



ADAMR

**2nd International
Conference On
NEW DIRECTIONS
IN MULTIDISCIPLINARY
RESEARCH & PRACTICE**

May 12-13, 2016
Istanbul Gonen Hotel Istanbul Turkey

Organised by:



GLOBAL ILLUMINATORS

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2nd International Conference on New Directions in Multidisciplinary
Research & Practice (NDMRP-May,12-13 , 2016)
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NDMRP 2016

Conference Proceeding

Book of Papers

**2nd International Conference on
New Directions in Multidisciplinary Research & Practice**

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Editor:

Dr Ahmad Saddam Ph.D,

Country Director (Global Illuminators Iraq)

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(Global Illuminators)

On Chee Hoong

Manager Operations (Global Illuminators)

Conference Chair Message

Farooq Ahmed Jam (PhD)

2nd International Conference on “New Directions In Multidisciplinary Research & Practice” (NDMRP-2016) serves as platform that aims to help the scholarly community across nations to explore the critical role of multidisciplinary innovations for sustainability and growth of human societies. This conference provides opportunity to the academicians, practitioners, scientists, and scholars from across various disciplines to discuss avenues for interdisciplinary innovations and identify effective ways to address the regional and global challenges faced by our societies. The research ideas and studies that we received for this conference are very promising, unique, and impactful. I believe, these studies have the potential to address key challenges in various sub-domains of social sciences and applied sciences. The scholars attending this conference will certainly find it helpful in refining their own research ideas, finding solutions to basic/applied problems they face and interact with other renowned scholars for possible future collaborations.

I am really thankful to our honourable scientific and review committee for spending much of their time in reviewing the papers for this event, selecting the best paper awards and helping the participants in publishing their research in affiliated journals. Also special thanks to all the session chairs from industry, academia and policy-making institutions who volunteered their time and support to make this event a success.

A very special thanks to the great scholars for being here with us as key note speakers. Their valuable thoughts will surely open the horizon of new research and practice for the conference participants coming from across the globe. I am also thankful to all the participants for being here with us to create an environment of knowledge sharing and learning. We the scholars of this world belong to the elite educated class of

this society and we owe a lot to return back to this society.
Let's break all the discriminating barriers and get free from all
minor affiliations. Let's contribute even a little or single step
for betterment of society and welfare of humanity to bring
prosperity, peace and harmony in this world. Stay blessed.

Type of NDMRP Papers

For this year, NDMRP has two types of papers: *Empirical Studies* and *Insight*. Research papers meet the needs of researcher and reviewed on the basis of highest academic standards. The objective of the academic paper is to contribute in the scientific body of knowledge. Contrary, Inside papers meet the needs of policy makers and professionals and reviewed on the basis of high practical standards. The objective of the Insight is to identify the real world problems and how can solve with the help of information systems.

Reviewing Criteria

In NDMRP all papers are used to judge on the criteria (relevance, significance, originality, validity and clarity). However some criteria differ between the Research papers and Insight papers.

Relevancy: Relevancy has a great impact on the theme of the conference. The material is relevant and according to the theme of the conference.

Significance: Knowledge in different researches in the conference is related to research papers and insight papers.

Originality: Ideas that are new for the researchers are used in the conference.

Validity: Research papers in the conference are based on theory while the insight papers in the research are based on experimental researches. References are according to content.

Clarity: Papers are according to the format, language is easy and understandable by the audience in the conference.

Acceptance Rates

| Full Research Papers | | | | |
|----------------------|-----------------|-----------|--------------------|-----------------|
| Submitted Papers | Accepted Papers | Withdrawn | Unqualified papers | Acceptance Rate |
| 105 | 42 | 10 | 53 | 50% |

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Acknowledgment

A huge numbers of people helped in conducting the conferences. First of all thanks to all the members of the Conference and Program Committee and representatives of the NDMRP board and their helpers. We also want to thank all the Track Chairs, Track Co-Chairs and reviewers, as well as all the member of the Scientific Committee for their help in the review process and organizing the tracks and special sessions. We thank everyone for their hard work and dedication to this conference and we look forward to the latest episode of the NDMRP tradition.

Farooq Ahmed Jam (PhD), Tariq Iqbal Khan (PhD)
Program Chair & Co-Chair

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SCIENTIFIC REVIEW COMMITTEE
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KEYNOTE SPEAKER

Prof.Dr. Dieter Bögenhold



Prof. Dr. Dieter Bögenhold (Diploma 1979, Ph.D. 1984, habilitation 1993), Faculty of Sociology, Bielefeld University, Germany. He has taught and carried out research at different universities in a variety of countries, currently professor in

the Faculty of Economics at the Alpen-Adria-University at Klagenfurt, Austria, and Head of the Department of Sociology.

Research in the areas of general socioeconomics, interdisciplinary studies, economic sociology, history of economic thought, economic development, entrepreneurship, management, innovation, consumption and life-styles, globalization, social stratification and inequality. Member of the board of diverse associations and journals. Teaching in faculties of economics, business administration and sociology. He has published more than 200 contributions including numerous books, book editions and papers in refereed journals.

NDMRP 2016 Track's Chairs

Business Management, Economic Studies & Social Science & Humanities

Tariq Iqbal Khan & Dieter Bögenhold

Health and Medicine Studies

Ayoub Yousefi & Yi-Chun Lin

Engineering & Technology Studies, Physical, Applied and Life Sciences

Sevgi Aydin & Abdulkadir Kaila Umar

NDMRP 2016 Panels

“Role of Academic Research in Development of Local Community”

Academic Community Relationship

Moderator: Dr. Tariq Iqbal Khan, Pro.Dr. Dieter
Bögenhold

The Panel members will be involved in discussion related to: identified critical issues in community-based research initiatives; discussed models and strategies for identifying and using resources; examined ownership and politics affecting community development; the role of government in community development; and, identified additional elements that should be addressed in community development. Academic research has emerged in the past decades as an marginal research paradigm, which integrates education and social action to improve education and reduce educational disparities.

This panel discussion focuses on these challenges as a dynamic and ever-changing context of the researcher-community relationship, provides examples of these paradoxes from work in tribal communities, discusses the evidence that a proper and authentic academic research reduces disparities, and recommends transforming the culture of academia to strengthen collaborative research relationships.

Best Paper Nominee List

The Effect of Regulation on Large Retail Stores by Cournot Duopoly Model

*Kim, Giseung, Kim, Yoonhwan**

Pusan National University, Republic of Korea

The Impact of Cross-Border E-Commerce On International Trade

Ayoub Yousefi

King's University College, Western University Canada

Comparative Performance Analysis of Flower Pollination Algorithm and Harmony Search based strategies: A Case Study of Applying Interaction Testing in the Real World

AbdulRahman A. Alsewari

Universiti Malaysia Pahang, Malaysia

Time Management and Academic Challenge among Resilient Students

*Dian-Fu Chang, Yi-Chun Lin**

Tamkang University, Taiwan

Energy Balance and its Relationship with Metabolic disease in Bangladeshi Middle-aged Women

Malik Syeda Umme Fahmida, Begum,*

Musammatt, Kulsuma

University of Science and Technology, Sylhet,
Bangladesh

**Financial Statements' Analysis of the Furniture
Manufacturing Sector in Turkey**

Sevgi Aydin, Gizem Kaymak

Kadir Has University, Turkey

**The Impact of Digital Divide on the Access and
Utilization of Information and Communication
Technology in Nigeria**

Abdulkadir Kaila Umar, Baffa Alhaji Dodo*

Jigawa State College Of Education Gumel, Jigawa State
Nigeria

NDMRP 2016 Best Paper Award Winner

The Impact of Cross-Border E-Commerce on International Trade

Ayoub Yousefi

King's University College, Western University Canada

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Conference Co- Chair

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Director Global Operations (Globalilluminators)

Editor

Dr Ahmad Saddam (Ph.D)

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CONFERENCE PROGRAM

DAY 01 Thursday (May 12, 2016)
Welcome Reception & Registration
8:00 am – 8:30 am

Opening Ceremony (08:45 am – 10:00 am)
Venue: Room 1

| | |
|--------------------|--|
| 08:45 am – 9:00 am | Welcome Remarks – Ms Hendrati Dwi Mulyaningsih Head of Org. Committee NDMRP-2016 Country Director Global Illuminators Indonesia |
| 09:00 am – 9:15 am | Opening Speech – Dr. Tari Iqbal Khan Conference-Co-Chair- NDMRP-2016 Director Global Operations Global Illuminators |
| 09:15 am – 9:35am | Keynote Speech- Prof. Dr. Dieter Bögenhold Head of the Department of Sociology Alpen-Adria-University at Klagenfurt, Austria |
| 09:35 am - 9: 45am | Group Photo & Award Ceremony |

Grand Networking Session and Tea Break (09:45 am – 10:00 am)

DAY 01 Thursday (May 12, 2016)
Session 1 (10:00 am – 1:00 pm)
Venue: Room 1

Session Chairs: Tariq Iqbal Khan & Dieter Bögenhold

Track: Business, Management, Economics Studies & Social Sciences

| | | |
|--------------|---|-------------------------------|
| NDMRP-16-107 | Utilities, Prices, and Households | Arthur Dambischi |
| NDMRP-16-121 | The Effect of Regulation on Large Retail Stores by Cournot Duopoly Model | Kim, Yoonhwan Kim, Giseung |
| NDMRP-16-123 | Pursuing University World Rankings: the Balance Between Researching and Teaching for University Faculty | Peirchyi Lii |
| NDMRP-16-145 | The Impact of Cross-Border E-Commerce on International Trade | Ayoub Yousefi |
| NDMRP-16-162 | The Role of Student Faculty Interaction and Student Attrition in Private Universities in Nairobi County Kenya | Mary Mukami Njoroge |
| NDMRP-16-164 | Examining Housing Affordability Issues in Malaysia | Mohd Arif Mat Hassan |

Lunch Break (1:00 pm – 2:00 pm)

DAY 01 Thursday (May 12, 2016)
Session 1 (10:00 am – 1:00 pm)
Venue: Room 1

Session Chairs: Tariq Iqbal Khan & Dieter Bögenhold

Track: Business, Management, Economics Studies & Social Sciences

| | | |
|--------------|--|----------------|
| NDMRP-16-200 | The Development of Business Cooperation in Thailand Regarding to the German Entrepreneur Opinion | Nattaya Nulong |
| NDMRP-16-203 | The Effect of Financial Performance on Social and Environmental Reporting Performance | Sevgi Aydin |
| NDMRP-16-204 | Financial Statements' Analysis of the Furniture Manufacturing Sector in Turkey | Sevgi Aydin |
| NDMRP-16-186 | The Polygamy:A Comparative Study of Two Grounds, Such as Turkey and Algeria | Emine Asan |
| NDMRP-16-189 | Time Management and Academic Challenge among Resilient Students | Yi-Chun Lin |

Lunch Break (1:00 pm – 2:00 pm)

DAY 01 Thursday (May 12, 2016)
Panel Discussion Session (2:00 pm – 3:00 pm)
Venue: Room 1
Panel Discussion* on

“Role of Academic Research in Development of Local Community”
Academic Community Relationship

| | |
|---------------------|---|
| Panellists | Dr. Tariq Iqbal Khan Pro. Dr, Dieter Bögenhold |
| Participants | All Participants |

The Panel members will be involved in discussion related to: identified critical issues in community-based research initiatives; discussed models and strategies for identifying and using resources; examined ownership and politics affecting community development; the role of government in community development; and, identified additional elements that should be addressed in community development. Academic research has emerged in the past decades as an marginal research paradigm, which integrates education and social action to improve education and reduce educational disparities.

This panel discussion focuses on these challenges as a dynamic and ever-changing context of the researcher-community relationship, provides examples of these paradoxes from work in tribal communities, discusses the evidence that a proper and authentic academic research reduces disparities, and recommends transforming the culture of academia to strengthen collaborative research relationships.

DAY 01 Thursday (May 12, 2016)

Session 2 (3:00 pm – 4:00 pm)

Venue: Room 1

Session Chairs: Ayoub Yousefi & Yi-Chun Lin

Track: Health and Medicine Studies

| | | |
|--------------|--|-----------------------------|
| NDMRP-16-134 | Energy Balance and its Relationship with Metabolic Disease in Bangladeshi Middle-Aged Women | Malik Syeda Umme Fahmida |
| NDMRP-16-137 | Nurses Management Competences in Disaster Relief: A Qualitative Study | Fatemeh Aliakbari |
| NDMRP-16-199 | The Study of Chinese Herbal Formula Cordyceps by a Multidisciplinary Fingerprinting Platform | Ian C. Hsu |

Tea Break: 4:00 pm – 4:15 pm

DAY 01 Thursday (May 12, 2016)
Session 3 (4:15 pm – 5:15 pm)
Venue: Room 1

Session Chairs: Sevgi Aydin & Abdulkadir Kaila Umar

Track: Engineering,Technology Studies & Physical Life and Applied Sciences

| | | |
|--------------|--|--------------------------|
| NDMRP-16-129 | The Impact of Digital Divide on the Access and Utilization of Information and Communication Technology in Nigeria | Abdulkadir Kaila Umar |
| NDMRP-16-139 | Comparative Performance Analysis of Flower Pollination Algorithm and Harmony Search Based Strategies: A Case Study of Applying Interaction Testing in the Real World | Abdul Rahman A. Alsewari |
| NDMRP-16-170 | Observations on Invertebrate Fauna Encountered in Some Agricultural Crops | Mocanu Ionela |

DAY 01 Thursday (May 12, 2016)
Doctoral Colloquium (5:15 pm – 5:45 pm)
Venue: Room 1

Session Chairs: Tariq Iqbal Khan

| | | |
|--------------|--|--------------------------------|
| NDMRP-16-121 | The Effect of Regulation on Large Retail Stores by Cournot Duopoly Model | Kim, Yoonhwan. Kim, Giseung |
| NDMRP-16-170 | Observations on Invertebrate Fauna Encountered in Some Agricultural Crops | Mocanu Ionela |
| NDMRP-16-176 | Interprofessional Education for Improving Interprofessional Collaboration of Health Professions | Fatemeh Keshmiri |
| NDMRP-16-200 | The Development of Business Cooperation in Thailand Regarding to the German Entrepreneur Opinion | Ms. Nattaya Nulong |

Closing Ceremony: 5:45pm to 6:00pm

LIST OF CONFERENCE ATTENDEE

The following scholars/practitioners/educationists don't have any paper presentations; however they will be attending the conference as delegates and observers.

| ID | Name | Affiliation | Country |
|---------------|---------------|--|----------------|
| NDMRP-16-183A | Ayman Aljawad | Cardiff university, Dental school, Cardiff, UK | United Kingdom |

DAY 02 Friday, (April 21, 2016) **“CITY TOUR”**

Gathering of Participants at the Lobby of Istanbul Gonen Hotel Istanbul,
Turkey at 2:00 pm

Departure: 2:30 pm for City Tour

Drop Back at Istanbul Gonen Hotel Istanbul, Turkey, at 9:00 pm

Important Note: This tour is organized by Global Illuminators and entry to this tour is free for all participants. You may also bring your Siblings/Family/Friends but you have to register for them on registration desk on day 1 of conference.



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Abstract Proceeding Book
NDMRP- May 12-13, 2016
Istanbul, Turkey
ISBN: 978-969-9948-47-3

TRACK A: BUSINESS MANAGEMENT & ECONOMIC STUDIES



The Effect of Regulation on Large Retail Stores by Cournot Duopoly Model

Kim, Giseung^{1*}, Kim, Yoonhwan²

^{1,2} Pusan National University, Republic of Korea

Abstract

The purpose of this study is to analysis impact of business regulation on Large Retail store, applying to Cournot Duopoly Model. The main result of analysis is as in the following. This study supposes that there are two economic market participant, Large retail store and Traditional market. In case of implementing the business regulation on large retail store, its reaction curve changes. Consequently, large retail store's output reduces and traditional market's output increases. In Nash equilibrium, consumer surplus declines, because of decrease in gross equilibrium output and growth in equilibrium price. And profit of large retail store rises, but traditional store's profit diminishes.

Keywords: Cournot duopoly model, Business regulation, Distribution industry.

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Pursuing University World Rankings: The Balance between Researching and Teaching for University Faculty

Peirchyi Lii*

School of Business and Management,
Tamkang University, Taiwan

Abstract

The development of higher education is an important index to a nation's economic and social progress. As a result, most governments have allocated a lot of budget to upgrade the performances of higher education. One of the key indices to assess the performances of higher education is to look at the university world rankings. Consequently, politicians as well as university administrators take world rankings as an indication of their achievements (Hazelkorn, 2013). There is quite a dispute, however, regarding the real effects of aggressively pursuing university world rankings on certain aspect of the mission of a university (Wang, 2009), i.e., the responsibility of providing quality education to young generations. In fact, one of the prevailing arguments against it is that climbing up world rankings would probably sacrifice teaching and counseling toward students, especially to undergraduate students. Way back to 1990, Ernest L. Boyer, serving as the president of the Carnegie Foundation for the Advancement of Teaching, thoroughly discussed the fundamental purpose of a university and foresaw that the 1990s would be the decade of the undergraduate in American higher education. The reason why undergraduate teaching had been emphasized was because university students had been losers under the working systems of academic communities in which research was the priority of the professoriate. Consequently, the proclamation of 'university students were losers' would probably continue to be a problem for universities staring at the university world rankings. This paper will look at the situation in Taiwan and peek at the possible impacts of the pursuit of university world rankings.

Keywords: Higher Education, Rankings, Social Progress

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The Impact of Cross-Border E-Commerce on International Trade

Ayoub Yousefi*

King's University College
Western University, Canada

Abstract

This study investigates whether the growing cross-border electronic commerce increases the volume of international trade or merely replaces the traditional mode of physical delivery. We carry out a comparative statistical analysis of Total trade and trade in digitizable products by developed and developing countries. The study suggests that developing countries have in the recent past penetrated into developed countries' markets and made up for the decline in their market share of world Total trade as well as trade in digitizable products. As a result, electronic delivery of digital products promises benefitting developing countries by gaining deeper access to international markets. We argue that given its current magnitude, market efficiency, and growth trajectory, especially in developing countries, cross-border electronic commerce offers an 'additional' basis for explaining the flow of international trade. This study has been supported by a research grant provided by King's University College at Western University, Canada.

Keywords: E-Commerce, Cross-Border E-Commerce, Digital Delivery, Digitizable Products, Services

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The Role of Student Faculty Interaction and Student Attrition in Private Universities in Nairobi County Kenya

Mary Mukami Njoroge^{1*}, Tabitha Wang'eri², Christine Gichure³

^{1,3} Strathmore University, Kenya

² Kenyatta University, Kenya

Abstract

The purpose of this study was to investigate the relationship between student faculty interaction and student attrition in private universities in Nairobi County, Kenya. The study was informed by Tinto's (1975) student integration theory and Bean's (1980) student attrition model. The study sample consisted of 387 current and 60 dropout students of 13 private universities in Nairobi, Kenya. Data were collected through a paper based questionnaire and in-depth interviews. The study established attrition levels of 37%. The results also showed a negative significant relationship between student faculty interaction and student attrition rate ($p=.03$). The study makes various multifaceted recommendations on how to control student attrition. The findings of this study are significant to university administrators, counselors and mentors in higher education institutions. Policy makers will also find these results valuable in the search for appropriate remedial action for the problem of student attrition.

Keywords: Student- Faculty- Interaction, Attrition, Private Universities, Examination Retakes, Deferment of Studies, Drop Out.

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Examining Housing Affordability Issues in Malaysia

Mohd Arif Mat Hassan*

National Institute of Valuation (INSPEN), Malaysia

Abstract

Owning a home is becoming a basic necessity. There are several factors that affect the ability of home ownership. One of the factors is the price of houses which is seen increasing yearly in Malaysia. According to the Malaysian House Price Index (MHPI) released by the National Property Information Centre (NAPIC), there is an increase of 3-5% per annum. A significant increase occurred in 2012, which accounted for 11.8% and this raises concerns for Malaysians and it became an issue that is often discussed. Therefore, this study aims to identify the factors of rising house prices and the impact of rising house prices on the housing affordability. The study also aims to identify the government measures of controlling house prices. A study on three selected states in Malaysia had been made through questionnaires. A total of 1,744 respondents expressed their opinions and perceptions regarding the housing affordability issues and government interventions. The study also looked at the implementation of government policies and measures that have been taken by the government to control house prices. Based on previous literatures, housing affordability can be measured by several methods. The main method is to use a ratio method by comparing the house prices to household income. House price-to-income ratio method is widely used by researchers and acknowledged by the World Bank and the United Nations. It is also used by the Harvard University Joint Centre for Housing Studies. The increase of house prices that are not in parallel with the increase in household incomes is clearly affecting the housing affordability in Malaysia. The affordability index shows that house prices in Malaysia are at a severely unaffordable level with the ratio that exceeds 5.1. The government has undertaken several measures via monetary policy and incentives to address this issue. The government's move is seen as having a positive impact if it is implemented effectively.

Keywords: Property Market, Real Estate, Residential Market, Housing Affordability.

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The Development of Business Cooperation in Thailand Regarding to the German Entrepreneur Opinion

Nattaya Nulong^{*}

Phuket Ratjabhat University, Thailand

Abstract

This is qualitative research. Framework this research in questions are opinion regards to Thailand in General such as what is main purpose to visit Thailand, The Opinion about overview of Thailand economic such as Economic stability of Thailand, Which types of Thailand economic sector according to Asean Economic Committee (AEC) categories are outstanding or need to improved. The samples used in the research is divided into two groups of the first group are 5 key informants sampling and the second group are sampling Snowball which Key informant have recommended number including 17 interviewee. The study area in Germany is The Regional of Economic region Rhine-Neckar Metropolitan Region in Baden-Württemberg ,as the first European Upstream Engineering Technology By the time of data collection and research is January 2556 to July 2556. The results were as follows: German entrepreneurs are focus on the development of business partnerships with established companies those have legally registered and the stability of the business. The Recommendations to the Thai entrepreneurs who expect to maintain or create business business cooperation with Germans entrepreneurs are well preparing about legally business registration according to Germany investment law and policies and make understanding that German entrepreneurs are interested in the informal business cooperation as Research and Development Cooperation (Technology innovation sharing) or Sourcing and Purchasing Cooperation rather than the officially business cooperation like Contractual Agreement Cooperation or Joint Venture Cooperation. The Recommendations to the relevant government departments should parallel work together to provide a better informative understanding of overall economic policies of Thailand in order to preparing the business cooperation development.

Keywords: German Entrepreneur, the Development of Business Cooperation, the Europe Union, the ASEAN Economic Community

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The Effect of Financial Performance on Social and Environmental Reporting Performance

Sevgi Aydin¹, Betül Akar²

^{1,2} Kadir Has University, Turkey

Abstract

The aim of this study is to analyze the relationship between companies' financial performance and their social and environmental reporting performance. In accordance with this aim, Borsa Istanbul 100 companies' annual reports for 2013 and web pages were analyzed through the method of content analysis. The results of the study point out to a positive and meaningful relationship between financial performance and social and environmental reporting performance.

Keywords: Social Reporting, Environmental Reporting

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Financial Statements' Analysis of the Furniture Manufacturing Sector in Turkey

Sevgi Aydın¹, Betül Akar²

^{1,2} Kadir Has University, Turkey

Abstract

The aim of this study is to determine the financial structure of Turkish furniture manufacturing sector and its place in the manufacturing sector. For this purpose, firstly the sector's general characteristics and its place in the manufacturing sector in Turkey are explained. Then, the furniture manufacturing sector's balance sheets and income statements for 2010-2014 period are analyzed using common size percentage and ratio analysis which are financial statement analysis methods.

Keywords: Financial Statement Analysis, Furniture Industry, Common Size Percentage, Ratio Analysis

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TRACK B: SOCIAL SCIENCES AND HUMANITIES



The Polygamy: A Comparative Study of Two Grounds, Such as Turkey and Algeria

Emine Asan*

University of Perpignan, France

Abstract

What is polygamy? By whom, why and how is it practised? In a comparative study of two grounds with a strong Moslem population, such as Turkey and Algeria, we will try to answer these questions that are both macro sociological and micro sociological. In Turkey, between an official ban and a tolerant tradition, the management of polygamy in the public space is made through strategies of circumventing the institutional laws to organize polygamy on the administrative and legal plans. When in Algeria, regarding the management of this organization, laws exist to limit polygamy but without really forbidding it. But it becomes then a perpetual game of circumventing the laws in a formal / informal relationship. So, in the current societies studied in this research work, the reasons of the practice of polygamy are not only of religious matter. It appears also there. It represents so many cultural, economic and social reasons there. Whether it is in Turkey or in Algeria, polygamy is not practised in the same way and for the same reasons (because they are multiple) but finally the nature of the reasons does not change: it is to satisfy an expression of the self in a holistic social environment. It would thus be a means to fit in the social standards while still being an individual will. But the conflicting nature of the practice of polygamy stimulates authority and power relationships through a process of territorialisation and of appropriation of the polygamous space, which transforms polygamy into a social destroyer where its impacts on children is no less.

Keyword: Polygamy, Circumventing The Laws, Official / Unofficial, Formal / Informal, Territorialization, Balance Of Forcing, Power, Conflicting, Koranic Interpretations, Couple, Family, Marriage, Conjuality / Matrimoniality, Social Standards, Social Pressure, Expression Of The Self.

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Time Management and Academic Challenge among Resilient Students

Dian-Fu Chang¹, Yi-Chun Lin^{2*}
^{1,2} Tamkang University, Taiwan

Abstract

With rapid expanded higher education, the issue of learning performance has caused public concern. Various significant characteristics of college students' learning have been found in previous studies, while the knowledge related to time management and academic challenge among resilient students in higher education is still limited. This study aims to determine the student's time management and academic challenge for resilient students in a specific higher education setting. Given this purpose, we selected 113 students fitted the criteria of resiliency from the 1,191 college students' data of engagement survey in 2015. In this study, time management refers to 8 different academic activities, while the academic challenge contents learning intention, course participation, quantity of reading, and cognitive engagement. This study employed correlation and multiple regression models to analyse how the different dimensions of learning activities will influence their learning experiences. The correlation analysis reveals that cognitive engagement has shown significant relationship with learning intention ($r=.474$, $p < .001$), course participation ($r=.269$, $p < .01$), and quantity of reading ($r= -.208$, $p < .05$) respectively. The result of regression model reveals cognitive engagement is the key factors which will prompt to enrich resilient students' leaning experiences. The findings fit the related cognitive engagement theory. The results of this study may enhance the knowledge of resilient students' engagement in higher education.

Keywords: Time Management, Academic Challenge, Cognitive Engagement, Learning Experiences, Resilient Students, Higher Education

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TRACK C: ENGINEERING & TECHNOLOGY STUDIES



The Impact of Digital Divide on the Access and Utilization of Information and Communication Technology in Nigeria

Abdulkadir Kaila Umar^{1*}, Baffa Alhaji Dodo²

^{1,2} Jigawa State College of Education, Gumel Jigawa State, Nigeria

Abstract

The paper was carried out to explore the impact of digital divide on access & utilization among the underground students of Jigawa State College of Education, Gumel. Related literature on Digital Divide were reviewed. Survey research was employed in data collection from the sample population. Questionnaire was administered using face to face method. The paper also discusses the ways of bridging these gaps. Conclusion and recommendation were drawn

Keywords: Digital Divide, Access, Utilization, ICT

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Comparative Performance Analysis of Flower Pollination Algorithm and Harmony Search based strategies: A Case Study of Applying Interaction Testing in the Real World

**Abdullah B. Nasser¹ AbdulRahman A. Alsewari^{2*}, Aminu
A. Mu'azu³, and Kamal Z. Zamli⁴**
Universiti Malaysia Pahang, Malaysia

Abstract

The main purpose of software testing is to detect software failures to ensure that a product functions work as expected. Therefore, there is need to test huge possible number of input combinations. T-way testing is a sampling approach to minimize input combinations. Recently, adapting optimization algorithm for T-way testing is very interested. As a consequence, many t-way optimization algorithm based strategies have been designed and implemented. In order to guide software tester to choose the best software testing strategy, there is a need to evaluate and benchmark the performance of each strategy against common case studies. In this paper, we present a comparison between two strategies, Harmony Search (HS) and Flower Pollination Algorithm (FPA) based strategies. Our experiments have performed on a real-world case study. Experiments results demonstrate that the performance is almost the same for both strategies and there is no one strategy can always be the best; however HS-based strategy performs better than FPA-based in many cases.

Keywords: Software Testing, T-way Test Suite Generation, Harmony Search HS, Flower Pollination Algorithm FPA, Flower Strategy.

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TRACK D: PHYSICAL LIFE AND APPLIED SCIENCES



Observations on Invertebrate Fauna Encountered in Some Agricultural Crops

**Tălmăciu Mihai¹, Ionela Mocanu^{2*}, Herea Monica³, Nela
Tălmăciu⁴**

Universitatea De Științe Agricole Și Medicină Veterinară „Ion Ionescu De
La Brad” Din Iași, Romania

Abstract

Observations on the structure of invertebrate fauna has been made in some plum plantations of Stanley and Rivers timpuriu varieties, located in Vasile Adamachi Farm and Pietrarie stationary from Iași, during the two years 2014 and 2015. The Barber traps were used, which consisted of incorporation in the soil of some pots with a volume of 500 ml which was placed a solution of formalin (40%) diluted with water to a concentration of 5%. The location of traps it has been made on two rows at a distance of 12 meters between rows and 6 meters between traps, 3 each pots in a row. The samples collecting was done in each of the two years of observation in the period May to September, at intervals of about 10-20 days. Analysing the collected material in 2014 from Vasile Adamachi stationary at Rivers timpuriu and Stanley varieties it found that after 12 harvesting in the 72 traps were totaled a number of 1146 samples and at Pietrarie stationary the total number of samples it was 655. During the period of observations in 2015 from Vasile Adamachi stationary, following of the 20th collection out of the 120 traps have totalled a number of 1915 samples and at Pietrarie stationary after 17 harvests of 102 traps total was 1007 samples. It was established the structure of species and were calculated the most important ecological indexes such as: Abundance, Constant, Dominant and Ecological significance index. In the research period it was collected in total from the two stationary at the two studied varieties, of the 246 traps a total of 4723 samples. The species with the highest number of samples were: Hymenoptera (wasps) 440 samples, Orthoptera (grasshoppers) 312 samples, Polydrosus sericeus 217 samples, Lepidoptera (larvae) 202 samples, Hymenoptera (ants) 178 samples, Orthoptera (crickets) 161 samples, and Pseudophonus rufipes 159 samples.

Keyword: Fauna Encountered, Agriculture Crop, Invertebrate

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TRACK E: HEALTH AND MEDICINE STUDIES



Energy Balance and its Relationship with Metabolic disease in Bangladeshi Middle-aged Women

Malik Syeda Umme Fahmida¹, Begum,

Musammat, Kulsuma², Ahmad Abu Toha Reza³

^{1,2,3} Shahjalal University of Science and Technology, Sylhet, Bangladesh

Abstract

Obesity has been rising as a major public health challenge. The obesity epidemic is more in middle aged women in urban areas than those of rural areas. Metabolic disease has characteristic features like higher prevalence of abdominal obesity in South Asians than white Caucasians. Because of the occurrence of metabolic syndrome at a lower range of body mass index (BMI) and it is proposed that cut offs for both measures of obesity should be changed to reach a new setting point for overweight BMI 23-24.9 kg/m² and ≥ 25 kg/m² for obesity for South Asians. The strength and direction of energy balance (energy flux and body weight) and the development of type 2 diabetes (T2D) has not been adequately investigated. In this study nearly 2000 middle-aged Bangladeshi women were taken as a study population who had not suffered from diabetes. These women had to face interview at the initial phase and finally repeated investigation was done regularly to collect information on their metabolic risk factors. Over a period of 3.6 years follow-up, 850 new cases of T2D were documented. During follow-up 850 new cases of T2D were documented. Energy intake (EI) was associated with increased risk, and energy expenditure with physical activity (PA) was associated with change in weight and decreased risk of T2D. In our population, we found women tend to develop T2D who are less active with higher EI than those of more active with lower EI. We also observed the association was more evident among overweight and obese women (BMI ≥ 25 kg/m²). These follow up study suggest that energy balance plays a dominant role in the development of weight regulation and this effect may be modified by BMI. Body weight regulation is a complex collection and genetic variables that control energy intake and expenditure. Further study of this concept may help to achieve a healthy weight.

Keywords: Body mass Index, Physical activity, Energy Intake

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The Study of Chinese Herbal Formula Cordyceps by a Multidisciplinary Fingerprinting Platform

Ian C. Hsu

National Tsing Hua University, Taiwan

Abstract

Ancient Chinese herbal formulas with documented therapeutic effects hold great promise for discovering novel therapeutic targets for currently intractable diseases. However, the multicomponent nature as well as unregulated quality has greatly complicated the interpretation of science-based study on Chinese herbal formulas. Here, we aim to unravel key conceptual perceptions stated in Chinese pharmacopoeias about the multicomponent herbal formula, Cordyceps, with an integrated fingerprinting platform. In addition, molecular genetic, chemical and microarray fingerprinting platforms are integrated to assure the authenticity as well as assess the chemical profiles and potential pharmacological targets of Cordyceps. Result of microarray study further revealed that the immunomodulatory activities of Cordyceps maybe mediated by the regulation of CD69 gene. This integrated fingerprinting platform could be implemented to the standardization process as well as the future in vivo study on traditional Chinese herbal formulas.

Keywords: Chinese Herbal Formulas, Cordyceps, Microarray, Chemical Fingerprinting Platform

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FUTURE EVENTS

3rd INTERNATIONAL CONFERENCE ON

**“Multidisciplinary Innovation for Sustainability and Growth”
(MISG – 2016)**



Date: June 2-3, 2016

Venue: The Federal Kuala Lumpur Malaysia

Email: misg@globalilluminators.org

Abstract Submission Date: May 15, 2016

Full Paper Submission Date: May 25, 2016

Selected conference papers will be published in special /regular issue of ISI/Scopus indexed journals associated with this conference.

Conference Main Tracks

- Business, Management and Economic Studies
- Health and Medicine Studies
- Engineering & Technology Studies
- Social Science & Humanities
- Physical Life and Applied Sciences
- Regional and Religious Studies
- Multidisciplinary and Interdisciplinary Studies

For more details visit www.globalilluminators.org

2nd INTERNATIONAL CONFERENCE ON
“Multidisciplinary Innovation in Academic Research”
(MIAR-2016)



Date: July 29-30, 2016

Venue: Hotel Kazakhstan, Almaty

Email: miar@globalilluminators.org

Abstract Submission Date: May 10, 2016

Full Paper Submission Date: May 20, 2016

Selected conference papers will be published in special /regular issue of ISI/Scopus indexed journals associated with this conference.

Conference Main Tracks

- Business, Management and Economic Studies
- Health and Medicine Studies
- Engineering & Technology Studies
- Social Science & Humanities
- Physical Life and Applied Sciences
- Regional and Religious Studies
- Multidisciplinary and Interdisciplinary Studies

For more details visit www.globalilluminators.org

2nd INTERNATIONAL CONFERENCE ON

**“Multidisciplinary Academic Research & Global Innovation”
(MARGI- 2016)**



Date: August 25-26, 2016

Venue: Holiday Inn Central Plaza Beijing
No.1 Caiyuanjie, Xicheng District, Beijing 100053, P.R.
China

Email: margi@globalilluminators.org

Abstract Submission Date: June 10, 2016

Full Paper Submission Date: June 20, 2016

**Selected conference papers will be published in special
/regular issue of ISI/Scopus indexed journals associated
with this conference.**

Conference Main Tracks

- Business, Management and Economic Studies
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- Social Science & Humanities
- Physical Life and Applied Sciences
- Regional and Religious Studies
- Multidisciplinary and Interdisciplinary Studies

For more details visit www.globalilluminators.org

3rd INTERNATIONAL CONFERENCE ON

**“Emerging Trends in Academic Research”
(ETAR – 2016)**



Date: September 26-27, 2016

Venue: Golden Tulip Galaxy Banjarmasin, Indonesia

Email: etar@globalilluminators.org

Abstract Submission Date: August 10, 2016

Full Paper Submission Date: August 20, 2016

Selected conference papers will be published in special /regular issue of ISI/Scopus indexed journals associated with this conference.

Conference Main Tracks

- Business, Management and Economic Studies
- Health and Medicine Studies
- Engineering & Technology Studies
- Social Science & Humanities
- Physical Life and Applied Sciences
- Regional and Religious Studies
- Multidisciplinary and Interdisciplinary Studies

For more details visit www.globalilluminators.org

3rd INTERNATIONAL CONFERENCE ON

**“Multidisciplinary Trends in Academic Research”
(MTAR- 2016)**



Date: September 29-30, 2016

Venue: Holiday Inn Bangkok Silom, Bangkok Thailand

Email: mtar@globalilluminators.org

Abstract Submission Date: June 30, 2016

Full Paper Submission Date: September 10, 2016

Selected conference papers will be published in special /regular issue of ISI/Scopus indexed journals associated with this conference.

Conference Main Tracks

- Business, Management and Economic Studies
- Health and Medicine Studies
- Engineering & Technology Studies
- Social Science & Humanities
- Physical Life and Applied Sciences
- Regional and Religious Studies
- Multidisciplinary and Interdisciplinary Studies

For more details visit www.globalilluminators.org

2nd INTERNATIONAL CONFERENCE ON

**“Regional Challenges to Multidisciplinary Innovation”
(RCMI- 2016)**



Date: October 05-06, 2016

Venue: Grand Flora Dubai, UAE

Email: rcmi@globalilluminators.org

Abstract Submission Date: June 30, 2016

Full Paper Submission Date: September 15, 2016

Selected conference papers will be published in special /regular issue of ISI/Scopus indexed journals associated with this conference.

Conference Main Tracks

- Business, Management and Economic Studies
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- Engineering & Technology Studies
- Social Science & Humanities
- Physical Life and Applied Sciences
- Regional and Religious Studies
- Multidisciplinary and Interdisciplinary Studies

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3rd INTERNATIONAL CONFERENCE ON

**“Innovative Trends in Multidisciplinary Academic Research”
(ITMAR-2016)**



Date: October 20-21, 2016

Venue: Istanbul Gonen Hotel, Istanbul, Turkey

Email: itmar@globalilluminators.org

Abstract Submission Date: July 30, 2016

Full Paper Submission Date: September 30, 2016

Selected conference papers will be published in special /regular issue of ISI/Scopus indexed journals associated with this conference.

Conference Main Tracks

- Business, Management and Economic Studies
- Health and Medicine Studies
- Engineering & Technology Studies
- Social Science & Humanities
- Physical Life and Applied Sciences
- Regional and Religious Studies
- Multidisciplinary and Interdisciplinary Studies
- For more details visit www.globalilluminators.org

1st INTERNATIONAL CONFERENCE ON

**“Interdisciplinary Academic Research and Innovation 2016”
(IARI – 2016)**



Date: November 25-26, 2016

Venue: Indonesia Computer University

Email: iari@globalilluminators.org

Abstract Submission Date: September 30, 2016

Full Paper Submission Date: October 30, 2016

Selected conference papers will be published in special /regular issue of ISI/Scopus indexed journals associated with this conference.

Conference Main Tracks

- Business, Management and Economic Studies
- Health and Medicine Studies
- Engineering & Technology Studies
- Social Science & Humanities
- Physical Life and Applied Sciences
- Regional and Religious Studies
- Multidisciplinary and Interdisciplinary Studies

For more details visit www.globalilluminators.org

4th INTERNATIONAL CONFERENCE ON

**“Innovation Challenges in Multidisciplinary Research &
Practice”**

(ICMRP -2016)



Date: December 15-16, 2016

Venue: Hotel Grand Pacific Singapore

Email: ICMRP@globalilluminators.org

Abstract Submission Date: October 15, 2016

Full Paper Submission Date: November 30, 2016

**Selected conference papers will be published in special
/regular issue of ISI/Scopus indexed journals associated
with this conference.**

Conference Main Tracks

- Business, Management and Economic Studies
- Health and Medicine Studies
- Engineering & Technology Studies
- Social Science & Humanities
- Physical Life and Applied Sciences
- Regional and Religious Studies
- Multidisciplinary and Interdisciplinary Studies

For more details visit www.globalilluminators.org

3rd INTERNATIONAL CONFERENCE ON
“Global Issues in Multidisciplinary Academic Research”
(GIMAR -2017)



Date: February 01-02, 2017

Venue: Hotel Sunroute Plaza Shinjuku, Tokyo, Japan

Email: gimar@globalilluminators.org

Abstract Submission Date: August 20, 2016

Full Paper Submission Date: September 30, 2016

Selected conference papers will be published in special /regular issue of ISI/Scopus indexed journals associated with this conference.

Conference Main Tracks

- Business, Management and Economic Studies
- Health and Medicine Studies
- Engineering & Technology Studies
- Social Science & Humanities
- Physical Life and Applied Sciences
- Regional and Religious Studies
- Multidisciplinary and Interdisciplinary Studies

For more details visit www.globalilluminators.org

3rd INTERNATIONAL CONFERENCE ON

**“Multidisciplinary Innovation in Business Engineering
Science & Technology”
(MI-BEST -2017)**



Date: February 23-24, 2017

Venue: Century Park Hotel, Manila, Philippines

Email: mibest@globalilluminators.org

Abstract Submission Date: August 20, 2016

Full Paper Submission Date: September 30, 2016

Selected conference papers will be published in special /regular issue of ISI/Scopus indexed journals associated with this conference.

Conference Main Tracks

- Business, Management and Economic Studies
- Health and Medicine Studies
- Engineering & Technology Studies
- Social Science & Humanities
- Physical Life and Applied Sciences
- Regional and Religious Studies
- Multidisciplinary and Interdisciplinary Studies

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(TMBER -2017)



Date: March 25-26, 2017

Venue: Novetal Hotel Sydney central, Sydney Australia

Email: tmbler@globalilluminators.org

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