

9TH INTERNATIONAL CONFERENCE ON "GLOBAL ISSUES IN MULTIDISCIPLINARY ACADEMIC RESEARCH" (GIMAR-2025)

BOOK OF CONFERENCE PROCEEDINGS

GIMAR

February 15-16, 2025

9TH INTERNATIONAL CONFERENCE ON
"GLOBAL ISSUES IN MULTIDISCIPLINARY
ACADEMIC RESEARCH"

Tokyo, Japan

Organized by:



GLOBAL
ILLUMINATORS

9th International Conference On
“Global Issues In Multidisciplinary Academic Research”
(GIMAR-February 15-16, 2025; GIMAR© 2025 Tokyo, Japan)
Global Illuminators, Kuala Lumpur, Malaysia.



GIMAR- 2025

Conference Proceeding

Book of Abstracts

9th International Conference On
“Global Issues In Multidisciplinary Academic Research”
(GIMAR-2025)

Venue: Hotel Mystays Ochanomizu Conference Center Tokyo,
Japan

Editor:

Dr. Ahmad Saddam Ph.D.

Country Director (Global Illuminators Iraq)

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Conference Chair Message

Farooq Ahmed Jam (Ph.D.)



9th International Conference On “Global Issues In Multidisciplinary Academic Research” (GIMAR-2025) 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

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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 GIMAR Papers

For this year, GIMAR 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 GIMAR, 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
55	35	2	20	56.6%

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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 GIMAR 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 GIMAR tradition.

Farooq Ahmed Jam (Ph.D.), Muhammad Abbas (Ph.D.)
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SCIENTIFIC REVIEW COMMITTEE
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Business, Management, Economic

Dr. Sedigheh Moghavvemi (Associate Professor)

Engineering & Technology Studies

Jing-Fa Tsai (Professor)

GIMAR-2025 Key Note Speakers

Dr. Muhammad Faizal Bin A. Ghani

Associate Professor



He is an Associate Professor in the Department of Educational Management, Administration and Policy, Faculty of Education, University of Malaya, Kuala Lumpur. Her expertise is Educational Leadership focusing on Educational Management and Administration, and School Finance. His expertise is for the benefit of society by sharing some academic knowledge, skills, and value in the forms of reading material such as publishing 15 academic books, 40 proceeding and 217 articles. His latest academic book entitled “Professional Learning Communities: Theories and Practices”. In terms of delivering an academic speech, he has been selected to be keynote speakers and invited speakers for some international and national conferences, seminars, and workshops. In the research area, besides being an evaluator for research proposals of his university’s academic staff, he has been awarded more than USD80,000 research grants for his interest in School Effectiveness and School Improvement, Educational Leadership and School Finance. Therefore, all experiences of him are put in the shape of a journal namely Malaysian Online Journal of Educational Management by appointing him as an editor besides being an editorial board for some international journals like Bannu University Research Journal in Education, Journal of Economics and Finance, European Journal of Educational and Social Sciences and International Journal of Education Teaching and Learning.

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CONFERENCE PROGRAM

DAY 01 Saturday (February 15, 2025)

Venue: Hotel Mystays Ochanomizu Conference Center Tokyo, Japan

9:00 am – 09:10 am	Welcome Reception & Registration
09:10 am – 09:20 am	Opening Speech – Mr. Hussein Coordinator, Global Illuminators
09:20 am – 09:30 am	Introduction of Participants
09:30 am – 09:40 am	Group Photo & Award Ceremony

Grand Networking Session (09:40 am – 10:00 am)

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DAY 01 Saturday (February 15, 2025)

Session I (10:00 am – 11:00 am)

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

GIMAR-FEB25-101	The Role of Volunteer Initiatives in Improving Literacy and Reading Engagement Among Rural Children	Narendra Jumadil Haikal Ramadhan
GIMAR-FEB25-102	The Role of Volunteers in Enhancing Rural Creative Economy for Sustainable Development	Amilusholihah
GIMAR-FEB25-106	The Role Of School Public Relations In Increasing Competitiveness	Hanifah, Khusnul
GIMAR-FEB25-107	Integration of Religion and Science in Indonesian Religious Universities as a New Intellectual Culture	Muhammad Syihabuddin
GIMAR-FEB25-108	PTSD Profile Analysis in High School Students: Identification of Trauma Barriers and Symptoms	Nia Anggara
GIMAR-FEB25-110	The Principal's Strategy in Developing Religious Culture of High School Students	Ahmad Abu Rizki
GIMAR-FEB25-124	Unpacking the Role of Leadership and Entrepreneurial Skills: Mediation Moderation Enhancing the Firm Innovativeness	Dr. Rudsada Kaewsang-on

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DAY 01 Saturday (February 15, 2025)

Session II (11:00 am – 12:00 pm)

Track B: Health and Medicine Studies

GIMAR-FEB25-141	The Oral P. Gingivalis Removing By Oral Caring Method	Pei-Ju, Lin
GIMAR-FEB25-142	Development of Digital Barcode Microbeads Based Multiplex Immunoassay for Determination of Severe Dengue	Tien-Chun Tsai
GIMAR-FEB25-143	The Effect of Multicultural Role Play on Multicultural Perception and Empathy Ability of Nursing College Students	Miyoun Cha
GIMAR-FEB25-144	Key Factor for Medical Device Translational Research: Based on NCKUSPARK Program	Yu-Pei Huang

Track C: Engineering, Technology, Computer and Applied Sciences

GIMAR-FEB25-133	Transformative Approach To Energy Management And Production Through Integration Of Microgrids And Vpps, With Advanced Technologies	Siyeong Park
GIMAR-FEB25-146	Evaluation of a Prototype of the Air Conditioner Service Reminder System: A case of Indonesian MSMEs	Juhriyansyah Dalle

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

GIMAR-FEB25-149	Developing and Applying Financial Information System to Enhance the Development and Management for Supporting Service Business and Activities of Piyamit 1 Tunnel Community	Raksudjarit Sukrita
GIMAR-FEB25-129	Women And Nature: Analysing Kaine Agary’s Yellow Yellow (2006). Through The Lens Of Ecofeminism.	Ikechi Chioma Elizabeth
GIMAR-FEB25-130	Income Capital And Resilience Among Urban Poor Communities In Malaysia	Nor Fatimah Che Sulaiman
GIMAR-FEB25-131	Multidisciplinary Innovative Teaching Technique By Combining Virtual Reality With Co-Construction Learning Method	Jeanne Lee

Lunch Break and Closing Ceremony (12:00 pm to 01:00 pm)

List of Conference Attendees

The following Scholars/ practitioners/educationist who don’t have any paper presentation, however they will attend the conference as delegates & observers.

Sr. No	Official ID	Name	Affiliation Details
1.	TOK-3225-101M	Yu-Kai Su	Pomona Valley Medical Center, USA
2.	GIMAR-25-122A	Pinichchan, Ganyarat	Yala Rajabhat University, Thailand
3.	GIMAR-25-109A	Kwanrutai Saelim	Yala Rajabhat University, Thailand

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DAY 02

Sunday, (February 16, 2025)
“CITY TOUR”

All respected guests will join for a free sightseeing tour organised by GIMAR-2025 committee. The second day of the event is reserved for this memorable purpose and academic social networking.



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TRACK A: BUSINESS, MANAGEMENT, SOCIAL SCIENCES AND ECONOMIC STUDIES



The Role of Volunteer Initiatives in Improving Literacy and Reading Engagement Among Rural Children

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Abstract

Limited access to resources and entrepreneurial training in rural areas often hampers the development of a sustainable creative economy. This study aims to examine the role of volunteers in addressing these challenges and supporting the growth of the rural creative economy for sustainable development in rural areas of Indonesia, using the Lumbung Literacy Foundation as a case study. A qualitative approach was employed, with data collected through in-depth interviews with the foundation's founder, project leaders, village communities, and participants of the volunteer independence program, supplemented by observation and document analysis. The findings reveal that volunteers act as agents of change by fostering creativity and innovation within communities. They provide skill-building workshops, facilitate access to resources, and promote local products, which in turn improves community income and well-being. Volunteers also play a crucial role in expanding market networks for rural products by leveraging digitalization, such as online marketing and e-commerce platforms, enabling rural goods to compete in broader markets. This study emphasizes the importance of collaboration between volunteers and local communities, where skill transfer is adapted to the cultural context. Volunteer-driven initiatives have been shown to significantly contribute to sustainable rural development by empowering local economies and preserving cultural heritage through creative activities. It is recommended that similar programs be expanded to other rural areas in Indonesia by strengthening collaboration between governments, volunteers, and local communities.

Keywords: Creative Economy; Sustainable Development; Rural Areas; Volunteer Program; Digitalization

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The Role of Volunteer Initiatives in Improving Literacy and Reading Engagement Among Rural Children

Narendra Jumadil Haikal Ramadhan^{1*}, Amilusholihah², Rizki, Ahmad Abu³

^{1,3}Maulana Malik Ibrahim State Islamic University Malang,

²Indonesia University of Education

Abstract

This study examines the role of volunteer initiatives in enhancing literacy and fostering reading engagement among children in rural areas. Low literacy rates and a lack of reading interest are common challenges in underdeveloped regions, often due to limited access to educational resources and support. This research focuses on an educational program at independence volunteer program designed to address these issues by introducing interactive reading activities and literacy workshops for children. This research uses a qualitative approach with a case study. Data were collected through indepth interviews with the founder of Literasi Lumbung Lombok, the Project Leader and participants of the independence volunteer program, students, observations, and analysis of relevant documents. The findings suggest that volunteer efforts can significantly contribute to the educational development of rural communities, particularly when programs are tailored to the specific needs of the population. Key findings include an increase in children's engagement with reading, developing basic literacy skills, building community ownership and sustainability, and increasing children's enthusiasm. This article provides valuable insights for policymakers and educators aiming to replicate such initiatives in similar contexts, offering a model for sustainable literacy improvement in underserved areas.

Keywords: Volunteer Initiatives; Literacy Development, Reading Engagement, Rural Education

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The Role Of School Public Relations In Increasing Competitiveness

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Abstract

This research aims to examine in more depth the role of Public Relations in increasing competitiveness at MTsN 02 Malang City by highlighting various activities and strategies carried out by Public Relations of MTsN 02 Malang City. This research used a qualitative research approach with a case study type of research. Data collection techniques through interviews, observation and document study. Data analysis is carried out during the data collection process until the research is carried out, including data condensation activities, data presentation and drawing conclusions. The results of this research show that the role of public relations and its strategy in increasing competitiveness is implemented with two public relations programs at MTsN 02 Malang City in introducing madrasahs with publications, namely offline publications and online publications and establishing good relations with internal and external parties. Apart from that, supporting and inhibiting factors were also found for Public Relations at MTsN 2 Malang City in carrying out its role. The supporting factors are, the head of the madrasah, all WAKA, teachers and employees as well as the support factor of alumni and parents/guardians of students. Meanwhile, the inhibiting factors are limited facilities and infrastructure and complaints from students' parents/guardians.

Keywords: School, Public Relations (PR), Competitiveness

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Integration of Religion and Science in Indonesian Religious Universities as a New Intellectual Culture

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Abstract

The integration of religion and science has become a strategic issue in religious universities in Indonesia, especially in the face of increasingly complex globalization challenges. This integration effort aims to produce a generation of intellectuals who not only have a deep understanding of spiritual values. Still, it can also contribute innovatively to the development of science and technology. This study focuses on the implementation of integration as a new intellectual culture in religious universities, emphasizing the role of these institutions in building paradigms that combine spirituality and rationality in the modern era. Using a qualitative approach with case studies in several religious universities in Indonesia, data were obtained through in-depth interviews, observations, and document analysis, which were then analyzed thematically. Research findings show that integrative approaches in educational curriculum and practice have brought significant changes, especially in improving students' analytical abilities and strengthening their understanding of the relationship between religion and science. This study concludes that the integration of religion and science not only enriches the student learning experience but also becomes a pillar of a new intellectual culture that is relevant to the demands of the modernization and globalization era. These results recommend strengthening the synergy between religion and science through curriculum innovation, increasing lecturer competence, and cross-disciplinary collaboration to support holistic learning and prepare students to face global challenges with a multidimensional perspective.

Keywords: Integration of religion and science; New intellectual culture; Religious universities in Indonesia; Holistic learning

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PTSD Profile Analysis in High School Students: Identification of Trauma Barriers and Symptoms

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Abstract

Adolescence is a critical phase in individual development, where untreated trauma can have a significant impact on psychological well-being. This study aims to explore the symptoms of Post-Traumatic Stress Disorder (PTSD) in grade XI students and identify the implications of these symptoms on their psychological well-being. With the increasing cases of trauma among adolescents, this study is important to understand more deeply how trauma affects students in the context of education. The research method used involved the analysis of PTSD instruments and the Diagnostic Criteria Model (DCM) in 34 grade XI Science students at SMA Pasundan 2 Bandung. The PTSD instrument was used to identify the types of trauma barriers experienced by students, while the DCM analyzed the emotional, mental, physical, behavioral, and spiritual aspects that were affected. The results showed that the most dominant type of trauma barrier was being haunted by the traumatic event (20%), followed by feelings of helplessness (18%) and negative thoughts (17%). In the DCM aspect, emotional symptoms were most commonly experienced by students (31%), followed by mental disorders (20%) and behavior (18%). These symptoms indicate a significant disruption in the psychological well-being of students, which impacts their ability to learn and interact socially effectively. Therefore, comprehensive treatment and appropriate interventions are needed to help students cope with the psychological impact of trauma and prevent the development of more serious problems.

Keywords: Post-Traumatic Stress Disorder, Adolescent, Profile

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The Principal's Strategy in Developing Religious Culture of High School Students

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Indonesia

Abstract

The principal's responsibility is to realize educational goals that not only provide general knowledge, but also emphasize religious knowledge through the cultivation of religious values and the development of a religious culture. For this reason, principals need to have the right strategy in developing a religious culture in school. This study aims to describe the principal's strategy in developing students' religious culture in senior high school in Indonesia, as well as the supporting and inhibiting factors. This research uses a qualitative approach with descriptive methods. Data collection techniques were conducted through interviews with principals, teachers, and students, observation, and analysis of related documents. The results showed that the principal implemented several strategies, including habituation, exemplary/role modeling, and partnership, in developing a religious culture. Supporting factors include students' enthusiasm, parents' support, and support from the school. In contrast, inhibiting factors include inadequate facilities and the influence of students' socialization outside school. The benefits of this research are to provide insights for school principals in formulating effective strategies to develop a religious culture in schools, as well as providing an overview of the challenges and opportunities in its implementation. This research is expected to be a reference in education policy to improve the quality of faith-based education in schools.

Keywords: Strategy, Principal, Religious Culture, Students

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Unpacking the Role of Leadership and Entrepreneurial Skills: Mediation Moderation Enhancing the Firm Innovativeness

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New managerial skills are necessary for the development of innovative and effective business models, but the literature currently in publication does not empirically comprehend managerial skills as precursors to strategy transformation and firm innovative performance. This essay makes the case that management human capital, which is made up of leadership and entrepreneurial abilities, is a crucial enabler of novel and efficient BMI and the ensuing creative performance of the company. It does this by drawing on the dynamic managerial capacities hypothesis. Additionally, the research model suggests that the relationship between human capital and novel and effective BMI is favourably moderated by managerial cognition. The study's findings, which were derived from a sample of 312 IT and technology-related SMEs in the Thailand, offer fresh perspectives on the value of managerial skills in a digital economy. This study contributes to management literature by showing that the advantages of managers' human capital for novel and efficient BMI depend on its form: leadership skills have no effect on firm innovative performance, either directly or indirectly through novel and efficient BMI, whereas entrepreneurial skills which is essential for firm innovative performance. Overall, this study confirms the importance of managers' performance advantages and their dynamic capacities for strategic change made possible by novel and efficient BMI, but it also shows that the effect mechanisms are different from those observed in non-digital research contexts.

Keywords: Managerial Human Capital, Leadership Skills, Entrepreneurial Skills, Managerial Cognition

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Developing and Applying Financial Information System to Enhance the Development and Management for Supporting Service Business and Activities of Piyamit 1 Tunnel Community

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^{5,6} Freelance Researcher, Thailand

Abstract

The project of developing and applying the financial information system for enhancing the development and management to support the service business and activity of the Piyamit 1 Tunnel Community aims to transfer the financial information system for the development and management enhancement for supporting the service business and activities of the community. The study used Mixed Methods Research by using Participatory Action Research (PAR). The Purposive Sampling was for selecting the key informants from the representatives of government sectors, private sectors, community leaders, and community representatives, together with the depth-interview of the Piyamit 1 Tunnel community, Betong District, Yala Province. The statistic used for data analysis included Mean (\bar{x}), Standard Deviation (S.D), including Content Analysis. For the development and application of the financial information system to enhance the development and management for supporting service business and activities of Piyamit 1 Tunnel Community indicated that the 1 st Aspect: the development of community management to promote the community to have a better life and income was the transparent system and investigable. The 2nd Aspect: the efficiency measure for managing the financial performance system found that the community needed to organize the financial system through the information system. The 3rd Aspect: the effectiveness for problems and obstacles management in the group's performance of the financial system: when having a meeting, investigating, and improving the performance toward the accounting entry at the current time: there were still errors because the personnel lacked the cognitive on systematic accounting management.

Keywords: financial information system, Piyamit 1 Tunnel

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Women and Nature: Analysing Kaine Agary's Yellow Yellow (2006). Through the Lens of Ecofeminism

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Abstract

Over the years, many environmentalist and scientific scholars have established the connections between women and nature due to the feminine features of caring, nurturing and reproducing they share in common. Considering the rapid growth of ecological damages in the African societies, ranging from: deforestation, erosion, flood, black sooths, acid rain, pipeline explosion, air pollution etc. An eco feminist point of view is imperative in exploring the conditions of women and nature in Kaine Agary's Yellow Yellow (2006). Kaine Agary is a Nigerian woman born in USA who later relocated back to Nigeria where she grew up in Port Harcourt - Rivers State. Her book explored the terrible experiences of the African woman in her environment owing to the invasion of foreign expatriates into the African communities and the environmental damages caused by these expatriates' invasion which affected the female characters in the text in their various decisions of life. This study explores the characterization of the female characters in the text through the lens of ecofeminism by analysing women connection with nature, their transformation and the effect of environmental degradation on the women. Using the concept of ecofeminism by Vandana Shiva in a book she co-authored Ecofeminism Maria Mies and Vandana Shiva with a forward by Ariel Salleh 2nd Edition published 2014, this study examines the socio-economic conditions of women in the novel and how their lives are affected by the degradation of the environment on which their source of livelihood solely depends on.

Keywords: Women, Nature, Ecofeminism

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Income Capital and Resilience among Urban Poor Communities in Malaysia

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Abstract

Poverty has continued to be a long-lasting problem in the developing world. Vicious cycles of socio-economic crises have severely affected millions of households across the world. The impact of COVID-19 is the hardest among poor households, especially women, youth, and, informal workers, especially those who live in urban areas. One of the strategies to overcome poverty is to build resilience for the poor; in line with Sustainable Development Goals (SDGs) target to alleviate poverty through resilience model. However, empirical studies on community resilience that investigate the impacts of income capital towards poverty are still limited in Malaysia. Urban poverty has become visible, especially in major cities in Malaysia such as Kuala Lumpur, Penang and Johor Bahru. The increasing costs of the necessary living expenses, as well as the property rentals and property prices, are beyond the poor one's affordability. Hence, this paper aims to explore the influence of income capital on urban resilience in poor communities in Kuala Lumpur, Malaysia. A structured questionnaire was conducted in Kuala Lumpur to 400 respondents from urban poor communities. Data were analysed using descriptive analysis, analysis of variance (ANOVA), and correlation analysis. The findings showed that income capital is positively significant in community resilience building through having good employment and a stable income source. Based on these findings and the background of the urban poor communities, this study has proven that the urban poor communities are trapped in the vicious circle of poverty. To overcome poverty, the government should come out with relevant policies and strategies in upgrading the urban poor income to build resilience among urban poor communities in Kuala Lumpur, Malaysia.

Keywords: Urban Poor, Resilience, Income Capital

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Multidisciplinary Innovative Teaching Technique By Combining Virtual Reality With Co-Construction Learning Method

Jeanne Lee

Ming Chuan University, ROC

Abstract

In response to the rapid changes of the technology and the turning point under the crisis of the pandemic, the industry has created a new operation mode of using virtual reality technology for long-distance cooperation. In view of the fact that the current architectural education has not kept up with the speed of technological progress, academic have to start to integrate new media design methods in education. With the rapid update and development of auxiliary tools in the digital era, more smart tools and digital platforms have emerged; when the digital tools for architectural teaching are no longer limited to existing digital tools such as AutoCAD, Rhino, Grasshopper, etc., but expands to the new generation of more intelligent platforms, such as building information modelling (BIM) software, virtual reality (VR)... and other cross-field technologies or tools. Architectural education should also be adjusted in terms of Design Process and Design Thinking. Under the future design development of virtual and real co-construction, it is necessary to be able to flexibly apply digital tools such as virtual reality or other AI interactive technologies. By combining the application of rural real construction and virtual reality software, this thesis will discuss how to introduce the practice of cross-field innovative teaching of architectural education through the practical application of real construction and the co-construction of virtual reality (VR), combining smart digital resources and actively promoting The cross-domain design thinking mode and the possibility of applying virtual reality (VR) for architectural design thinking enable students to have both theoretical and practical learning experience. The co-construction of real and virtual, the cross-domain education provides more diverse thinking directions and to strengthen the design thinking of digital nonlinearity in teaching.

Keywords: Design Process, Virtual Reality, Cross-Domain, Co-Construction

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TRACK B: COMPUTER, ENGINEERING, TECHNOLOGY & APPLIED SCIENCES



Transformative Approach To Energy Management And Production Through Integration Of Microgrids And Vpps, With Advanced Technologies

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Abstract

Microgrids and VPP (Virtual Power Plants) are both innovative DER (Distributed Energy Resources) that incorporates use of renewable energies and integrates them with different storage systems. Microgrid is an energy system, whereas VPP is a network of energy systems. Despite their advantages in giving rise to sustainability and efficiency, there are losses among electricity generated from sources in Microgrids and VPPs, often due to Microgrid's scalability issues, intermittency of renewables, and complex management system of VPPs. However, the characteristics of Microgrids and VPPs can compensate each other. For instance, VPPs can help microgrids in its limitation in scalability. Also, Microgrids can reduce VPP's dependency on the main grid, through its independence and functions like island mode. This unique compensation makes the integration of Microgrids and VPPs desirable, since this integration will boost resilience and scalability, expanding the range of usage. The investigation was conducted by creating a model via the national renewable energy laboratory's resources. Since this idea is original, adjustments were made to the existing renewable technologies and the model grid to align with the same conditions, energy productions, and greenhouse gas emissions that will be anticipated from the model. The model output graph displayed a match in demand and production, minimal involvement of the central grid, peak shaving, and peer-to-peer trading systems, directly manifesting that the involvement of AI and blockchain technology in the integration of microgrids and VPPs resulted in projected outcomes. Overall, this project aims to enable effective energy management, production, and storage through the following integration of technologies, boosting resilience and efficiency in those processes.

Keywords: Evacuation-route Navigation System, Non-linguistic Interface, Tsunami Disaster Area, Response Performance.

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Evaluation of a Prototype of the Air Conditioner Service Reminder System: A case of Indonesian MSMEs

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Abstract

Micro, Small, and Medium Enterprises (MSMEs) play an important role in Indonesia's national and regional economy. However, the scale of their employees, turnover, or assets is small. With Information Technology (IT) being inseparable with everyday life and business, MSMEs involved in Air Conditioner (AC) servicing and maintenance in Banjarmasin are now considering more the use of IT in the operations of their businesses. One of the IT tools introduced to these MSMEs by this study is the AC Service Reminder System prototype. Being a new system it requires testing and evaluation using its user response data. This study evaluates the testing of a prototype for the AC Service Reminder System for its ability to learn, efficiency, memorability, user satisfaction, and errors. The results of the initial test found three errors in the system. The second test found no system errors. However, it found that the user satisfaction aspect peaked at 74% but had some slight fluctuations, generally characteristic of users. This study's results can be useful reference material on testing and evaluation of IT systems developed for use in the services sector involved with repair, maintenance, and general service of similar systems.

Keywords: MSMEs, AC Service, Prototype, Usability

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TRACK C: MEDICAL, MEDICINE AND HEALTH SCIENCES



The Oral P. Gingivalis Removing By Oral Caring Method

Pei-Ju, Lin*

The Department of Commercial Design, National Taichung University of Science and Technology, Taiwan

Abstract

This study used the mesh manufactured nozzle in combination with a device that generates nanobubbles with medical pure oxygen to produce oxygenated bubbles. Oral cavity cleaning can reduce gingival injuries for the convenience of oral P. gingivalis removal. An experiment was performed on oral P. gingivalis removal using the design variables, which included the three segment rotor speed of the testing device and three types of stainless steel meshes (with different layers). Statistical analysis was performed on the number of bacterial colonies obtained and different combinations of variables. The results showed that oxygenated nano bubbles generated with the use of the high-density stainless steel mesh-manufactured nozzle could effectively remove oral anaerobes. Additionally, smaller nanobubbles resulted in better effects. The rotor speed variable was the primary factor that influenced flow velocity, DO, nanobubble diameter, and P. gingivalis removal effects. The overall hygienic results showed an effect of up to 96% bacteria removal, and some combinations had 100% hygienic effect.

Keywords: Oxygenated Nanobubbles, High-density Stainless Steel Mesh Nozzle, Porphyromonas

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Development of Digital Barcode Microbeads Based Multiplex Immunoassay for Determination of Severe Dengue

Tien-Chun Tsai^{1*}, Tzong-Shiann Ho², Ya-Lan Lin³

^{1,2,3} National Cheng Kung University, Taiwan

Abstract

Dengue is a mosquito-borne human viral disease to spread over the tropical and subtropical areas, resulting in global burden of medical cost due to its high prevalence and lower case fatality rate. The initial clinical symptoms of dengue are very similar to common flu illness at febrile stage; however, fatal hemorrhage or shock might occur in days after infection. Therefore, an unmet clinical need is to develop the specific dengue prognostic tests that is much important in clinical management for infected patients. This study proposes the dengue viral non-structural protein 1 (NS1) for rapid dengue screening and NS1-thrombin complex (NST) as a predictable index for dengue hemorrhagic fever (DHF) or dengue shock syndrome (DSS). This study also proposes that a simple multiplex immunoassay is able to realize by antibodies-immobilized digital barcode micro beads and single fluorescent reporter anchored secondary antibody. In the microscopic images, the distinguishment between different barcodes and the detection of fluorescent strength on the micro beads could be achieved to simultaneously detect NS1 and NST. Compared to the enzyme-linked immunosorbent assay (ELISA), lateral flow assay (LFA), and micro beads based flow cytometry, the barcode micro beads applied for the multiplex immunoassay is promising to simply quantify different biomarkers in small sample volumes. In the preliminary results, the reaction time was optimized that the fluorescent signal on the micro beads was significantly increased and almost stable at 2 h during exposure to 6.25 ng/mL of NS1. For detecting NS1, the calibration curve showed that the antibodies modified micro beads appear a linear detection range of 10–150 ng/mL ($R^2 = 0.9879$). Moreover, the anti-NS1 modified micro beads present an insignificant change of fluorescent signal under the addition of 50–200 ng/mL NST, which demonstrates a high specificity of this developed platform to detect NS1 antigen against the interference from NST.

Keywords: Multiplex immunoassay, Digital barcode micro beads, Severe dengue, Non structural protein 1 (NS1), NS1-thrombin complex (NST)

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Key Factor for Medical Device Translational Research: Based on NCKUSPARK Program

Yu-Pei Huang^{1*}, Chia-Jung Chang², Chih-Han Chang³

^{1,2,3} National Cheng Kung University, Taiwan

Abstract

This study aimed to identify the possible key factors for a successful medical device translation, from academic research, in the SPARK program of National Cheng Kung University (NCKU-SPARK). In total 90 teams, focusing on medical device translation, incubated in the NCKU-SPARK, from 2013 to 2020, were selected for this study. Based on the available data, logistic regression was applied to relate the success of translation with seven counselling factors for each team. The results show that the statistically significant factors to the success of translation involve clinical need definition and regulatory pathway planning as well as minor significant factors include team's entry status, market analysis and team dedicating. The patent protection and team members' background were identified as statistically insignificant factors.

Keywords: Medical device, Translational research, Innovation, Entrepreneurship, Logistic

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The Effect of Multicultural Role Play on Multicultural Perception and Empathy Ability of Nursing College Students

Miyoun Cha*

UIDUK University, Gyeongju, South Korea

Abstract

This study investigated the effect of multicultural perception and empathy ability on nursing students through multicultural role-playing. It is a quasi-experimental research on non-equivalent control group pre/post-test design. The subjects were nursing college students in one region who agreed to the experiment, and a total of 100 people, including 50 each in an intervention group and a control group, participated to measure multicultural perception and empathy questionnaires before and after role-playing activities. As a result, multicultural role-playing had a significant effect on the multicultural perception ($p=.004$) and empathy ($p=.000$) of nursing college students. Therefore, it is suggested that multicultural role-playing can be helpful in changing multicultural perceptions and empathy ability.

Keywords: Multicultural Perception, Empathy Ability, Nursing College, Multicultural Role Play

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FUTURE EVENTS

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**11th International Conference On
“Trends in Multidisciplinary Business & Economic
Research”
(TMBER-2025)**



Date: April 05-06,2025

Venue: Mercure Hotel Amsterdam City, Netherlands

Email: tmber@globalilluminators.org

Abstract Submission Date: March 16, 2025

Full Paper Submission Date: March 16, 2025

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

**11th International Conference On
“New Directions In Multidisciplinary Research &
Practice”
(NDMRP-2025)**



Date: June 07-08, 2025

Venue: Mercure London Hyde Park Hotel, London

Email: etar@globalilluminators.org

Abstract Submission Date: May 18, 2025

Full Paper Submission Date: May 18, 2025

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

**12th International Conference On “Global Trends In
Academic Research”
(GTAR-2025)**



Date: June 28-29, 2025

Venue: Novotel Barcelona Sant Joan Despi, Spain

Email: icmrp@globalilluminators.org

Abstract Submission Date: June 08, 2025

Full Paper Submission Date: June 08, 2025

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



Charities

Environment

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”

**9TH INTERNATIONAL CONFERENCE ON
“GLOBAL ISSUES IN MULTIDISCIPLINARY
ACADEMIC RESEARCH”
(GIMAR-2025)**

Head Office (Malaysia)
125, Jalan Jinjang Setia 5,
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