

6th International Conference on
**INNOVATION CHALLENGES IN
MULTIDISCIPLINARY RESEARCH & PRACTICE**
(Singapore)

BOOK OF CONFERENCE PROCEEDINGS

6th ICMRP

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ICMRP 2018

Conference Proceeding

Book of Abstracts

**6th International Conference on
“Innovation Challenges in Multidisciplinary Research &
Practice” (ICMRP- 2018)”**

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Editor:

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Country Director (Global Illuminators Iraq)

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ICMRP 2018 CONFERENCE ORGANIZING COMMITTEE

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Conference Chair Message

Farooq Ahmed Jam (Ph.D.)



6th International Conference “Innovation Challenges in Multidisciplinary Research & Practice” (ICMRP - 2018) serves as a platform that aims at helping 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 keynote 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 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 to the betterment of society and welfare of humanity to bring prosperity, peace, and harmony in this world. Stay blessed.

Type of ICMRP Papers

For this year, ICMRP 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 Empirical studies is to contribute to the scientific body of knowledge. On the contrary, Insight papers meet the needs of policymakers 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 ICMRP, all papers are judged on the same criteria (relevance, significance, originality, validity, and clarity). However, some criteria differ between the Empirical papers and the 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 empirical 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, and 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
45	25	7	13	55.5%

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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 ICMRP 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 ICMRP tradition.

Farooq Ahmed Jam (Ph.D.), Tariq Iqbal Khan (Ph.D.),
Muhammad Abbas (Ph.D.)

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KEYNOTE SPEAKERS

Prof. Dr. Husaini, MPH



Prof. Dr. Husaini, MPH is a Professor of Public Health Study Program, Faculty of Medicine, Lambung Mangkurat University, Indonesia. He graduated from Doctoral Program of Health and Medicine Science in Gadjah Mada University, Indonesia. He worked as a senior lecturer and researcher in the public health field. He was the former Head of Master of Public Health Science Program in Lambung Mangkurat University, Indonesia. His research certainly studied the case and phenomenon on the environmental health, occupational health, and health policy sectors. Currently, he is doing a research with Lambung Mangkurat University Research Group collaborating with Ministry of Health, the Republic of Indonesia in terms of stunting mitigation research. He was also actively involved in several professional organizations, such as Indonesian Public Health Union Kalimantan Selatan Region, and as an Executive Director of Center of Public Health Policy in Lambung Mangkurat University, Indonesia. He also participated in several Global Illuminators Events as a participant, international scientific review committee member, conference coordinator, and even a Keynote Speaker in ITMAR-2017 in Turkey. Eventually, he usually became a speaker on several seminars and conferences, such as International Conference of Public Health Action in Indonesia and others.

He has also published several research articles on the high impact journals and scientific books in terms of public health. His speech at ICMRP 2018 would be a great contribution to the participants’ knowledge.

ICMRP 2018 Tracks’ Chairs

Business, Management, Economic, Social Sciences and Humanities Studies

Budi Susetyo & Suriah

Health and Medicine Studies

Farooq Ahmed Jam & Tadeusz Dudycz

Engineering, Technology, Physical and Applied Sciences

Prof. Dr. Husaini, MPH & Mathew Sherin

ICMRP 2018 Research Workshop

“How to Improve the Quality of a Research Article and get it published in Scopus/ISI-Indexed Journals”

Trainer: Dr. Farooq Ahmed Jam (Ph.D.)

In this workshop, we will discuss how to improve the quality of a research article and get it published in good quality journals. Publication is considered as a KPI achievement for academic staff. It is considered to be the best way to enjoy benefits and promotion as a faculty member. In this workshop, trainer will shed light on how to identify a hot research topic, how to find a research gap, importance of a catchy Research Paper Title, what reviewers are looking for in a research article, what editors are expecting from the authors, major reasons of article rejection in good journals, steps and tips to improve article's quality and content, and finding a relevant outlet for your research. Hope this workshop will help the participants improve their understanding about the publication process.

Best Paper Nominee List

An Investigation of Inbound International Students’ We-Chat Usage and Educational Value in China

Mohammad Alauddin¹, Xuhui Wang²

^{1,2} Dongbei University of Finance and Economics, China

Technical Development to Assess Soil Health Using Soil Health Index

Latief Mahir Rachman,

Bogor Agricultural University, Indonesia

Bodyweight and Body Length of Foetus in Endothelial Dysfunction Model Pregnant Mus musculus as Preeclampsia Induction Which was Given Mild Regular Exercise

*Noor, Meitria Syahadatina¹, Santoso, Budi², Triawanti³.
Widjiati⁴*

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⁴ Airlangga University, Indonesia

360-degree VR Contents for Nursing Skill

Jung-Ha Park^{1}, Yun-Bok Lee², Yeon-Ja Kim³*

^{1,2,3} Dongseo University, Korea

Does the Par Value influence the success of IPO?

Tadeusz Dudycz^{}*

Wrocław University of Science and Technology, Poland

ICMRP 2018 Best Paper Award Winners

An Investigation of Inbound International Students’ WeChat Usage and Educational Value in China

Mohammad Alauddin¹, Xuhui Wang²

^{1,2} Dongbei University of Finance and Economics, China

Does the Par Value influence the success of IPO?

Tadeusz Dudycz^{}*

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Director Global Operations (Global Illuminators)

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Director Policy & Research (Global Illuminators)

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Manager Operations (Global Illuminators)

Editor

Dr. Ahmad Saddam (Ph.D.)

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CONFERENCE PROGRAM

DAY 01 Saturday (December 15, 2018)

Welcome Reception & Registration

08:00 am – 08:30 am

Opening Ceremony (08:30 am – 09: 35 am)

Venue: Room 1

08:30 am – 8:40 am	Welcome Remarks – Mr. Wilson	Conference Coordinator Global Illuminators
08:40 am – 8:50 am	Opening Speech – Dr. Farooq Ahmed Jam (Ph.D.)	Executive Director Global Illuminators Conference Chair ICMRP-2018
08:50 am – 09:05 am	Keynote Speech- Prof. Dr. Husaini, MPH	Professor of Public Health Study Program, Faculty of Medicine, Lambung Mangkurat University, Indonesia
09:05 am – 9:20 am	Group Photo & Award Ceremony	

Grand Networking Session and Tea Break (09:20 am – 09:35 am)

DAY 01 Saturday (December 15, 2018)

Session 1 (09:35 am – 11:30 am)

Venue: Room 1

Session Chairs: Budi Susetyo & Suriah

Track A: Business Management, Economic, Social Sciences and Humanities

ICMRP-18-118	Significance of Political Advertisements in Indian Society (A Critical analysis on ‘Swachh Bharat Mission’)	Ananya Singh
ICMRP-18-119	An Investigation of Inbound International Students’ We-Chat Usage and Educational Value in China	Mohammad Alauddin
ICMRP-18-120	Analysis and Discussion of the Ig-Nobel Prize	Ikuo Kitagaki
ICMRP-18-127	Digital Ooh Advertising in Indian Public Spaces	Mathew Sherin
ICMRP-18-136	Management of Inter-Disciplinary Undergraduate Design Curriculum: A Case Study At National Institute of Fashion Technology, Hyderabad, India.	Chiranjeevi Reddy Gudimetla
SMSTPA-18-101	Does the Par Value influence the success of IPO?	Tadeusz Dudycz

DAY 01 Saturday (December 15, 2018)

Session 1 (09:35 am – 11:30 am)

Venue: Room 1

Session Chairs: Budi Susetyo & Suriah

Track A: Business Management, Economic, Social Sciences and Humanities

SMSTPA-18-106	Discovering Promising Convergence Technologies Using Network Analysis	Hochang Choi
SMSTPA-18-109	A Survey on Organizational Learning in A Jingdezhen State-Owned Ceramics Enterprise	Hai Ding/Professor Toshimichi Homma

DAY 01 Saturday (December 15, 2018)

Workshop Session (11:30 am – 01:00 pm)

Venue: Room 1

“How to Improve the Quality of Research Article and get published in Scopus/ISI Indexed Journals”

Trainer	Dr. Farooq Ahmed Jam (Ph.D.)
Participants	All Participants

In this workshop, we will discuss how to improve the quality of research article and getting published in good quality journals. Publication is considered as a KPI achievement for academic staff. It is considered to be the best way to enjoy benefits and promotion as a faculty member. In this workshop trainer will shed light on how to identify a hot research topic, How to find a research gap, Importance of a catchy Research Paper Title, What Reviewers are looking in research article, What editors are expecting from authors, Major Reasons of article rejection in good journals, Steps and tips to improve article quality and content and Finding a relevant outlet for your research. Hope this workshop will help the participants improve their understanding about publication process.

Lunch Break: (01:00 pm – 02:00 pm)

DAY 01 Saturday (December 15, 2018)

Session 2 (02:00 pm – 3:30 pm)

Venue: Room 1

Session Chairs: Farooq Ahmed Jam & Tadeusz Dudycz

Track B: Health and Medicine Studies

ICMRP-18-128	Risk Factors of Stunting on Children Under Two Years in Hulu Sungai Utara District Kalimantan Selatan Province Indonesia Year 2017	Husaini
ICMRP-18-129	Strengthening the Intentions and Actions of the Mother in Preparing Vegetables and Fruit Menus through the Emotional Demonstration Method	Suriah
ICMRP-18-135	Bodyweight and Body Length of Foetus in Endothelial Dysfunction Model Pregnant Mus musculus as Preeclampsia Induction Which Was Given Mild Regular Exercise.	Meitria Syahadatina Noor
ICMRP-18-137	360-degree VR Contents for Nursing Skill	Jung-Ha Park
ICMRP-18-140	Evaluation of Parasite Number And Bodyweight In Mus musculus Which Was Infected by Plasmodium Berghei	Istiana

Tea Break: (03:30 pm – 03:45 pm)

DAY 01 Saturday (December 15, 2018)

Session 2 (02:00 pm – 3:30 pm)

Venue: Room 1

Session Chairs: Farooq Ahmed Jam & Tadeusz Dudycz

Track B: Health and Medicine Studies

ICMRP-18-140	Evaluation of Parasite Number And Bodyweight In Mus musculus Which Was Infected by Plasmodium Berghei	Istiana
ICMRP-18-143	The Correlation between Housing Condition and Health Status Improvement Among Children with Tuberculosis in Banjarbaru, Indonesia	Lenie Marlinae
ICMRP-18-128	Risk Factors of Stunting on Children Under Two Years in Hulu Sungai Utara District Kalimantan Selatan Province Indonesia Year 2017	Husaini

Tea Break: (03:30 pm – 03:45 pm)

DAY 01 Saturday (December 15, 2018)

Session 3 (03:45 pm – 05:00 pm)

Venue: Room 1

Session Chairs: Prof. Dr. Husaini, MPH & Mathew Sherin

Track C: Engineering, Technology, Physical and Applied Sciences

ICMRP-18-124	Technical Development to Assess Soil Health Using Soil Health Index	Latief Mahir Rachman
ICMRP-18-130	Web Based Model of the Geospatial Job Placement Using Profile Matching Method and Decision Tree in Indonesia	Budi Susetyo
ICMRP-18-133	Business Continuity and Disaster Recovery Experience of Information Security in Bangladesh	Ridwanul Alam

Closing Ceremony: (05:00 pm – 05:30 pm)

LIST OF CONFERENCE ATTENDEES

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
ICMRP-18-145	Haidar Ali	Dubai Silicon Oasis Authority	UAE

DAY 02 Sunday, (December 16, 2018)

“CITY TOUR”

Gathering of Participants at the Lobby of Hotel Grand Pacific
Singapore,
at 09.00 am Departure: 09:30 am for City Tour.

Drop Back at Hotel Grand Pacific Singapore at 1:00 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 one day before the tour.



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TRACK A: BUSINESS, MANAGEMENT AND ECONOMIC STUDIES



Does the Par Value of Share Influence the Success of Ipos?

Tadeusz Dudycz*

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Abstract

This paper examines the impact of the par value concept on the success of new issues during initial public offering (IPO) and the subsequent efficiency of companies. The study is based on a sample of IPO firms which went public on the Warsaw Stock Exchange from 1998 to 2013. The paper shows that the concept of par value – which was invented to protect buyers and lenders against shares being issued without corresponding existing assets – interacts with investor behaviour and can be used to improve the success of a share issue. The paper also shows that this concept does not affect the profitability of companies after IPO.

Keywords: Par value, Share capital, Signalling, Creditor protection, Corporate law, IPO, WSE

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Discovering Promising Convergence Technologies Using Network Analysis

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Abstract

Recently, many technologies have emerged in the form of convergence with influence of adjacent technologies. In addition, the study on predicting promising technologies among various technologies is increasing steadily. However, existing studies for promising technology prediction have some limitations. First, many studies used predefined criteria of technologies, which makes it hard for new emerging technologies to be discovered. Second, in order to forecast the promising convergence technologies, many studies used the general purpose indicators for their analysis. Unfortunately, these indicators do not reflect the unique characteristics of convergence. Third, existing research failed to provide an objective method for assessing the accuracy of promising technology prediction models. In this sense, we propose a new method for convergence technology prediction. First, we use topic modelling to derive a new technology classification from text contents. Second, we devise a new network centrality indicator (PGC, potential growth centrality) that predicts the future potential growth of each technology. The indicator not only reflects traditional measures of social network analysis (i.e., in-degree centrality and betweenness), but also regards the characteristics of convergence technology. Third, we propose a method to evaluate the accuracy of predictive models by measuring the growth rate of promising technologies. It is based on changes in the potential growth centrality of each technology. By conducting experiments on patent documents, we confirmed that the proposed model shows better performance than the existing models.

Keywords: Technology Forecasting, Convergence Technology, Social, Network Analysis, Text Analytics, Topic Modelling

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A Survey on Organizational Learning in a Jingdezhen State-Owned Ceramics Enterprise

Hai Ding^{1*}, Toshimichi Homma²

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Abstract

This research aims to investigate organizational learning through a survey focusing on the management roles in creating a shared vision and job description. From the organizational-design perspective, the study emphasizes the influence of organizational culture on organizational learning. Daily practices as well as shared values are assumed to play an essential role in organizational learning. A survey was conducted to examine the regular habits of employees and the penetration of organizational values and organizational learning. Managers of a Jingdezhen state-owned ceramics enterprise were included in the survey conducted in September 2018. It revealed that the enterprise is capable of mass production and innovative product development. However, although employees follow the orders from top managers, there appears to be a low level of autonomy. The present study needs to establish the relationship between the basis of innovation in ceramic manufacturing enterprises and low level of employee autonomy. Developing a scale to measure the autonomy of employees in ceramic manufacturing enterprises is a critical requirement.

Keywords: Organizational Learning, Organizational Culture, Innovation

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TRACK B: SOCIAL SCIENCES AND HUMANITIES STUDIES



Significance of Political Advertisements in Indian Society (A Critical Analysis on 'Swachh Bharat Mission')

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Abstract

Advertising in India has created an incredible awareness among the people in the past decade growing into a big industry. Amongst the cluster of advertising and its different forms, increase in usage of political advertising has become a global phenomenon. Political campaign planning is the theatre of confrontation among different manners of administrating power that influences the life of the people. Ever since the inception of advertising, there has been a dramatic change in the designing and promotional strategy of the campaigns. The internet is a sphere that involves virtually all levels of the political communication. Social media have caused major changes and have become useful resources often used by the politicians in order to strengthen their visibility and develop an informal identity and a relationship with the citizens. In recent years, the right type of political advertising that can hit the chords of the consumers has become an integral component of the election parties, and many consider it far more intrusive than routine commercial advertising. Indian Prime Minister Shri Narendra Modi has been framed as a forward-looking politician whose Swachh Bharat Mission initiative has become a wonderful example in provoking and reforming clean healthy habits of the Indian society. The SBM campaign was launched in 2014 with clear objectives to create awareness about sanitation, to bring behavioral changes amongst the people, to improve and educate people about the issues of open defecation, and to aware them about health and environmental consequences. Since India is on the track on becoming an economically and technologically empowered nation, the launch of SBM mission and many more powerful political campaigns has revamped the picture of India as a socially empowered nation. Hence, my study on Indian political advertising will justify its strong impact on the society.

Keywords: Political campaign, Digital Platform, Swachh Bharat Mission, Transforming Society, Socially Empowered

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An Investigation of Inbound International Students' WeChat Usage and Educational Value in China

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Abstract

Although increasing number of international students are moving toward China every year, China has become an educational hub for international students. Research on these students' domestic social media use is under-evaluated. This study aims to examine WeChat usage behavior of inbound international students in China and to understand its educational value to international students during their academic life in China. A self-administered web-based survey questionnaire was distributed to inbound international students utilizing a convenience sampling method through e-mail, WeChat contacts list, and groups. In the survey, respondents were also requested to forward the link to their friends. Sample lists were collected from international offices of three universities of Dalian city in China. In total, 546 valid respondents (male 446, female 100) from 39 countries participated in the survey. Age ranged from 18 to 39 years old. The study findings reveal that among all internal social media tools, WeChat is the first choice of all international students in China. The study figures out that WeChat payment services, free mobile calling, built-in text translating facility, and multi-modal chatting are four main attractive features to students. This study also explores that WeChat has significant potential in academic settings. The majority of international students welcomed WeChat use for teaching & learning purposes to extend the classroom education and heartily agreed with WeChat technological and pedagogical affordance. This study concludes by discussing international students' WeChat usage purpose with its implication in enhancing educational value and suggestions for future studies.

Keywords: Wechat, Mobile Social Media, International Students, Education, Social Capital

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Analysis and Discussion of the Ig-Nobel Prize

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Abstract

The Ig Nobel Prizes are selected and given to the winners based on the criterion of “Research that makes people LAUGH and then THINK”. It naturally includes the unexpected or fantastic research. This material conducts the statistical analysis and qualitative analysis of the research. As the consideration, it refers to the feature of the Japanese researches. As the statistical analysis, first, we survey how much the relevant research materials are registered to the academic database SCOPUS. We obtained that the registration rate gets bigger along with the year since 1991 when the Prize started. Second, we survey how many researches of a country were awarded. In the survey, we selected the three fields of physics, chemistry, and medicine/physiology as same as the scientific field of the authentic Nobel Prize. We allocated each five years beginning in 1991 to a section, then got the average over the three fields for each section. Then we obtained that the USA got the biggest proportion for the 1st through 4th section and Japan got the biggest proportion for the 5th section which means 2011 through 2015. As the qualitative analysis, we surveyed how unexpected the awarded researches are. Then we obtained that there are seven types in those researches; sex organ or excretion relations, dangerous relations, and so forth. Lastly, we conduct the consideration on Japanese features. We obtained the features; Japanese winners tend to regard scientific approach, regard original unexpectedness which is supposed to be an emotion inductive to laughing instead of regarding the laugh itself and so forth.

Keywords: Ig Nobel Prize, Statistical Analysis, Laugh

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Digital Ooh Advertising in Indian Public Spaces

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Abstract

India is a developing nation with advancements in almost all sectors of education, economy, health, IT, and especially the ever-changing advertising industry. It is growing at a rapid pace and is consistently expanding with new media technology in the market for effective communication with target audience. Out of Home (OOH) advertising has aroused as an innovative and popular medium of communication to mass audience in last few decades. The traditional OOH media, such as hoarding and posters, have now given way to the new LED Display advertisements or Digital out of Home (DOOH) which are emerging as a fast-growing medium in public spaces. This medium is still new in Indian environment with a combination of content and display, altogether aims to enhance viewers' experience. The study will be contributing based on the results that how digital LED ads in public spaces in India can improve society's awareness and acceptance of a brand with the objective to find out to what extent this medium has been used by the government for public welfare and by the brands or other organisations for achieving their targets. It will also find out whether this medium is acceptable by public as a reliable and effective source of information based on the literacy rates, demographic segmentation, and consumer psychology. The research is carried out in Jaipur city of Rajasthan through questionnaire and sample group test. The limitations of the study are that Digital OOH media are not cost-effective and are certainly a huge challenge for the Indian advertisers to make it successful and widely acceptable in India where power supply is always a matter of concern. My hypothetical conclusion will try to figure out the justifiable reasons for accepting these media curbing the fact that if the advertiser takes the risk of using these media, it might cause visual pollution to the Indian public and may lead to some serious mishappenings. The overall study will also contribute to the growing use of new media technology by the advertisers for the betterment of Indian society in several ways.

Keywords: DOOH, Media, Public Spaces, New media Technology, Advertiser

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Management of Inter-Disciplinary Undergraduate Design Curriculum: A Case Study at National Institute of Fashion Technology, Hyderabad, India.

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Abstract

The common purpose of management of any curriculum is to ensure that all students get the most out of their education and they further contribute to society in a meaningful and beneficial way. Managing inter-disciplinary curriculum is always a challenging task as it involves the coordination of multi-disciplinary faculty, students, and support services. Demand of interdisciplinary and multidisciplinary knowledge is increasing continuously to support the new application areas and its demanding nature to meet the twenty-first century requirements. According to Campbell and Henning (2010), an interdisciplinary tack suggests a non-traditional approach to learning that often includes collaborative teaching, assessment, and curriculum designs that are more topic, issue, place, or problem-based rather than discrete bodies of knowledge or skill-based. National Institute of Fashion Technology (NIFT) is a premier fashion institution in India, offering different interdisciplinary vocational programmes related to fashion design, technology, and management. The present research investigates how the NIFT Hyderabad centre, one of the NIFT's sixteen Campuses, has been managing its curriculum. It is a descriptive study based on the secondary information and data acquired from the institution and other sources. In the outset, the paper described the existing organisational setup of curriculum management. The composition of NIFT Hyderabad centre's multi-disciplinary faculty members, students, and curriculum of different interdisciplinary courses in terms of the four major areas; Fine Arts, Design, Technology, and Management is also analysed to know how these transversal competencies are working together. The important seven aspects of curriculum management considered in the present study are: curriculum design/redesign/restructuring, curriculum implementation, curriculum deliverance, curriculum monitoring, curriculum evaluation and feedback, and students' feedback on curriculum deliverance. The findings are critically analysed to know the strengths and weaknesses of the existing system.

To be continued.....



To be continued.....

Keywords: Interdisciplinary Curriculum, Fashion Education, NIFT,
Multidisciplinary Faculty, Design Education

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TRACK C: ENGINEERING & TECHNOLOGY STUDIES



Web-Based Model of the Geospatial Job Placement Using Profile Matching Method and Decision Tree in Indonesia

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Abstract

The development of the geospatial industry has been increasing rapidly with the quality demands of geospatial information products. On the other hand, Quality of geospatial information requires a variety of technology and competence of workforce. Currently, the geospatial conditions and the workforce in the field of geospatial information have a variance of features amid global, regional, and international competition. Hence, the government will continue to improve competitiveness and workforce in this field through appropriate policy, regulations, and training. The geospatial industry requires workers who are reliable and competent in their fields. They need also both in terms of formal education (university) and non-formal education, such as training, competence certificates, academic abilities, psychological test results, and tests given by geospatial companies. The aims of research are creating a model for placing the suitable job position of geospatial workforce scheme based on the industry requirement. Profile matching method and decision tree are used in the analysis. The results of the study indicate the need for mutual use of information between industry and geospatial workforce through follow-up processes for the certain job positions. The benefit of the model is making transactions easier for both parties to fulfil the job needs according to the occupational scheme set by the company.

Keywords: Competency, Competitiveness, Decision Tree, Profile Matching, Geospatial Workforce and Industry

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Business Continuity and Disaster Recovery Experience of Information Security in Bangladesh

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Abstract

Every business considers its data loss and protection a priority. Business continuity and disaster recovery plan is a vital issue of an organization or business for protecting their data security and their continuous process. The objective is the best practices to prepare, deploy, and maintain a business's continuity and disaster recovery plan for avoiding risks on-site and on the cloud. Most of the business or organization does not follow the proper way to secure their data and continuous operation process in Bangladesh. Here is the implementing a framework that is ISO 22301- the latest business continuity and disaster recovery plan standard called "Societal Security Business Continuity Management Systems Requirements" commonly known as Plan-Act-Do-Check. A discussion about some of the important issues which are playing a vital role in the organization like the improper power supply for hardware types of equipment, virus attacks for unregistering software, human error due to the lack of training and so on. After that, here is introducing a framework with existing issues and related regulations and laws which are only valid for document digitalization business in Bangladesh. This process is the following three steps for successfully implementing the business continuity and disaster recovery plan. Firstly, to find out their existing model for business continuity process which is similar to business continuity and disaster recovery plan; secondly, to examine various related standards and device testing for proper output and finally to implement and periodically improve sustainable business continuity and disaster recovery plan. This paper is analyzing some of the major issues in the organization when they should consider for implementing the planning process project with key elements of business continuity and disaster recovery plan. In the future, introducing a model business continuity and disaster recovery plan framework for the medium type of business in Bangladesh.

Keywords: Information Security, Business Continuity, Disaster Recovery

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TRACK D: PHYSICAL LIFE AND APPLIED SCIENCES



Technical Development to Assess Soil Health Using Soil Health Index

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Abstract

In the era of disruption, agriculture 4.0, industry 4.0 and sustainable development, accurate and practical data of natural resources are needed, particularly data on soil health. The data of the soil health are required both for planning and assessing whether the soil will or is being used in accordance with the requirements and needs as well as for baseline assessments whether the health of the soil was improved or degraded due to the soil use and the soil management system used. Data about soil health are not only related to and needed for agriculture related to securing the production of food, clothing and shelter, but are also needed for other fields that use soil and maintain health and preserve the environment. Ironically, especially in Indonesia, there are no tools that have been developed and used extensively and standardized to assess soil health. Thus, the development of tools to assess soil health is an urgent need in Indonesia. The ideas and wishes of researchers and practitioners in the fields of soil science, land management, agriculture, and the environment to establish tools to assess soil health have long been developing. But assessing or measuring soil health is not as easy as assessing air and water quality. The technique developed to assess or measure soil health proposed by the author is to use soil health index. The technique determines and uses a minimum dataset consisting of 13 (thirteen) main parameters of soil equipped with the function or role of each parameter along with its weighting coefficient and how to assess each parameter and calculate the total health score of the soil studied. Furthermore, the total health score of the soil is then classified into 5 levels of soil health, from very good to very poor levels.

Keywords: Soil Health, Soil Health Assessment, Soil Health Index, Soil Health Score

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TRACK E: HEALTH AND MEDICINE STUDIES



Risk Factors of Stunting on Children Under Two Years in Hulu Sungai Utara District Kalimantan Selatan Province Indonesia Year 2017

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Laily⁷, Doddy Izwardy⁸, R. Giri Wurjandaru⁹**
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Abstract

Indonesia was included in 47 countries from 122 countries that have stunting problems on children year 2014. Children with stunting run the risk of experiencing physical and brain growth barriers. Children under 2 years of age have a window of opportunity and critical period of growth that is very important in determining human growth and health. The Basic Health Research Data show the prevalence of stunting on children under 2 years of 30.8% (high category) in 2017. The stunting prevalence in Kalimantan Selatan in 2017 was 34.1%, where Hulu Sungai Utara District was one of the districts with a very high prevalence of stunting (39.4%). This study aims to determine the risk factors of stunting on children under 2 years in Hulu Sungai Utara District. It was a descriptive research. Samples are 627 million from the 13 working areas of public health center in Hulu Sungai Utara District. The results showed that 35.6% of mothers married early at 12-16 years of age, low maternal education level (elementary - junior high school) of 75.6%, pregnant women with anemia of 64.8% (47.8% of them were using less Fe tablets), 90% of pregnant women experience underweight, 90% of the expenditure for consumption level of low nutritious foods, 39.5% choose food due to the price, 25.8% of children under 2 years are given food with balanced nutrition, 78.8% of children under 2 years were cut off by nails once a week, and 17.7% of mothers washed their hands with soap before breastfeeding. The conclusions of this study are stunting risk factors for children under 2 years in Hulu Sungai Utara District, namely parenting, parental education, and hygiene.

Keywords: Citizen Participation, USR, Regeneration Strategy

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Strengthening the Intentions and Actions of the Mother in Preparing Vegetables and Fruit Menus through the Emotional Demonstration Method

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Abstract

The main subject in providing a menu of vegetables and fruit in the family is the mother. Therefore, an intervention program is needed in the form of an educational method about the benefits and provision of vegetables and fruits at the household level, which can arouse the emotions, and memories of the mother. This study aims to implement the emotional demonstration education method in providing reinforcement of mother's intentions and actions in providing a menu of vegetables and fruits for the family. The research method used quasi experiment with The non-equivalent control group design. The target population is 649 people, with a sample of 90 housewives (divided into 2 groups; 45 interventions and 45 controls) in two villages. Pre-post-test measurements were carried out to obtain the strengthening of intention and action aspects in providing vegetables and fruits at the household level. The results showed that there was an increase in the intention of housewives in the intervention group by 6.8 points at the value of $p = 0.003$, while in the control group, the opposite occurred in the form of a decrease in the score of 6.8 ($p = 0.229$). In addition, there was also an increase in the percentage of housewives who had good actions after the intervention in the two groups, but the number of percentage increases in the intervention group was much greater at 82.3% ($p = 0.000$) compared to the control group which was only 2.3% ($p = 1.000$). It was concluded that the intervention using the emotional demonstration method could strengthen the intention and improve the mother's actions in providing a menu of vegetables and fruits for her family. It is recommended that relevant parties, such as the health office, health center, and government at the village level be able to collaborate in promoting educational efforts about the importance of providing a menu of vegetables and fruits with the main goal of mothers using the emotional demonstration method integrated into the community movement program to eat fruits and vegetables.

To be continued...



To be continued...

Keywords: Mother's Intentions and Actions, Vegetable Menu & Fruit,
Emotional Demonstration Method

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360-degree VR Education Contents for Nursing Skill

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Abstract

The background of Virtual Reality (VR) is increasing attention due to the interest in worldwide education markets and the rapid growth of the internet technology. Content for HMD devices with educational purposes has been developed in many studies by virtue of positive educational effects. In this study, we aim to develop and evaluate 360 VR contents for nursing skill by using Samsung Gear which is one of familiar VR devices in Korea. With VR, the user is immersed more easily. 360 VR contents for nursing skill were divided into two parts: Intravenous injection (IV) and Basic Cardiopulmonary Resuscitation (CPR). It was developed based on Successive Approximation model (SAM). The running time of the contents was 5 ~ 8 minutes. It was developed from June 11, to November 10, 2018. In result, a total of 25 nursing students and 7 career break nurses in Busan were recruited as users of the 360 VR. The present evaluation of the nursing students was an average of 4.75 out of 5 points. The students' learning satisfaction, intuitiveness, and educational content evaluation were recorded 4.49, 4, 4.44 out of 5 points. The present evaluation of the career break nurses was an average of 4.43 out of 5 points. The students' learning satisfaction, intuitiveness, and educational content evaluation were recorded 4.4, 3.76, 4.39 out of 5 points. The development of other 360 VR educational contents to experience practical nursing skills is recommended.

Keywords: Virtual Reality, Education Contents, Nursing Skill, Satisfaction

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Bodyweight and Body Length of Foetus in Endothelial Dysfunction Model Pregnant Mus musculus as Preeclampsia Induction Which was Given Mild Regular Exercise

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Abstract

Preeclampsia is a condition with high diastol blood pressure \geq 90 mmHg and proteinuria in \geq 20 weeks of gestation. Preeclampsia was the second cause of maternal mortality in Indonesia. Preeclampsia is signed by endothelial dysfunction. Prevention of preeclampsia had not been developed yet. Exercise is activity which can induce endogen anti-inflammation and antioxidant. So, it can be used to prevent the same process in preeclampsia. The goal of this research was analyzing the difference of bodyweight and body length in endothelial dysfunction pregnant Mus musculus which was given mild regular exercise and without exercise. This research used experimental post test only with control group design, consisted of 2 steps. Step 1 to know the dose of anti QA2, and step 2 to know the effect of mild regular exercise on bodyweight and length of foetus. Step 2 consisted of 4 groups (K1 for normal pregnant, K2 for endothelial dysfunction model pregnant, K3 for endothelial dysfunction model pregnant with mild regular exercise since early pregnant, K4 for endothelial dysfunction model pregnant with mild regular exercise since 1 week before pregnant). The number of Mus musculus were 6/group based on Federer formula. Determination of anti QA2 dose to induce endothelial dysfunction was done by using some doses and examining vasoconstriction of vessel in uterus by HE examination. The dose that caused optimal vasoconstriction was 50 ng. The result was there was no significant difference of bodyweight and body length in endothelial dysfunction pregnant Mus musculus as preeclampsia induction which was given mild regular exercise and without exercise.

Keywords: Bodyweight, Body length, Endothelial Dysfunction, Exercise

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Evaluation of Parasite Number and Bodyweight in *Mus musculus* Which Was Infected by *Plasmodium Berghei*

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Abstract

Malaria is an infectious disease because of *Plasmodium* Sp. and it is spread by *Anopheles* mosquito. *Anopheles* lives and breeds in the field, forest, and river/beach. People who can be suffered from malaria are about 41% in the world. One of the developments of malaria research can be done in animal model. This research's goal was making animal model of malaria infection analyzing the differences of parasite number and bodyweight of *Mus musculus* in day 0 until day 4 of infection. Research method was experimental using post test only with control group design and time series. Infection of *Infeksi P. berghei* was injected intraperitoneal in *Mus musculus*; it was called day 0. Evaluation of parasite number and bodyweight of control group and infection group were done every day since day 0 until day 4. Number of *Mus musculus* was 18/group. The results were there were significant differences of parasite number and bodyweight of control group and infection group in *Mus musculus* among day 0, 1, 2, 3 and 4. The conclusion was *P. berghei* infection could be used to induce malaria infection in *Mus musculus*.

Keywords: Parasite Number, Bodyweight, *P. Berghei*

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The Correlation between Housing Condition and Health Status Improvement among Children with Tuberculosis in Banjarbaru, Indonesia

**Lenie Marlinae¹, Husaini², Laily Khairiyati³, Tien Zubaidah⁴,
Muhamad Ratodi⁵**

^{1,2,3} Lambung Mangkurat University, Indonesia

⁴ Environmental Health Department, The Ministry of Health
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⁵ State Islamic University of Sunan Ampel, Indonesia

Abstract

The child Tuberculosis prevalence in Indonesia until 2011 was reported to have reached 8.8% of the national cases. In 2015, The South Kalimantan province also indicated a high number of cases on child Tuberculosis, with the total of 278 cases detected and 28 of them happened in Banjarbaru city. Although it is alleged that occupancy health is an important factor in reducing the risk of child TB cases, various other factors cannot be ignored. This research was an intervention study using a cross-sectional approach. All child TB patients who were officially recorded in the Banjarbaru City Health Office became the study population, while all children with Tuberculosis who were listed as patients in Banjarbaru's Primary Health Center during January until October 2018 acted as research respondents. The results showed that there was no significant relationship ($p\text{-value} = 0.883$) between the housing environmental health and the children TB incidence in Banjarbaru, and insignificant correlation between residential housing condition with the health status improvement among children with Tuberculosis in Banjarbaru City.

Keywords: Child TB, Home Conditions, Health Status

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FUTURE EVENTS

5th INTERNATIONAL CONFERENCE ON
“Global Issues In Multidisciplinary Academic Research
”(GIMAR-2019)



Date: February 27-28, 2019

Venue: Hotel Mystays Ochanomizu Conference Center
Tokyo, Japan

Email: gimar@globalilluminators.org

Abstract Submission Date: January 10, 2019

Full Paper Submission Date: January 15, 2019

Selected conference papers will be published in the 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

For more details, visit www.globalilluminators.org

6th INTERNATIONAL CONFERENCE ON
“Trends in Multidisciplinary Business & Economic
Research” (TMBER-2019)



Date: March 23-24, 2019

Venue: Holiday Inn Potts Points, Sydney Australia

Email: tMBER@globalilluminators.org

Abstract Submission Date: February 25, 2019

Full Paper Submission Date: March 05, 2019

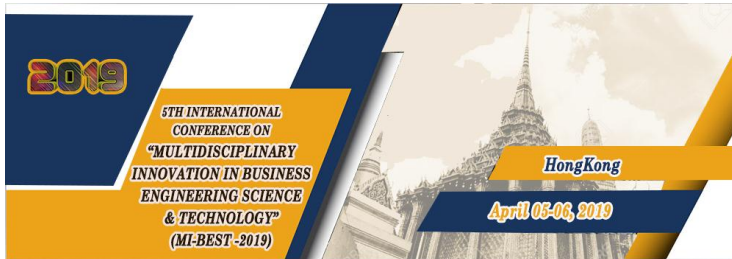
Selected conference papers will be published in the special /regular issue of ISI/Scopus-indexed journals associated with this conference.

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

For more details, visit www.globalilluminators.org

**5th INTERNATIONAL CONFERENCE ON
“Multidisciplinary Innovation in Business Engineering
Science & Technology”
(MI-BEST -2019)**



Date: April 05-06, 2019

Venue: Grand View Hotel, Hong Kong

Email: mibest@globalilluminators.org

Abstract Submission Date: March 15, 2019

Full Paper Submission Date: March 20, 2019

Selected conference papers will be published in the 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

For more details, visit www.globalilluminators.org

**6th INTERNATIONAL CONFERENCE ON
“Global Trends in Academic Research”
(GTAR -2019)**



Date: April 20-21, 2019

Venue: Novotel Barcelona Sant Joan Despi, Spain

Email: gtar@globalilluminators.org

Abstract Submission Date: April 05, 2019

Full Paper Submission Date: April 10, 2019

Selected conference papers will be published in the 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

For more details, visit www.globalilluminators.org

**5th INTERNATIONAL CONFERENCE ON
“New Directions in Multidisciplinary Research &
Practice”(NDMRP-2019)**



Date: May 11-12, 2019

Venue: Hilton London Heathrow Airport Terminal 5, UK

Email: ndmrp@globalilluminators.org

Abstract Submission Date: April 15, 2019

Full Paper Submission Date: April 20, 2019

Selected conference papers will be published in the 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

For more details, visit www.globalilluminators.org

**6th INTERNATIONAL CONFERENCE ON
“Multidisciplinary Innovation for Sustainability and
Growth” (MISG – 2019)**



Date: June 25-26, 2019

Venue: The Federal Kuala Lumpur Malaysia

Email: misg@globalilluminators.org

Abstract Submission Date: May 30, 2019

Full Paper Submission Date: June 05, 2019

Selected conference papers will be published in the 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

For more details, visit www.globalilluminators.org

**5th INTERNATIONAL CONFERENCE ON
“Multidisciplinary Innovation In Academic Research”
(MIAR – 2019)**



Date: July 27-28, 2019

Venue: The Howard Plaza Hotel Taipei, Taiwan

Email: miar@globalilluminators.org

Abstract Submission Date: July 10, 2019

Full Paper Submission Date: July 15, 2019

Selected conference papers will be published in the 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

For more details, visit www.globalilluminators.org

**6th INTERNATIONAL CONFERENCE ON
“Multidisciplinary Academic Research and Global
Innovation” (MARGI– 2019)**



Date: August 24-25, 2019

Venue: Kuntai Hotel Beijing China

Email: margi@globalilluminators.org

Abstract Submission Date: August 10, 2019

Full Paper Submission Date: August 15, 2019

Selected conference papers will be published in the 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

For more details, visit www.globalilluminators.org

**6th INTERNATIONAL CONFERENCE ON
“Multidisciplinary Trends in Academic Research”
(MTAR– 2019)**



Date: September 27-28, 2019

Venue: Holiday Inn Bangkok Silom, Bangkok Thailand

Email: mtar@globalilluminators.org

Abstract Submission Date: September 05, 2019

Full Paper Submission Date: September 10, 2019

Selected conference papers will be published in the 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

For more details, visit www.globalilluminators.org

**5th INTERNATIONAL CONFERENCE ON
“Research Challenges to Multidisciplinary Innovation”
(RCMI– 2019)**



Date: October 05-06, 2019

Venue: Nine Tree Premier Hotel Myeongdong 2 Seoul, South Korea

Email: rcmi@globalilluminators.org

Abstract Submission Date: September 20, 2019

Full Paper Submission Date: September 25, 2019

Selected conference papers will be published in the 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

For more details, visit www.globalilluminators.org

**6th INTERNATIONAL CONFERENCE ON
“Innovative Trends in Multidisciplinary Innovation”
(ITMAR– 2019)**



Date: October 19-20, 2019

Venue: Istanbul Gonen Hotel, Istanbul, Turkey

Email: itmar@globalilluminators.org

Abstract Submission Date: September 25, 2019

Full Paper Submission Date: October 9, 2019

Selected conference papers will be published in the 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

For more details, visit www.globalilluminators.org

**6th INTERNATIONAL CONFERENCE ON
“Emerging Trends in Academic Research” (ETAR–2019)**



Date: November 27-28, 2019

Venue: The Trans Resort Bali, Indonesia

Email: etar@globalilluminators.org

Abstract Submission Date: November 05, 2019

Full Paper Submission Date: November 15, 2019

Selected conference papers will be published in the 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

For more details, visit www.globalilluminators.org

CSR



Environment

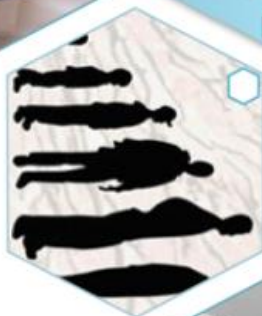
Charities

Public Health



Growth and
Development

Sustainability



CSR

CSR Activity Conducted By Global Illuminators: Sports 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 Sports Facility Provider in Bandung, initiating an event with the theme:



The Objectives of this event were:

1. Media of education for parents and children to be aware of the 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 an alternative activity for children against the negative impact of the internet
3. Social activity and charity engaging orphans to enjoy sports activities together with their friends
4. Corporate Social Responsibility of the 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 counseling for the children. Emphasis was given to fellowshiping 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 activity 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:





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".

VISION

"Researching and Developing for Humanity"

6th International Conference on
"INNOVATION CHALLENGES IN
MULTIDISCIPLINARY RESEARCH & PRACTICE"
(6th ICMRP - 2018)

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