscript-- must have precise statistics. It should not have abnormal acronyms or abbreviations. It should be logical in itself. Shun citing references at this point.

An abstract is a brief distinct paragraph summary of finished work or work in development. In a minute or less a reviewer can be taught the foundation behind the study, common approach to the problem, relevant results, and significant conclusions or new questions.

Write your summary when your paper is completed because how can you write the summary of anything which is not yet written? Wealth of terminology is very essential in abstract. Yet, use comprehensive sentences and do not let go readability for briefness. You can maintain it succinct by phrasing sentences so that they provide more than lone rationale. The author can at this moment go straight to shortening the outcome. Sum up the study, with the subsequent elements in any summary. Try to maintain the initial two items to no more than one ruling each.

- Reason of the study - theory, overall issue, purpose
- Fundamental goal
- To the point depiction of the research
- Consequences, including definite statistics - if the consequences are quantitative in nature, account quantitative data; results of any numerical analysis should be reported
- Significant conclusions or questions that track from the research(es)

Approach:

- Single section, and succinct
- As a outline of job done, it is always written in past tense
- A conceptual should situate on its own, and not submit to any other part of the paper such as a form or table
- Center on shortening results - bound background information to a verdict or two, if completely necessary
- What you account in an conceptual must be regular with what you reported in the manuscript
- Exact spelling, clearness of sentences and phrases, and appropriate reporting of quantities (proper units, important statistics) are just as significant in an abstract as they are anywhere else

Introduction:

The **Introduction** should "introduce" the manuscript. The reviewer should be presented with sufficient background information to be capable to comprehend and calculate the purpose of your study without having to submit to other works. The basis for the study should be offered. Give most important references but shun difficult to make a comprehensive appraisal of the topic. In the introduction, describe the problem visibly. If the problem is not acknowledged in a logical, reasonable way, the reviewer will have no attention in your result. Speak in common terms about techniques used to explain the problem, if needed, but do not present any particulars about the protocols here. Following approach can create a valuable beginning:

- Explain the value (significance) of the study
- Shield the model - why did you employ this particular system or method? What is its compensation? You strength remark on its appropriateness from a abstract point of vision as well as point out sensible reasons for using it.
- Present a justification. Status your particular theory (es) or aim(s), and describe the logic that led you to choose them.
- Very for a short time explain the tentative propose and how it skilled the declared objectives.

Approach:

- Use past tense except for when referring to recognized facts. After all, the manuscript will be submitted after the entire job is done.
- Sort out your thoughts; manufacture one key point with every section. If you make the four points listed above, you will need a least of four paragraphs.



- Present surroundings information only as desirable in order hold up a situation. The reviewer does not desire to read the whole thing you know about a topic.
- Shape the theory/purpose specifically - do not take a broad view.
- As always, give awareness to spelling, simplicity and correctness of sentences and phrases.

Procedures (Methods and Materials):

This part is supposed to be the easiest to carve if you have good skills. A sound written Procedures segment allows a capable scientist to replacement your results. Present precise information about your supplies. The suppliers and clarity of reagents can be helpful bits of information. Present methods in sequential order but linked methodologies can be grouped as a segment. Be concise when relating the protocols. Attempt for the least amount of information that would permit another capable scientist to spare your outcome but be cautious that vital information is integrated. The use of subheadings is suggested and ought to be synchronized with the results section. When a technique is used that has been well described in another object, mention the specific item describing a way but draw the basic principle while stating the situation. The purpose is to text all particular resources and broad procedures, so that another person may use some or all of the methods in one more study or referee the scientific value of your work. It is not to be a step by step report of the whole thing you did, nor is a methods section a set of orders.

Materials:

- Explain materials individually only if the study is so complex that it saves liberty this way.
- Embrace particular materials, and any tools or provisions that are not frequently found in laboratories.
- Do not take in frequently found.
- If use of a definite type of tools.
- Materials may be reported in a part section or else they may be recognized along with your measures.

Methods:

- Report the method (not particulars of each process that engaged the same methodology)
- Describe the method entirely
- To be succinct, present methods under headings dedicated to specific dealings or groups of measures
- Simplify - details how procedures were completed not how they were exclusively performed on a particular day.
- If well known procedures were used, account the procedure by name, possibly with reference, and that's all.

Approach:

- It is embarrassed or not possible to use vigorous voice when documenting methods with no using first person, which would focus the reviewer's interest on the researcher rather than the job. As a result when script up the methods most authors use third person passive voice.
- Use standard style in this and in every other part of the paper - avoid familiar lists, and use full sentences.

What to keep away from

- Resources and methods are not a set of information.
- Skip all descriptive information and surroundings - save it for the argument.
- Leave out information that is immaterial to a third party.

Results:

The principle of a results segment is to present and demonstrate your conclusion. Create this part a entirely objective details of the outcome, and save all understanding for the discussion.

The page length of this segment is set by the sum and types of data to be reported. Carry on to be to the point, by means of statistics and tables, if suitable, to present consequences most efficiently. You must obviously differentiate material that would usually be incorporated in a study editorial from any unprocessed data or additional appendix matter that would not be available. In fact, such matter should not be submitted at all except requested by the instructor.



Content

- Sum up your conclusion in text and demonstrate them, if suitable, with figures and tables.
- In manuscript, explain each of your consequences, point the reader to remarks that are most appropriate.
- Present a background, such as by describing the question that was addressed by creation an exacting study.
- Explain results of control experiments and comprise remarks that are not accessible in a prescribed figure or table, if appropriate.
- Examine your data, then prepare the analyzed (transformed) data in the form of a figure (graph), table, or in manuscript form.

What to stay away from

- Do not discuss or infer your outcome, report surroundings information, or try to explain anything.
- Not at all, take in raw data or intermediate calculations in a research manuscript.
- Do not present the similar data more than once.
- Manuscript should complement any figures or tables, not duplicate the identical information.
- Never confuse figures with tables - there is a difference.

Approach

- As forever, use past tense when you submit to your results, and put the whole thing in a reasonable order.
- Put figures and tables, appropriately numbered, in order at the end of the report
- If you desire, you may place your figures and tables properly within the text of your results part.

Figures and tables

- If you put figures and tables at the end of the details, make certain that they are visibly distinguished from any attach appendix materials, such as raw facts
- Despite of position, each figure must be numbered one after the other and complete with subtitle
- In spite of position, each table must be titled, numbered one after the other and complete with heading
- All figure and table must be adequately complete that it could situate on its own, divide from text

Discussion:

The Discussion is expected the trickiest segment to write and describe. A lot of papers submitted for journal are discarded based on problems with the Discussion. There is no head of state for how long a argument should be. Position your understanding of the outcome visibly to lead the reviewer through your conclusions, and then finish the paper with a summing up of the implication of the study. The purpose here is to offer an understanding of your results and hold up for all of your conclusions, using facts from your research and generally accepted information, if suitable. The implication of result should be visibly described. Infer your data in the conversation in suitable depth. This means that when you clarify an observable fact you must explain mechanisms that may account for the observation. If your results vary from your prospect, make clear why that may have happened. If your results agree, then explain the theory that the proof supported. It is never suitable to just state that the data approved with prospect, and let it drop at that.

- Make a decision if each premise is supported, discarded, or if you cannot make a conclusion with assurance. Do not just dismiss a study or part of a study as "uncertain."
- Research papers are not acknowledged if the work is imperfect. Draw what conclusions you can based upon the results that you have, and take care of the study as a finished work
- You may propose future guidelines, such as how the experiment might be personalized to accomplish a new idea.
- Give details all of your remarks as much as possible, focus on mechanisms.
- Make a decision if the tentative design sufficiently addressed the theory, and whether or not it was correctly restricted.
- Try to present substitute explanations if sensible alternatives be present.
- One research will not counter an overall question, so maintain the large picture in mind, where do you go next? The best studies unlock new avenues of study. What questions remain?
- Recommendations for detailed papers will offer supplementary suggestions.

Approach:

- When you refer to information, differentiate data generated by your own studies from available information
- Submit to work done by specific persons (including you) in past tense.
- Submit to generally acknowledged facts and main beliefs in present tense.



THE ADMINISTRATION RULES

Please carefully note down following rules and regulation before submitting your Research Paper to Global Journals Inc. (US):

Segment Draft and Final Research Paper: You have to strictly follow the template of research paper. If it is not done your paper may get rejected.

- The **major constraint** is that you must independently make all content, tables, graphs, and facts that are offered in the paper. You must write each part of the paper wholly on your own. The Peer-reviewers need to identify your own perceptives of the concepts in your own terms. NEVER extract straight from any foundation, and never rephrase someone else's analysis.
- Do not give permission to anyone else to "PROOFREAD" your manuscript.
- **Methods to avoid Plagiarism is applied by us on every paper, if found guilty, you will be blacklisted by all of our collaborated research groups, your institution will be informed for this and strict legal actions will be taken immediately.)**
- To guard yourself and others from possible illegal use please do not permit anyone right to use to your paper and files.



CRITERION FOR GRADING A RESEARCH PAPER (COMPILATION)
BY GLOBAL JOURNALS INC. (US)

Please note that following table is only a Grading of "Paper Compilation" and not on "Performed/Stated Research" whose grading solely depends on Individual Assigned Peer Reviewer and Editorial Board Member. These can be available only on request and after decision of Paper. This report will be the property of Global Journals Inc. (US).

Topics	Grades		
	A-B	C-D	E-F
<i>Abstract</i>	Clear and concise with appropriate content, Correct format. 200 words or below	Unclear summary and no specific data, Incorrect form Above 200 words	No specific data with ambiguous information Above 250 words
<i>Introduction</i>	Containing all background details with clear goal and appropriate details, flow specification, no grammar and spelling mistake, well organized sentence and paragraph, reference cited	Unclear and confusing data, appropriate format, grammar and spelling errors with unorganized matter	Out of place depth and content, hazy format
<i>Methods and Procedures</i>	Clear and to the point with well arranged paragraph, precision and accuracy of facts and figures, well organized subheads	Difficult to comprehend with embarrassed text, too much explanation but completed	Incorrect and unorganized structure with hazy meaning
<i>Result</i>	Well organized, Clear and specific, Correct units with precision, correct data, well structuring of paragraph, no grammar and spelling mistake	Complete and embarrassed text, difficult to comprehend	Irregular format with wrong facts and figures
<i>Discussion</i>	Well organized, meaningful specification, sound conclusion, logical and concise explanation, highly structured paragraph reference cited	Wordy, unclear conclusion, spurious	Conclusion is not cited, unorganized, difficult to comprehend
<i>References</i>	Complete and correct format, well organized	Beside the point, Incomplete	Wrong format and structuring



INDEX

A

Afique · 17
Astonish · 33

B

Baller · 10
Brunei · 12
Bumbia · 5

D

Darussalam · 12
Debreu · 11

E

Engendre · 12

G

Gharar · 10

L

Levesque · 36, 43

M

Manole · 12, 18
Mileva · 20, 22, 29, 31
Mudaraba · 11

O

Oshikoya · 20, 21, 29, 31
Osiewalski · 11, 18

R

Rousseau · 22, 32

V

Villanueva · 28, 29, 31
Vuthipadadorn · 22, 32

W

Wunnava · 19, 31

Z

Zitouna · 13, 15, 16, 17



save our planet

Global Journal of Management and Business Research

Visit us on the Web at www.GlobalJournals.org | www.JournalofBusiness.Org
or email us at helpdesk@globaljournals.org



ISSN 9755853

© Global Journals