



# ITMAR 2016 Conference Proceeding Book of Abstracts

3<sup>rd</sup> Internationl Conference on "Innovation Trends In Multidisciplinary Academic Research"

Venue: Istanbul Gonen Hotel, Istanbul, Turkey

**Editor:** 

Dr. Ahmad Saddam Ph.D.

Country Director (Global Illuminators Iraq)

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#### **Conference Chair Message**

#### Farooq Ahmed Jam (Ph.D.)

International Conference on "Innovation Trends in Multidisciplinary Academic Research" (ITMAR-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 interacting with other renowned scholars for possible future collaborations.

I am really thankful to our honorable 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 ITMAR Papers**

For this year, ITMAR has two types of papers: *Empirical Studies* and *Insight*. Research papers meet the needs of researchers and are reviewed on the basis of highest academic standards. The objective of the academic paper is to contribute to the scientific body of knowledge. On the contrary, Insight papers meet the needs of policy makers and professionals and are reviewed on the basis of high practical standards. The objective of the Insight is to identify the real world problems and how they can be solved with the help of information systems.

#### **Reviewing Criteria**

In ITMAR, all papers are judged on the same criteria (relevance, significance, originality, validity and clarity). However some criteria differ between the Research papers and Insight papers.

**Relevance:** Relevance 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
50	35	10	5	70%

#### **Copyright Agreement**

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#### Acknowledgment

A huge number of people helped in conducting the conference. First of all thanks to all the members of the Conference and Program Committee and representatives of the ITMAR board and their helpers. We also want to thank all the Track Chairs, and reviewers, as well as all the members 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 ITMAR tradition.

Farooq Ahmed Jam (Ph.D.), Tariq Iqbal Khan (Ph.D.) Program Chair & Co-Chair

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#### Zhou Rui-Hua

School of Public Health, North China University Of Science And Technology

#### KEYNOTE SPEAKER

#### Assoc. Prof. Dr. Sanaa. N. Maswadeh



Dr. Sanaa. N. Maswadeh has earned the degree of Ph.D. in Accounting from University of Amman and has been serving as an Associate Professor at Jadara Private University since 1992. She has been teaching different accounting courses such as Accounting Information system, Accounting application using –

Microsoft excel, Principle Of Accounting, Advanced Accounting, Managerial Accounting, Cost Accounting, Financial Analysis, Corporate Accounting and Tax Accounting. Supervising and mentoring many students of master degree in their theses which are related to the fields of accounting. Her publications also include Books titled Principle of Accounting, Corporate Accounting & advanced accounting and reviewer in different journals.

Her major areas of research interests include: Measuring Performance, Principles of Islamic Finance (Shariah), Strategies and Profitability, Conceptual Framework of Financial Accounting, International accounting standards, E-Commerce Business, Accounting information system design, and different subjects related to financial and managerial accounting.

#### **ITMAR 2016 Tracks' Chairs**

Business, Management Economics Studies & Social Sciences
Farooq Ahmed Jam

Health Medicine Studies, Physical Life & Applied Sciences

Yusoff, Sofia Hayati & Farooq Ahmed Jam

Engineering & Technology Studies Sanaa. N. Maswadeh & Merry Maulin

#### ITMAR 2016 Panels

"Role of Multidisciplinary and Muti-sectoral Cooperation in Promotion of Innovation in Academic Research"

Moderator: Dr. Farooq Ahmed Jam Dr. Sanaa, N. Maswadeh

This Panel discussion will explore relationship between creativity, innovation development with multidisciplinary and multi-sectoral settings in academic research. Moreover, the development of innovative benefits for academic researchers from the generation of a high number of creative ideas will be discussed. Panel members will discover the idea generation process that can be particularly fruitful within collaborative multidisciplinary environments, where research bodies like firms, Science and Technology institutions coexist and cooperate. The members' approach will be focusing on existing literature to investigate the creativity and idea generation process within the frame of multi-sectoral and multidisciplinary cooperation initiatives, involving firms and Science and Technology related institutions.

#### **Best Paper Nominee List**

# Religions and the Law of Armed Conflict: A Question of Compatibility

*Tahsin Khan*Bangor University, Wales, United Kingdom

# The Relative Importance of Quality Costs in Jordanian Pharmaceutical Manufacturing Sectors and Their Deficiencies

Sanaa N. Maswadeh Jadara Private University, Jordan

### Scale-Invariant Regularities of Nanostructured Semiconductors

Zhanabaev Z. Zh, Grevtseva T. Yu, Kozhagulov Yeldos Tokkozhauly \*, Assilbayeva R. B. K. I
Al-Farabi Kazakh National University, Khazakhstan
National Nanotechnology Open Laboratory
Scientific-Research Institute of Experimental and theoretical physics, Almaty, Kazakhstan
Satpayev Kazakh National Research Technical University, Almaty, Kazakhstan

#### ITMAR 2016 Best Paper Award Winner

The Relative Importance of Quality Costs in Jordanian Pharmaceutical Manufacturing Sectors and Their Deficiencies

Sanaa N. Maswadeh Jadara Private University, Jordan

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#### **CONFERENCE PROGRAM**

DAY 01 Thursday (October 20, 2016)

#### **Welcome Reception & Registration**

#### 8:15 am - 9:00 am <u>Opening Ceremony (09:00am - 10:30 am)</u>

Venue: Room 1

09:00 am – 9:15 am	Welcome Remarks – Mr. Wilson Onch	Manager operations
09:15 am – 9:25 am	Opening Speech – Dr. Farooq Ahmed Jam	Conference Chair ITMAR-2016 Executive Director Global Illuminators
09:25 am – 9:45am	Keynote Speech - Assoc. Prof. Dr. Sanaa. N. Maswadeh	Associated Professor at Jadara Private University, Jordan
09:45 am - 10:30 am	Group Photo & Award Ceremony	

Grand Networking Session and Tea Break (10:30 am – 11:00 am)

<sup>3&</sup>lt;sup>rd</sup> International Conference on Innovation Trends In Multidisciplinary Academic Research (ITMAR-2016)

#### DAY 01 Thursday (October 20, 2016) <u>Session 1 (11:00 am – 1:00 pm)</u> Venue: Room 1

#### Session Chairs: Farooq Ahmed Jam

Track A: Business, Management, Economics & Social Sciences

ITMAR-16-101	Utilities, Prices, and Households	Arthur Dambischi
ITMAR-16-102	Language use in Online News on Terrorist Attacks	Yusoff, Sofia Hayati
ITMAR-16-112	Religions and the Law of Armed Conflict: A Question of Compatibility	Tahsin Khan
ITMAR-16-114	The Degree of using the Internet for Academic Purposes from the Perspectives of The Students at Jadara University	Bassam M. Qablan
ITMAR-16-118	The Strategic Role of Women Entrepreneur in Increasing Economic Productivity by Using Cash Waqf as A Model of Islamic Social Entrepreneurship	Merry Maulin
ITMAR-16-135	The Relative Importance of Quality Costs in Jordanian Pharmaceutical Manufacturing Sectors and their Deficiencies.	Sanaa N. Maswadeh
ITMAR-16-136	The Role of Interreligious and Intercultural Dialogue on the Global Peace, Justice And Ethics	Sheikh Taher Amini Goestani

Lunch Break (1:00 pm - 2:00 pm)

<sup>3&</sup>lt;sup>rd</sup> International Conference on Innovation Trends In Multidisciplinary Academic Research (ITMAR-2016)

### DAY 01 Thursday (October 20, 2016) Panel Discussion Session (2:00 am – 3:00 pm)

#### Panel Discussion on

### "Role of Multidisciplinary and Muti-sectoral Cooperation in Promotion of Innovation in Academic Research"

Panellists Dr. Farooq Ahmed Jam	
	Assoc. Prof. Sanaa . N. Maswadeh
Participants	All Participants

This Panel discussion will explore the relationship between creativity, innovation development with multidisciplinary and multisectoral settings in academic research. Moreover, the development of innovative benefits for academic researchers from the generation of a high number of creative ideas will be discussed. Panel members will discover the idea generation process that can be particularly fruitful within collaborative multidisciplinary environments, where research bodies like firms, Science and Technology institutions coexist and cooperate. The members' approach will be focusing on existing literature to investigate the creativity and idea generation process within the frame of multi-sectoral and multidisciplinary cooperation initiatives, involving firms and Science and Technology related institutions.

# DAY 01 Thursday (October 20, 2016) <u>Session 2 (3:00 am - 4:00 pm)</u> Venue: Room 1

#### Session Chairs: Sanaa . N. Maswadeh & Merry Maulin

Track D: Engineering & Technology Studies

110011 2 V 21151110011115 0V 100111101010			
ITMAR-16-123	Capacity of Actinobacteria Isolated from Saline Soils of Melghir Chott to use	Bensouici Karima	
	both Insecticides (Karate and Decis) as A Sole Source of Carbon and Energy.		
ITMAR-16-143	Low RPM Disc Elecricity Generator	Alisher Koshumbayev	
ITMAR-16-144	Straight-Flow Hudro Turbine for Small Rivers	Alisher Koshumbayev	
ITMAR-16-145	The Vortex Wind Power Plant with a Flow Concentrator	Alisher Koshumbayev	

Tea Break (4:00 pm - 4:15 pm)

#### DAY 01 Thursday (October 20, 2016)

<u>Session 3 (4:15 pm – 5:15 pm)</u> Venue: Room 1

#### Session Chairs: Yusoff, Sofia Hayati & Farooq Ahmed Jam

Track: Health, Medicine, Physical and Applied Sciences

ITMAR-16-107	Factors Affecting Health Promoting Behavior Intention and Health Promoting Behavior of Online Health Information Consumers' Health Information Use	Hanna CHoi
ITMAR-16-149	Scale-Invariant Regularities of Nanostructured Semiconductors	Kozhagulov Yeldos Tokkozhauly

Closing Ceremony: 5:15 to 5:45pm

# DAY 02 Friday, (October 20, 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 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.



**Global Illuminators** 

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# TRACK A: BUSINESS MANAGEMENT & ECONOMIC STUDIES



#### **Global Illuminators**

Abstract Proceeding Book ITMAR- October 20-21, 2016 Istanbul, Turkey ISBN: 978-969-9948-59-6

#### Utilities, Prices, and Households

#### **Arthur Dambischi**

<sup>1</sup> University Politehnica of Bucharest, Romania

#### Abstract

This paper focuses on the problems related to the public utilities with reference to the background of managing deficits. There is also a study to provide the ways of low transaction costs to get efficiency on any level of production capacity with no consequence on the short or long-run, and next to the specific of delivery for utilities.

*Keywords:* Homogeneity of Services, Market Preferences, Trade Liberalization, Infrastructure, Preferential Treatment

Email: dufrouxe@aol.com

<sup>\*</sup>All correspondence related to this article should be directed to Michelle Dufroux, University Politehnica of Bucharest,Romania



#### Global Illuminators

Abstract Proceeding Book ITMAR- October 20-21, 2016 Istanbul, Turkey

ISBN: 978-969-9948-59-6

#### The Strategic Role of Women Entrepreneur in Increasing Economic Productivity by Using Cash Waqf as A Model of Islamic Social Entrepreneurship

#### Merry Maulin<sup>1\*</sup>, Hendrati Dwi Mulyaningsih<sup>2</sup>, Aulia Ratu Cempaka<sup>3</sup>

<sup>1,2,3</sup> Telkom University, Indonesia, Indonesia

#### Abstract

With a diverse sample of (N = 220) of students from various universities in Pakistan and investors of stock market, the author tested the main effect of personality traits on attitude towards risk. They also examined the moderating effect of financial knowledge between personality traits and risk aversion. The findings of study provide support for only two direct proposed hypotheses. Our findings show that extroversion personality trait has positive correlation with attitude towards risk and conscientiousness has negative correlation with attitude towards risk. But moderation role of financial knowledge between big five personality traits and attitude towards risk was not supported in our study.

#### Keywords: Personality Traits, Attitude, Knowledge, Risk

\*All correspondence related to this article should be directed to Irfan Ahmed, Riphah International University Islamabad, Pakistan Email: irfanriphahian@gmail.com



Abstract Proceeding Book ITMAR- October 20-21, 2016 Istanbul, Turkey

ISBN: 978-969-9948-59-6

# The Relative Importance of Quality Costs in Jordanian Pharmaceutical Manufacturing Sectors and Their **Deficiencies**

#### Sanaa N. Maswadeh\*

Jadara Private University, Jordan

#### Abstract

The aims of study are to determine the relative importance of each of the elements of quality costs, classified to prevention costs, appraisal costs, internal failure costs, and external failure costs, and deficiencies related to these elements, in Jordanian pharmaceutical manufacturing sector. The sample was selected using simple random sampling with a sample size of 9 Jordanian pharmaceutical companies from population consisting of 24 companies at the end of 2015. A total of 50 questionnaires were distributed to quality and production managers in sample study, out of 50 questionnaires, only 40 were fit for analysis, one sample t-test was used to test the hypotheses of the study. The most important results of study were: awareness among the responses of study members about the importance of the elements of four dimensions of quality costs. The most deficiencies in the prevention cost elements related to failure of existing quality reference manual to match production specifications on continuous basis. And the most deficiencies in the appraisal cost elements involved in developing agreed standards for classifying products into good and defective or damaged according to the level of their quality. And showed the deficiencies in internal failure cost elements involved in estimating lost time costs on the rehabilitation products. And deficiencies in the external failure cost elements related to estimating costs of losing customers and decrease in market share because of customers' dissatisfaction of product quality. Finally, the study recommended that Jordanian pharmaceutical manufacturing management should increase their attention to quality system planning costs on continuous and permanent basis.

Keywords: Quality Costs, Prevention Costs, Appraisal Costs, Internal Failure Costs, External Failure Costs

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<sup>3&</sup>lt;sup>rd</sup> International Conference on Innovation Trends In Multidisciplinary Academic Research (ITMAR-2016)



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# TRACK B: SOCIAL SCIENCES & HUMANITIES



Abstract Proceeding Book ITMAR- October 20-21, 2016 Istanbul, Turkey

ISBN: 978-969-9948-59-6

# Language Use in Online News on Terrorist Attacks

Yusoff, Sofia Hayati<sup>1</sup>, Hassan, Fauziah<sup>2</sup>, Zamin, Ainul Azmin<sup>3</sup> 1,2 Universiti Sains Islam Malaysia <sup>3</sup> International Islamic University, Malaysia

#### Abstract

Online news has given tremendous impact to the mass audience especially in getting connected with and being informed on the latest issues. However, each online news portal could have its own standards in providing in-depth coverage of the events such as house-style of reporting, length of the story, selection of photos, language use and others. Therefore, this study intends to analyze how the main online news portals in Europe (http://www.euronews.com/) and Africa (http://allafrica.com/) report issue on Paris and Mali terrorist attacks that have occurred recently and sparked the worldwide attention. The objectives of this study are threefold; 1) To compare the coverage of reporting the Paris and Mali terrorist attacks by selected online news portals, 2) To identify the news sources used in reporting the attacks, 3) To investigate the choice of language style used by selected online news portals when reporting the attacks. This research will employ a qualitative content analysis approach on two different case studies. The researchers have selected two different time periods to collect the news samples. A collection of news articles will be collected and analyzed from 13 November to 20 November 2015 in relation to the Paris attack. Whereas for the Mali attack, a collection of online news from 20 November to 27 November 2015 will be documented and studied. The data collected will be analyzed using Atlas.ti.

Keywords: Online News Portals, Paris Attack, Mali Attack, News Reporting, Terrorist Attacks

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ISBN: 978-969-9948-59-6

# Religions and the Law of Armed Conflict: A Question of Compatibility

#### Tahsin Khan<sup>\*</sup>

Bangor University, Wales, United Kingdom

#### Abstract

There is a common propensity among the general people as well as the secular or modern law of armed conflict lawyers to claim that religions had no major role in the evolution of the contemporary law of armed conflict. This paper has found that the law of armed conflict as it stands today, is not the product of any one particular culture. In fact, it is embodied in many cultures or religions - Islam, Christianity, Judaism and Hinduism. Moreover, religions may at times have a more prominent impact than laws on the behaviour of the parties involved in armed conflict. It is particularly true considering that religions are likely to work as an added force beyond the legal system. Also with the ever increasing quantity of the non-state entities in the contemporary world and their growing inclination to consider themselves beyond the scope of existing law, religions appear to be the likeliest to add some persuasive value to the existent framework of the law of armed conflict.

Keywords: Geneva Conventions of 1949, Additional Protocols of 1977, Customary Law of Armed Conflicts, Religions

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ISBN: 978-969-9948-59-6

# The Degree of Using the Internet for Academic Purposes from the Perspectives of the Students at Jadara University

## Bassam M. Oablan\* Jadara University, Jordan

#### Abstract

The study aimed at identifying the degree of using the internet for Academic purposes from the perspectives of the students at Jadara University. The population of the study consists of (4000) students. The sample of the study consists of (200) students chosen randomly. The researcher developed a questionnaire which included 30 items. The researcher used the descriptive method to test the hypotheses. The results have indicated that the degree of using the internet for academic purposes was high in the following domains: research, instructional and learning purposes. The findings of the study have indicated that there are significant statistical differences between the perspectives of the respondents due to major in favor of the scientific major students. The findings have not revealed any significant statistical differences between the perspectives of the students attributed to gender. The study has been concluded with some recommendations.

#### **Keywords:** Internet, Research, Instructional, Learning Purposes

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# The Role of Interreligious and Intercultural Dialogue on the Global Peace, Justice and Ethics

Sheikh Taher Amini Goestani<sup>1</sup>, Aboozar Andalib Armaki<sup>2</sup> <sup>1,2</sup> International Institute for Peace and Religions, Iran

#### Abstract

No peace among the nations without peace among the religions. No peace among the religions without dialogue between the religions. No dialogue between the religions without investigation of the foundations of the religions. And there will be no life on the earth without Global Ethics In a world which is more and more pluralist, we need a solution for ethical foundation which can be shared by everybody. We have many cities, especially big cities, where there are considerable minorities of other religions. So very often we have in the school classes children of different religions, and in order to resolve this problem, you cannot impose one religion on all the others. On the other hand, it is important to know that Islam and Christianity, in particular, are two of the most numerous and the most influential of the world religions today. They share many points in common as religions. Most important of all they trace their lineage to one common ancestor, Abraham, who is the Divine Patriarch of the religions, called after him as the Abrahamic religions. Knowing this, for any religious person among them, it is a must to endeavor for approximation of them more and more, due to the world's today's situation filled with challenge and tension. United against violence in the name of religion.

Kevwords: Islam, Shi'ism, Interfaith, Intercultural, global ethichs, peace, Justice

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# TRACK C: HEALTH, MEDICINE PHYSICAL AND APPLIED SCIENCES



Abstract Proceeding Book ITMAR- October 20-21, 2016 Istanbul, Turkey

ISBN: 978-969-9948-59-6

# Factors Affecting Health Promoting Behavior Intention and Health Promoting Behavior of Online Health Information Consumers' Health Information Use

# Hanna Choi<sup>1</sup>, Jeongeun Kim<sup>2</sup>

1,2 National University, Seoul, South Korea

#### Abstract

The purpose of this study was investigating factors having influence upon online health information consumers' health information use to predict health promoting behavior intention and behavior. The path diagram construction and factor were longitudinally tested based upon Pender's health promoting behavior model and Fisher and Fisher's information-motivation-behavioral skills model. Data were collected in June (1st), 2015 off-line and September (2nd), 2015 on-line through questionnaire survey with persons who joined 1st time survey. A total of 360 online health information consumers, for 18 years old above adults, were extracted by top five groups according to distribution of 6th Korean Standard Classification of Occupations (2014) living in Seoul, Daejeon, Daegu, Busan, and Gwangiu. The results from this study are as follows: In the hypothetical model, 13 paths with 7 structural and 7 measurement models were established, out of 13 paths, 9 paths were statistically significant. Model fit indices for the model fitted to the recommendable level ( $\chi$ 2= 7.92, GFI= .99, AGFI= .94, Normed  $\chi$ 2= 2.64, RMSEA= .068, NFI= .99, CFI= .99, IFI= .99, PGFI= .11, PNFI= .14, PCFI= .14). Predictors of perceived benefit were affected by perceived ease of use and usefulness of OHI. Health promoting behavior intention was affected by perceived benefit, perceived self-efficacy, and prior health related behavior. Health promoting behavior was affected by health promoting behavior intention, prior health related behavior. In conclusion, the results of this study suggest that to improve health promoting behavior would be useful for online health information consumer to consider all factors together, motivation (perceived benefit), behavior skills (perceived efficacy), and information (perceived ease of use and usefulness of OHI).

Keywords: Consumer, Online Health Information, Health Promoting Behavior Intention, Health Promoting Behavior

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<sup>3&</sup>lt;sup>rd</sup> International Conference on Innovation Trends In Multidisciplinary Academic Research (ITMAR-2016)



Abstract Proceeding Book ITMAR- October 20-21, 2016 Istanbul, Turkey

ISBN: 978-969-9948-59-6

# Scale-Invariant Regularities of Nanostructured Semiconductors

# Zhanabaev Z.Zh<sup>1</sup>, Grevtseva T.Yu<sup>2</sup>, Assilbaveva R.B. K.I<sup>3</sup>, Kozhagulov Y.T4

<sup>1</sup>Al-Farabi Kazakh National University <sup>2</sup> National Nanotechnology Open Laboratory, Almaty <sup>3</sup> Satpayev Kazakh National Research Technical University, Almaty, Kazakhstan <sup>4</sup> Scientific-Research Institute of Experimental and theoretical physics, Almaty, Kazakhstan

#### Abstract

We suggest a new system of maps with fractional exponents for the description of scale-invariant distribution of current carriers and impurities in nanostructured semiconductor films. We have described morphology of semiconductors containing quantum dots, quantum nanowires and quantum wells. Using our theory we can take into account influence of phonons on distribution of fractal nanostructures. We have defined values of scaling factor corresponding to a quantum-sized formation of certain type. Results of our theory have been confirmed by numerous experimental data.

Keywords: Nanostructure, Semiconductor, Scale-invariance, Fractal, Morphology

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# TRACK D: ENGINEERING & TECHNOLOGY SCIENCES



Abstract Proceeding Book ITMAR- October 20-21, 2016 Istanbul, Turkey

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Capacity of Actinobacteria Isolated from Saline Soils of Melghir Chott to use Both Insecticides (Karate and Decis) as a Sole Source of Carbon and Energy

## Bensouici Karima<sup>1</sup>, Kitouni Mahmoud<sup>2</sup>, Boudemagh Allaoueddine<sup>3</sup>

1,3 Université des Frères Mentouri-Constantine, Algérie <sup>2</sup> Université Abbes Laghrour- Khenchela, Algérie

#### Abstract

Karate and Decis are broad-spectrum insecticides belonging to the family of pyrethroids, widely used against several harmful insects. They are considered as dangerous for the environment and highly toxic for aquatic organisms. These phytosanitary molecules are used in many cultures for years in Algeria. The urgency of the use of different biological techniques is necessary for depollution, to compensate the devastating effects of these insecticides. Actinobacteria are a group of widespread ubiquitous bacteria in nature. These bacteria have very large capacities of degradation because of their very important metabolic potential. The exploration of extreme ecosystems such as chotts and saline soils which have not been studied sufficiently is a promising approach. Chott Melghir is located at -40 m below sea level. It is therefore, the lowest point of the geography of Algeria. The bacterial biodiversity of this ecosystem little studied deserves a particular attention. The aim of this work is the isolation and preliminary identification of actinobacteria from Chott Melghir and the study of their growth capabilities on both pesticides. 15 actinomycetes were isolated on three selective isolation media. The studies of macro and micromorphological aspects of the isolates have confirmed that our bacteria belong to actinobacteria. These bacteria can live at temperatures ranging from (6°C to 60°C) and salt concentrations (0 to 25%). The two insecticides degradation tests showed that several actinobacteria can grow on both pesticides as a sole source of carbon and energy. This study can be used as a starting point for several other researches including bioremediation and depollution of different ecosystems.

#### Keywords: Actinobacteria, Halophiles, soil, Chott Melghir

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<sup>3</sup>rd International Conference on Innovation Trends In Multidisciplinary Academic Research (ITMAR-2016)



Abstract Proceeding Book ITMAR- October 20-21, 2016 Istanbul, Turkey

ISBN: 978-969-9948-59-6

# Low RPM Disc Electicity Generator

## M. B. Koshumbayev<sup>1</sup>, A. M. Koshumbayev<sup>2</sup>, P. A. Kvasov<sup>3</sup>, A. A. Yerzhan<sup>4</sup>

1,2,3,4 Kazakh Research Institute of Power Engineering named Chokin, Kazakhstan

#### Abstract

In JSC "Kazakh research Institute of Energy named after academician Sh. Ch. Chokin" was designed new low RPM disk generator, which issued the application for the invention. The device comprises of a rotor-flywheel, at the outer edge of which are magnets with alternating polarity, the rotor is rigidly fixed on the axis, rotating on two bearings. The number of magnets exceeds the number of coils on one side of the stator. Increase in the capacity of the generator is achieved by increasing rotor diameter, number of magnets and coils of coils and the thickness of the rod core. In addition, the gap between the magnets and coils is governed by the rotation of the coil core in the threaded hole inside the casing. The technical result - improving the reliability of the generator by eliminating sticking of the magnetic circuit with the magnets and additional flywheel is achieved in that the rotor is executed in the form of a flywheel with a large diameter and concentration of weight around the ring due to the location on the edge of the rotor magnets and the stator coils are arranged on two sides of the rotor to eliminate sticking. Another technical result - reducing the weight of the rotor through the use of a ring of non-conductive material (e.g., aluminum), which contains magnets, and the ring is mounted with the axis through the rods. In accordance with the inventive design of the generator rotor magnets and the stator winding are located at the same radius, but on different parallel planes relative to the rotor-flywheel. This arrangement of the parts of the electric generator made it possible to fit the magnets of the rotor between the windings of the stator, allowing to provide them easy access when adjusting and replacing the coils when they are short.

#### **Keywords:** Low RPM Disc, Electricity, Geneartor

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Abstract Proceeding Book ITMAR- October 20-21, 2016 Istanbul, Turkey

ISBN: 978-969-9948-59-6

# Straight-Flow Hudro Turbine for Small Rivers

## M. B. Koshumbayev<sup>1</sup>, A. M. Koshumbayev<sup>2</sup>, P. A. Kvasov<sup>3</sup>, A. A. Yerzhan<sup>4</sup>

1,2,3,4 Kazakh Research Institute of Power Engineering named Chokin, Kazakhstan

#### Abstract

The use of eddy currents technical solutions grows every year. Our Institute deals with the problem of eddy currents to circulate in the combustion zone fuel mass and sustained movement of water in the spillway. Examples of using swirling flows in technology and various branches of industry are very much dsicussed. A major factor in such movements is its steady state. The use of vortex effect in the hydraulic unit greatly simplifies its design and increases the reliability of operation of the unit. A distinctive feature of the design is the turbine, which is made of a cylindrical pipe, in which is located the plate with smooth flow stream. Each of the plates longitudinal edge ribs attached to the inner side of the pipe and the longitudinal edge of the other fin are connected to the other plate along the axis of the pipe. The rotor of the generator is placed on top of the outside of the pipe and located in a stationary cylinder of the stator of the generator. Console the position of the blades is fixed in this case, the connection of the plates along the axis of the turbine, and increasing the length of the plates does not cause an increase in the console and, accordingly, there is no torque and voltage clamping plates. Since there are no cantilever stresses, the thickness of the plates can be very small-sized that will not affect the throughput of the turbine. The use of the pipe-turbine simplifies the design and ensures the reliability of its work. The generator rotor is mounted on the outer side of the turbine and is located within a stationary cylinder of the stator of the generator. The use of this design is suitable for designed, constructed and existing buildings, since almost every hydraulic structure has a discharge conduit. In any place of conduit you can install the proposed design of the hydraulic unit. The efficiency of this design is particularly for micro and small hydropower plants due to simple structure, reliable operation and environmentally friendly use.

#### Keywords: Straight Flow, Small River, Turbine

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<sup>3&</sup>lt;sup>rd</sup> International Conference on Innovation Trends In Multidisciplinary Academic Research (ITMAR-2016)



Abstract Proceeding Book ITMAR- October 20-21, 2016 Istanbul, Turkey

ISBN: 978-969-9948-59-6

#### The Vortex Wind Power Plant with a Flow Concentrator

## M. B. Koshumbayev<sup>1</sup>, A. M. Koshumbayev<sup>2</sup>, P. A. Kvasov<sup>3</sup>, A. A. Yerzhan<sup>4</sup>

1,2,3,4 Kazakh Research Institute of Power Engineering named Chokin, Kazakhstan

#### Abstract

Improving the efficiency and reliability of the wind unit can be achieved by generating a vortex of airflow that occurs due to the curved directing walls, and a tangential supply of air to the exhaust pipe. The curvature of the walls and blades of the unit describe the logarithmic dependence. The hub consists of a tent and cone, which are located between the curved guide wall. The outer part of the tent and the exhaust pipe black heat up under the action of solar energy, which also increases the exhaust thrust. The air flow entering the concentrator is heated by means of curved guide walls receiving a rotational movement. Increasing the temperature and reducing the living section of the flow also contribute to its stable accelerated rotational movement. Vortex motion of air causes rotation of the blades and the generator, the blades on the return stroke do not experience resistance forces. The new design of the wind farm allows to achieve the technical result in the form of increased efficiency through optimization of design's tangential inlet flow into the pipe, the reliability of the unit by eliminating the impact of the flow on the reverse stroke of the blade, improving aerodynamic operation. Additional benefits of this design include: the absence of blade vibration and the elimination of the impact of exposure to air flow. The proposed solution is a variant of the artificial ventilation of the air basin of large cities. If the question is put broadly, you can create designs that will reduce energy tornado, which is a real disaster for the Caribbean and other countries (e.g., Japan, China). The proposed design will create some turbulence that will reduce the energy of a possible tornado. However, the proposed solution will allow the energy vortex to convert it to electric current, i.e., the new design will not only create turbulence, but to use his energy.

#### Keywords: Wind Power, Plant, Concentrator

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<sup>3&</sup>lt;sup>rd</sup> International Conference on Innovation Trends In Multidisciplinary Academic Research (ITMAR-2016)

# **FUTURE EVENTS**

#### 1st INTERNATIONAL CONFERENCE ON

"Interdisciplinary Academic Research and Innovation 2016" (IARI – 2016)



Date: November 23-24, 2016

**Venue:** Indonesia Computer University **Email:** iari@globalilluminators.org

**Abstract Submission Date:** November 5, 2016 **Full Paper Submission Date:** November 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 Sciences & Humanities
- Physical Life and Applied Sciences
- Regional and Religious Studies
- Multidisciplinary and Interdisciplinary Studies

#### 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:** November 30, 2016 **Full Paper Submission Date:** December 5, 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 Sciences & Humanities
- Physical Life and Applied Sciences
- Regional and Religious Studies
- Multidisciplinary and Interdisciplinary Studies

#### 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:** January 15, 2016 **Full Paper Submission Date:** January 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 Sciences & Humanities
- Physical Life and Applied Sciences
- Regional and Religious Studies
- Multidisciplinary and Interdisciplinary Studies

#### 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:** February 5, 2016 **Full Paper Submission Date:** February 10, 2017

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 Sciences & Humanities
- Physical Life and Applied Sciences
- Regional and Religious Studies
- Multidisciplinary and Interdisciplinary Studies

#### 4th INTERNATIONAL CONFERENCE ON

"Trends in Multidisciplinary Business & Economic Research" (TMBER -2017)



Date: March 25-26, 2017

Venue: Novetal Hotel Sydney central, Sydney Australia

Email: tmber@globalilluminators.org

**Abstract Submission Date:** March 5, 2017 **Full Paper Submission Date:** March 10, 2017

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 Sciences & Humanities
- Physical Life and Applied Sciences
- Regional and Religious Studies
- Multidisciplinary and Interdisciplinary Studies

#### 4th INTERNATIONAL CONFERENCE ON

"Global Trends in Academic Research" (GTAR -2017)



Date: April 20-21, 2017

Venue: San Servolo Convention Center, Venice, Italy

Email: gtar@globalilluminators.org

**Abstract Submission Date:** April 5, 2017 **Full Paper Submission Date:** April 10, 2017

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 Sciences & Humanities
- Physical Life and Applied Sciences
- Regional and Religious Studies
- Multidisciplinary and Interdisciplinary Studies

# 3<sup>rd</sup> INTERNATIONAL CONFERENCE ON

"New Directions in Multidisciplinary Research & Practice" (NDMRP -2017)



**Date:** May 12-13, 2017

Venue: Amalia Hotel Athens, Greece Email: ndmrp@globalilluminators.org Abstract Submission Date: April 20, 2017 Full Paper Submission Date: April 25, 2017

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 Sciences & Humanities
- Physical Life and Applied Sciences
- Regional and Religious Studies
- Multidisciplinary and Interdisciplinary Studies

#### 4th INTERNATIONAL CONFERENCE ON

"Multidisciplinary Innovation Sustainability & Growth" (MISG -2017)



**Date**: July 05-06, 2017

Venue: The Federal Hotel Kuala Lumpur Malaysia

**Email:** misg@globalilluminators.org

**Abstract Submission Date:** June 15, 2017 **Full Paper Submission Date:** June 30, 2017

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 Sciences & Humanities
- Physical Life and Applied Sciences
- Regional and Religious Studies
- Multidisciplinary and Interdisciplinary Studies

#### 3rd INTERNATIONAL CONFERENCE ON

"Multidisciplinary Academic Research & Global Innovation" (MARGI -2017)



Date: August 25-26, 2017

Venue: Holiday Inn Central Plaza Beijing Email: margu@globalilluminators.org Abstract Submission Date: July 15, 2017 Full Paper Submission Date: July 30, 2017

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 Sciences & Humanities
- Physical Life and Applied Sciences
- Regional and Religious Studies
- Multidisciplinary and Interdisciplinary Studies



# CSR Activity Conducted By Global Illuminators: Sport Activation for Children against Negative Impact of Internet & Technology

In April 2016, Global Illuminators conducted Corporate Social Responsibility program together with Maestro and the Clover as Sport Facility Provider in Bandung, initiating an event with theme:



# The Objectives of this event were:

- 1. Media of education for parents and children to be aware of digital new era and its impact on children's life
- 2. Facilitate and promote futsal as one of the kinds of sports activation that can be alternative activity for children against the negative impact of internet
- 3. Social activity and charity engaging orphans to enjoy sport activities together with their friends
- 4. Corporate Social Responsibility of Company to contribute to the society especially to solve one of the social problems in Bandung.

# Highlights of CSR Activities are given below:



# Global Illuminators Malaysia Team conducted its Latest CSR activity at Rumah Charis, Kuala Lumpur, Malaysia Children Home

Global Illuminators Malaysia Team conducted its latest CSR activity at Rumah Charis, Kuala Lumpur, Malaysia Children home. The children home ministry provides care for orphans and single parent children, their homes and activities aim to create a suitable environment to enable children to grow. They help to provide spiritual direction, education, and counselling for the children. Emphasis was given to fellowshipping and spending time with the children over refreshments, as well as presenting them with small gifts and the organizing of special entertainment programmes for the children such as a special game segment. One of the other highlights of the evening was the goodie bags distribution programme carried out by Global Illuminators.



# Global Illuminators Indonesian Team conducted its Latest CSR activity in Ramadan for Local Community Welfare, Sharing Happiness and developing Orphan Children

Global Illuminators Indonesian team conducted its latest CSR activity in Ramadan for orphans. The purpose of this acitivity was to give happiness and develop orphans with the support of more than 60 volunteers and distribute iftar to more than 400 beneficiaries (yateem, orphan and dhuafa). Global illuminators indonesian team spent time with children and conducted different activities for their moral self-development.

Highlights of this activity are given below:







# **GLOBALILLUMINATORS**

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# VISION

"Researching and Developing for Humanity"

**MISSION** 

"Our mission is to persistently nurture the values to promote the human rights, institutional and academic development through quality research contributions. Our unique human capital with constructive attitude is committed to bring change in all spheres of life by using innovative research and intellectual skills. We are here to research and promote the development, prosperity and transparency across the globe without any discrimination".

2nd INTERNATIONAL CONFERENCE ON

"Regional Challenges to Multidisciplinary Innovation"

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