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Economic Impact Assessment: A Review of Literature on the Tourism Industry

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Received: 12 February 2015 Accepted: 3 March 2015 Published: 15 March 2015

7 Abstract

⁸ By having a model of economic impact, it is possible to create scenarios to analyze in which

⁹ sectors of the economy a demand/supply shock will result in the most benefit/loss for

¹⁰ countries interested in promoting their tourism sector. Particularly useful in this task is the

analysis of multipliers for gross domestic product, added value and employment. In developing

¹² countries, tourism plays an important role, and one would therefore expect to find

¹³ corresponding studies on economic impact published in journals of high academic quality.

¹⁴ However, upon observation of important tourism journals, it is witnessed that this is not the

¹⁵ case for Latin America.

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17 Index terms— tourism industry, economic impact, multipliers.

18 1 Introduction

he economic impact of tourism refers to changes in the economic contribution resulting from specific events 19 or activities related to tourism."These changes in the economic contribution generate three types of impacts 20 or effects: direct effect, indirect effect and induced effect. The ability to estimate such impacts requires the 21 development of an economic model" ??Dwyer et al., 2010). The main economic models used to measure these 22 effects are: (a) the tourism satellite account (TSA); (b)the input-output model; (c) the social accounting model; 23 and (d) the computable general equilibrium model. a) Brief review of the economic models of the economic 24 25 contribution of tourism a. In the tourism satellite account, it is stated that it is an instrument designed to 26 provide a systematic and integrated framework of information on tourism's supply and demand rather than being the most accurate method of measuring the sector's contribution to the added value or gross domestic 27 product (GDP).In fact, the methodology developed for this is relatively simple; it considers only the direct 28 effects. The basis for the calculation of tourism added value and tourism GDP in the tourism satellite account is 29 the application of the ratio between the added value and the extent to which activities characteristic to tourism 30 participate (UNWTO, 2014). It is important to mention that the TSA represents the theoretical and informative 31 basis for the development of computable general equilibrium models. 32

Author: e-mail: akido42@hotmail.com b. Tourism spending generated by visitors to a tourist destination 33 represents an injection of money into that tourist destination. This new injection of money leads to an increase 34 in the direct effect as well as the indirect effect, which in turn impacts as an increase in economic activity of the 35 tourist destination. Almost any industry is liable to be affected by a new injection of money to some extent by 36 37 these direct and indirect effects. These effects are known as multiplier effects in the economy. A multiplier effect 38 represents the number by which a given change in tourism activity generated by tourism spending is multiplied. The size of this multiplier effect will determine the impact of tourism (positive or negative) on macroeconomic 39 aggregates such as the GDP, added value, level of income or sales, employment level and/or tax level. 40

The input-output multipliers are derived directly from the required coefficients of the matrix based on the inputoutput information tables. The added value multipliers measure the net change in the economic activity in each stage of production and represent the preferred measure, in this model, for assessing the economic contribution due to a shock on final demand ??Dwyer and Forsyth, 2010). c. The social accounting model is another means 45 of estimating the direct and indirect effects as well as the induced effects of tourism on the economy, but this 46 model presents a more complete economic structure since it includes inter-institutional transfers.

A social accounting matrix is an extension of the input-output tables that provides an additional detail in the breakdown of consumers and factors of production, and it relates the calculation of added value with its distribution by institutional sectors (Ferri and Uriel, 2004). d. The computable general equilibrium models

(CGE)represent markets of goods, services and factors of production as well as productive sectors and demand

51 groups (households). Each market, each sector and each household is governed by its own economic interests

⁵² which are what determine its final behavior when faced with external shocks. These models generate a system ⁵³ of equations that characterize the production, consumption, trade and government activities within an economy.

They incorporate the entire mechanism of the tourism satellite accounts, input-output model and the social

accounting matrix, while also incorporating the mechanism to study congestion effects among activities, markets

and sectors, and it is possible to estimate the direct, indirect and induced effects through multipliers ??Dwyer

57 and Forsyth P, 2010). The general equilibrium models are not used specifically to estimate the contribution made 58 by tourism to the GDP or to imports but rather to construct scenarios that simulate the potential impacts on

⁵⁹ the whole economic system associated with certain changes (arrivals, spending, taxation, etc.).

The estimate of the impacts generated by tourism growth by use of these models shows, generally, numbers lower than those obtained through input-output models, because in the former the inter sectoral reallocation of resources and, as a consequence, displacement effects are possible.

63 **2** II.

⁶⁴ 3 Material and Methods

This research is basically a revision analysis which, according to some methodologists such as Luborsky (1994), involves the discovery of patterns and categories in the information used.

₆₇ 4 a) Research design

Following the procedure of Xiao and Smith (2006), research papers from three databases included in the Virtual 68 Library of the Universidad Michoacana de San Nicolas de Hidalgo were consulted. Articles of a 10year period 69 ??2004) ??2005) ??2006) ??2007) ??2008) ??2009) ??2010) ??2011) ??2012) ??2013) ??2014) ??2015) in the 70 following journals were reviewed: Annals of Tourism Research (ATR), Economic Modelling (EM), Tourism 71 Management (TM) and Journal of International Tourism Research (JITR). These journals represent a wide range 72 in terms of their scope and reach of research in the area of tourism. The choice of this set of journals and the 73 time frame is mainly a reflection of the practicality and availability of sources as well as the factor of academic 74 impact. Pechlaner et al., (2004) analyzed 22 tourism and hospitality journals in terms of frequency of readers, 75 scientific relevance, practical relevance, reputation, and importance for the academic area of study, and they found 76 that, according to their criteria, "Annals of Tourism Research", "Journal of Tourism Research" and "Tourism 77 Management" were the top three choices. 78 Title, subtitle, keywords and summary (abstract) were taken into account during the initial selection of articles. 79 During the second stage of evaluation, the only articles considered were those explicitly containing the following 80 terms: "tourism satellite account models", "tourism input-output models", "tourism social accounting matrix" 81 and "computable general equilibrium models applied to tourism". Additionally, searches were performed for 82

³² and computable general equilibrium models applied to tourism. Additionally, searches were performed for
 ³³ "direct, indirect and induced tourism effects" or "tourism multipliers". It is important to mention that economic
 ³⁴ impact models (tourism satellite account, input-output, social accounting and general equilibrium) that had as

a main theme references to environment, natural resources and/or sporting events were not included in this
 evaluation as they were considered part of a matrix extension unlike measurements of the economic impact of
 tourism.

Twenty-six articles met the criteria specified in the first round of selection. On closer examination, and according to the selection criteria previously mentioned, only twenty-two articles were chosen for final analysis.

90 **5 III.**

91 6 Results

⁹² 7 a) Coding of journals

93 Table 1 describes the coding of articles selected from different journals analyzed. Six articles were selected 94 from the journal Annals of Tourism Research (ATR), three from Economic Modelling (EM), ten from Tourism 95 Management (TM) and three from the Journal of International Tourism Research (JITR). These articles were numbered sequentially in the order of volumes, page numbers and year of publication in the journal. For example, 96 the first article selected from Annals of Tourism Research is found in volume 32 on pages 367 to 385 with a length 97 of 18 pages and was published in 2009. The first article selected from the journal Economic Modelling is found in 98 volume 28 on pages 473-481 with a length of 9 pages and published in the year 2011. From Tourism Management, 99 the first article corresponds to volume 25 covering pages 307 to 317 (10 pages long) and published in the year 100

101 2004, and finally in the Journal of International Tourism Research only three items were found, of which the first 102 corresponds to volume 8 on pages 347-354 from the year 2009.

In Zhao and Brent (2007) carried out research on academic leadership in tourism research worldwide, as measured by the number of articles published in eight journals in the field of tourism between 1985 and 2004.Fifty-seven researchers were identified as the most prolific since each of them published at least 11 articles in the period under review.

Of the total of 57 leading authors on tourism, all of them were identified as having a doctoral degree level which would indicate a very strong correlation between doctoral-level education and academic leadership. These degrees were awarded by a total of 40 universities, with special notice given to Texas A & M University from which a total of 7 prominent researchers in the field of tourism have graduated. Moreover, it is worthy of special mention that these seven researchers graduated from the same doctoral program offered by the university's Department of Recreation, Park and Tourism Sciences. The University of Western Ontario takes second place with five of the leading scholars in tourism, followed by Pennsylvania State University with 4, and four universities each providing

114 2, namely Clemson University, the University of Bradford, James Cook University and Monash University.

¹¹⁵ 8 b) Characteristics and profiles of main authors

In order to describe and contrast some of the general characteristics of the authors with those found in the study of Zhao and Brent, the results on the characteristics and profiles of the main authors of this study are described in Table 2. First, by comparing the profile of academics versus non-academics, it is shown that the vast majority of these authors are academics in the sense that they are affiliated with colleges, universities or research institutions. Secondly, in terms of geographical distribution of these authors, it was found that English-speaking countries or regions dominate since the media selected for this analysis are journals exclusively in English.

¹²² 9 c) Research Methodology

The following characteristics of the published articles selectedare described in order to obtain certain homogeneity in the analysis: (1) topics and/or model used, (2) objective, place and time of research, (3) main results and/or multiplier effects. d) GDP multiplier effects / employment / income / added value / taxes / sectoral interrelation of tourism Six articles were selected from the journal Annals of Tourism Research. Two of these use the tourism satellite account, and four use a general equilibrium model.

In the first study, a tourism satellite account is used; it is published in 2004 and refers to the case of Tanzania. 128 The study emphasizes the possibility of using a "bottom-up" approach when building a satellite account and 129 points out the importance of being careful in the process of building a tourism account rather than just focusing 130 131 on the final results. Economic Impact Assessment: A Review of Literature on the Tourism Industry tourism 132 satellite account and System of National Accounts adopted by major multilateral development agencies around 133 the world so that their results can be directly comparable with the main macroeconomic aggregates produced by the system, such as gross domestic product, added value and employment. The third study is an application 134 135 of a general equilibrium model for the UK in 2006. The model was used to examine and compare the effects of increases in the key factors of production: physical capital, human capital, innovation (represented by total factor 136 productivity) and the competitive environment. The effects are calculated as the value of the change in welfare 137 through variation in productivity. The article analyzes a 1% increase in physical capital, human capital and total 138 factor productivity. 139

Two main points emerge from the results. First of all, in the case of tourism-related sectors, increases in productivity due to financial and physical capital are not substantial. This indicates that it is not important to prioritize increases in one type of capital over another. In the case of all economic sectors, the growth of human capital (labor productivity) is more beneficial than physical capital although, once again, the differences are not substantial. This means that policies should not be formulated by focusing on one particular sector independently of the others but rather must take into account the effects on all of them. The results indicate that a 59% change in added value is obtained in the subsector of hotels and motels, while restaurants obtain 73%.

The fourth study reports a computable general equilibrium model and was implemented in Brazil in 2007. The main results show that a 10% increase in foreign demand leads to increases in domestic prices of, on average, around 0.7%, which reduces consumption by about 8.5%. The increase in the welfare of Brazil is around 106 billion USD, which means that the country benefits by \$45 for every\$100of additional tourist spending (i.e.,a multiplier of 0.45 is reported). The study also emphasizes distributional effects of tourism in the country and conclude that the lowest income household benefits but less than some higher income households.

In the fifth equilibrium model, the case of Fiji published in the year 2010 is studied. The analysis describes an input-output model with the objective of estimating direct and indirect effects on the economy in a scenario of an increase of 1 million USD in tourist spending for data in periods of boom and bust. The results indicate that an increase of \$1 million in tourist spending increases revenues by \$219,000 during no expansion periods (which would correspond to the year 1967), while \$1 million in tourist spending in the poststagnation phase (2002) generates \$722,000.

Another way to assess the impact of different sectors of the economy is to examine the unweighted added value multiplier by sector over time. In absolute terms, the government sector has the highest direct multipliers followed by the art and entertainment subsector and the rental real estate sector. The food and beverage sector has a relatively low multiplier placing it between 13th and 16th place in size, but the indirect multiplier is at 3rd and 4thplace in 2002 and 2005. The lodging sector is located between the 7th and the 13th place for direct added value multiplier compared to all other industries. However, the indirect multiplier lies at sixth and seventh place in periods after 2002. The transport sector has a low direct and indirect multiplier throughout the entire time period analyzed.

When performing a comparative analysis of forward and backward linkages of tourism sectors, it is found that, 167 in general, these sectors have weak forward links. The lodging industry presents a forward link index ranging 168 from 0.74 to 0.81, while in the food and beverage sector a Rasmussen index was estimated ranging from 0.77 to 169 0.87. The real estate and rental subsector is the sector with a tourist vocation that has strong forward linkages. 170 The sixth model refers to a general equilibrium model whose main objective was to analyze the impact on 171 tourism of the recent boom in mining activity in Australia and was published in the year 2014. This paper 172 examined how Australian tourism is affected by the country's mining boom. However, the effect is different 173 for each of the subsectors related to tourism. Tourism can be considered an input (export) industry and as an 174 output (import) industry. Domestic tourism and outbound tourism are imperfect substitutes for each other. The 175 exchange rate appreciation makes Australia a tourist destination with a higher price and therefore less competitive 176 177 from the perspective of the rest of the world.

The positive income effect since the mining boom produces a long-term benefit for domestic tourism (increasing annually up to 0.49%). This occurs mainly by means of an increase in household incomes, consumption and the additional demand for tourism services associated with the air and land transport sector.

The average long-term increase in outbound tourism (around 1.15% per year) is more than double the rate of increase in demand for domestic travel.

The exchange rate appreciation effect varies depending on the source markets and on the segments and purpose of the visit. For example, during the period 2000-2010, the changes in spending and in the number of international tourist visitors to Australia are not uniform. While some countries have experienced declines in the number of visitors, especially Japan and some European countries, there have been some real success stories, as is China. The number of Chinese tourists has increased, but the 45% appreciation of the Australian dollar against the Chinese renminbi is associated with a decline in spending per visitor of 38%.

100 Chillese remained is associated with a decline in spending per visitor of 5070.

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¹⁹¹ 11 (B)

Economic Impact Assessment: A Review of Literature on the Tourism Industry This phenomenon has also occurred in other main source markets: United Kingdom (-29%), USA (-44%), New Zealand (-17%), Japan (-32%) and Indonesia (-29%).

Three articles were consulted from the journal Economic Modelling, two of which are about computable general equilibrium models and one develops an input-output model.

The first study of general equilibrium refers to Hawaii's economy in the year 2011. The simulation of a 10% increase in Hawaii's tourist spending would cause an increase of 9.1% in gross state product and an increase of 2.1% in the total economy. Also it would cause a2.43% increase in the locality's employment.

The second general equilibrium model is applied to situations of uncertainty in the US economy in 2013. An interesting scenario that models the role of uncertainty could be a hypothetical boom in tourism demand. Where there is an asymmetric shock, the possibility of a future tourism demand increase results in a welfare loss of 2.7 million USD, which reflects the nonlinear behavior of the model.

An additional scenario modeling symmetrical effects (50% probability of a 10% increase in tourism and 50% probability of a 10% decline in tourism) generates once again an overall marginal increase of 2.7 million USD in economic welfare, reflecting the adverse character of the agents.

The third input-output study includes as case studies Brazil, the United States and China and was published in 2014. The results show that a 10% increase in final demand generates an average multiplier effect of 1.5 on the Brazil's GNP, highlighting the refined petroleum subsector with a multiplier of 1.96 in contrast to the electrical and optical equipment sub sector which has a multiplier of 1.72. In the case of China, the average effect on the economy is 2.09, with the highest multiplier effect (2.61) on the electrical and optical equipment sub sector and the least effect (2.39) on construction. Finally, the US economy would experience an average multiplier effect of 1.76, where the food and beverage sector has a multiplier of 2.02 and the textile sector 1.77.

Ten articles were selected from the journal Tourism Management, five of which use general equilibrium models, and five of which use input-output models.

The first study published in 2004 documents the advantages and disadvantages of the use of inputoutput models versus the computable general equilibrium model, indicating a preference for the use of the latter.

The second study focuses on the economy of Scotland and was published in 2006 using a general equilibrium model. The prognosis for change in the international tourism expenditure would increase the GDP to 34.3 million

 $_{220}$ $\,$ GBP and generate 3,737 full time jobs in Scotland. The UK government would receive 58.3 million GBP in tax

revenue. The additional expenditure by visitors from the United States would lead to an increase in GDP of up to 6.3 million and would generate 677 additional jobs. Finally, the effects of the appreciation of the US dollar against the pound sterling would lead to a4.4 million reduction of the Scottish GDP.

The third case study corresponds to the economy of Taiwan in 2007. The objective was to model the effect of the installed capacity on the country's tourism industry under an input-output model. In 1999, the average occupancy rate was 62% and the proportion of jobs in relation to total sales was 0.4972. This proportion would rise to 0.6681 if the employment rate decreased by 42%. Furthermore, this ratio would drop to 0.3436 if the employment rate increased to 87%. The proportion of revenue in relation to total sales is less sensitive to changes in hotel occupancy since they range between 0.38 and 0.44 in reference to the same variation range in employment rate (between 42% and 87%).

By using the information from income multipliers in relation to sales, it is found that the type I multipliers (direct and indirect effects) remain constant with respect to occupancy rates, while type II multipliers (direct, indirect and induced effects) may vary up to 73% in relation to the base year when occupancy rates fluctuate between 42% and 87%. The variation is due to the change in income rates (the percentage of sales is transferred as compensation to employees) in the hotel sector, which subsequently leads to significant induced effects.

The type I employment multiplier differs substantially since it stands within the range of 1.01 (for every 1 million USD in sales) with an occupancy rate of 42% up to a multiplier of 0.56 jobs per \$1million in sales with an occupancy rate of 82%. The type I income multiplier is more stable since it has a range with a maximum difference of 6% in relation to the base amounts for hotel occupancy which were defined as between 42% and 82%.

These mixture of results are summarized as business exercising constant economies of scale, I-O impacts are unbiased but for services following economies of scale traditional I-O models are biased and they must be taken into account.

The fourth article was published in 2009 and uses a general equilibrium model applied to the country of Bali. 244 The objective was to measure the effect of a decline in international tourism on the economy of Bali due to a series 245 of bombings. The results suggest that in Bali the GDP could decline 2.33% while in Jakarta and Yogyakarta 246 the corresponding quantities are 0.35% and 0.27%. Employment in Bali fell by 4.93%, household consumption 247 decreased around 4.68%, investment dropped by 6.79%, exports fell by 16.34% and imports suffered a decline of 248 8.95%. The fifth study refers to a general equilibrium model applied in New Zealand and was published in 2012. 249 250 It models the effect that an increase in oil prices would have on tourism. The available gross national income 251 decreases by 1.7% when, as an international reference, the international price of oil doubles; in addition, there is a 9% decrease in the real value of exports from tourism services. As a result of rising oil prices, there are several 252 impacts due to the exchange rate and elasticities, but it is clear that this phenomenon affects all segments of 253 visitors to New Zealand, particularly visitors from the UK. 254

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The sixth study was published in the year 2012 and carried out a study of social accounting matrix for the 256 Turkish economy. The main objective of the study was to estimate the impact on the economy as measured by 257 product, added value and tourism employment. The total expenditure of foreign tourists was about 1.3 million 258 USD in 1996 and about \$1.9 million in 2002. The full impact of international tourism expenditure on production 259 was 1.054% of total production in 1996 and 1.049% of total production in 2002. The total impact of international 260 tourism demand on the global added value was 0.896% of the GDP in Finally, the impact on employment as a 261 percentage of total employment was 0.58% in 1996 and 0.61% in 2002. As for the number of job positions, there 262 263 were117,983 positions in 1996 and 130,541 positions in 2002. One billion new Turkish Liras (YTL) in spending 264 by international tourists generates 0.9 jobs in 1996 and 0.8 in 2002.

The seventh document examines a general equilibrium model for the economy of Singapore in 2013. The main objective was to evaluate the impact on the national economy by the public policy on tourism. The simulation results show that the policies are effective, but the effectiveness varies between the different policies. In terms of the real GDP, the tax refund policy on tourists' purchases and the policy of subsidies on investment in the tourism industry have a similar effect, but the first generates less tax revenue for the state. Considering the same loss of tax revenue from tourism subsidy policies, the policy of tourism expenditure deduction from both goods and local tourism services can significantly induce a higher GDP growth.

If total tourism expenditure is considered rather than real GDP, the tax deduction policy on purchases is 272 higher than the other two subsidy policies. At the sectoral level, the basic tourism sectors and those closely 273 274 related to tourism experience positive effects with the three types of policies analyzed especially the lodging 275 and clothing sectors. However, most of the manufacturing sectors and those unrelated to tourism are negatively 276 affected, with the exception of the electricity and real estate sectors and nonprofit sectors. Generally speaking, 277 the policy of tax deduction on the purchase of tourism goods and services is more effective than the policy of subsidy on investment in the tourism industry and the subsidy policy of support and development assistance 278 with events and tourism fairs. 279

The eighth article applied a general equilibrium model in Australia for the year 2014. The objective was to analyze the impact on the economy before and after the implementation of a fee charged to passengers departing from the country. The overall effect of the increase in the price of visiting the country is modeled under two demand price elasticity scenarios, the first assuming an elasticity of -0.5 and the second simulating the effects of an elasticity of -1.0. In the first scenario, with an elasticity of -0.5, a tourist tax increase of 17% has a positive impact (via tax collection) on the GDP of 2.21 million USD and a positive impact on welfare of \$49.8 million.

286 However, this same increase has a negative impact on the tourism industry. The tourism product declines\$8.5 million, the real tourism GDP suffers a fall of \$4.5 million and a total of 66 full-time direct jobs are lost. Under 287 the scenario of a -1.0 price elasticity of the tourism demand, the positive effects on the domestic product and 288 welfare of the whole economy are\$4 million and 51 million respectively, mainly due to the increased tax collection. 289 The tourism sector loses 12.3 million in its product, and the real tourism product decreases to 6.46 million. A 290 total of 95 direct jobs are no longer generated. The results confirm that the tourism industry will be negatively 291 affected, although the Australian economy will gain in general. Therefore, a conflict of interest is likely between 292 the tourism sector in particular and the whole economy. The study aims to inform on the positive and negative 293 effects of an increase on the tax for departing the country. 294

The ninth study was applied in 2014to the hotel and restaurant sector for a group of OECD member countries. The objective was to estimate the tourist multipliers in their respective economies. The result is a description of the process for obtaining the multiplier for the industry of hotels and restaurants with high explanatory power. The significant explanatory variables found are: population, GDP per capita, and percent of imports on the GDP.

Finally, the tenth article refers to a study of the social accounting matrix for 2014 in the region of Galicia in Spain. The main objective was to estimate the tourism demand's effect on the income of the region's inhabitants. The results show significant positive effects across all income groups. However, high-income households benefit more than those with low incomes, contributing to a slight increase in income inequality in the region. Economic Impact Assessment: A Review of Literature on the Tourism Industry with type II multipliers. The results show that 1.64% of the gross national product, 1.40% of household income and 1.01% of employment depends on international tourism.

The second is an article published in 2009 for the case of South Korea after applying an input-output matrix to the exhibition industry. In summary, the total exhibition receipts of US\$645.7 million produced US\$1.2 billion in output; 21 692 full-time equivalent jobs, US\$260 million in personal income for residents, US\$577.4 million in value-added, US\$54.2 million in indirect tax and US\$104.3 million in imports.

The third article was published in 2014 and used an input-output model to measure the impact of tourism in the different provinces of China. Due to the larger multiplier effects, the most economically developed provinces will experience greater economic benefits as a result of new increases in tourism. However, some economically less developed provinces also experience benefits from an increase in tourism. Increases in visitor arrivals in these provinces have the potential to benefit both the tourism sectors as well as the sectors that demand and supply inputs and services to these industries. This is an attractive source of economic development in less developed provinces.

318 IV.

319 13 Conclusions

After reviewing and describing the published works, it is important to note that of all the selected articles almost 50% refer to studies based on inputoutput models and social accounting while the remaining 50% are based on computable general equilibrium models. Only two studies were found for a Latin American country: Brazil. No studies were found for Mexico. The effects of tourism on the economy are clearly displayed whether one type of model or another is used. However, changes in supply and/or demand in an economy could modify input-output structures through price factors, productivity of factors of production and input ratio, making important to work with the dynamics of the markets when necessary.

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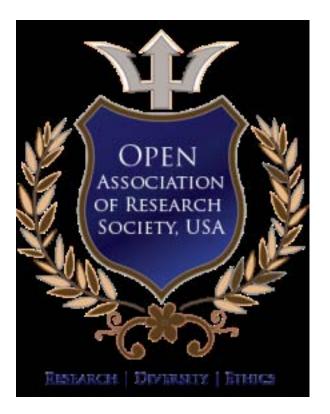


Figure 1:

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ATR	EM	TM	JITR	
		Figure 2: T	able 1 :	
2				
NAME	ACAD C DEGR		NE UNIVERSITY N DEGREE WAS OBTAINEI	WH ERE VERSITY WHERE D EMPLOYED
Denise Elby	DEGI			
Konan	Ph.D.			
Adam Blake (appears in three articles)	Ph.D	Economics & Econometri	University Of Nottingham	Bournemouth University
tillee articles)		cs	L	
Stephen Pratt	Ph.D		University Of Nottingham	The University Of The Sout Pacific
(appears in three articles)				
Peter Forsyth (appears in			Monash University, Australi	ia
three articles)				
Douglas C.	Ph.D.	Philosophy	The George Washington	
Frechtling			University, Washington D.C).

Figure 3: Table 2 :

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