

BOOK OF CONFERENCE PROCEEDINGS

# GIMAR

FEBRUARY 18-19, 2023

8TH INTERNATIONAL CONFERENCE ON  
"GLOBAL ISSUES IN MULTIDISCIPLINARY  
ACADEMIC RESEARCH"  
(GIMAR-2023)

Tokyo, Japan

Organized by:



GLOBAL  
ILLUMINATORS

8th International Conference On  
“Global Issues In Multidisciplinary Academic Research”  
(GIMAR-February 18-19, 2023; GIMAR© 2023Tokyo, Japan)  
Global Illuminators, Kuala Lumpur, Malaysia.



# **GIMAR- 2023**

## **Conference Proceeding**

### **Book of Abstracts**

**8th International Conference On**  
**“Global Issues In Multidisciplinary Academic Research”**  
**(GIMAR-2023)**

**Venue: Hotel Mystays Ochanomizu Conference Center Tokyo,**  
**Japan**

**Editor:**

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Country Director (Global Illuminators Iraq)

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## **Conference Chair Message**

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



8th International Conference On “Global Issues In Multidisciplinary Academic Research” (GIMAR-2023) 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 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
45	22	2	21	46.6%

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

### **Business, Management, Economic**

Dr. Sedigheh Moghavvemi (Associate Professor)

### **Engineering & Technology Studies**

Jing-Fa Tsai (Professor)

## **GIMAR-2023 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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**Dr. Ahmad Saddam (Ph.D.)**

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## CONFERENCE PROGRAM

**DAY 01 Saturday (February 18, 2023)**

**Venue: Hotel Mystays Ochanomizu Conference Center Tokyo, Japan**

8:00 am – 09:00 am	Welcome Reception & Registration
09:00 am – 09:15 am	Opening Speech – <b>Professor J. Dalle (Ph.D.)</b> Coordinator, Global Illuminators
09:15 am – 09:40 am	Introduction of Participants
09:40 am- 10:00 am	Speech <b>Dr. Farooq Ahmed Jam (Ph.D.)</b> Conference Chair, Executive Director Global Illuminators Malaysia
10:00 am – 10:15 am	Group Photo & Award Ceremony

**Grand Networking Session and Tea Break (10:15 am – 10:30 am)**

**DAY 01 Saturday (February 18, 2023)**  
**Session 1 (10:30 am – 11:00 am) Key Note Speeches**

<b>Dr. Muhammad Faizal Bin A. Ghani</b>	Associate Professor	University of Malaya, Malaysia.
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**DAY 01 Saturday (February 18, 2023)**

**Session II (11:00 am – 01:30 pm)**

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

<b>GIMAR-23-102</b>	A 2022 Survey on Conflict and Reconciliation of the People in Thailand	Teera Sindecharak
<b>GIMAR-23-104</b>	Developing and Upgrading the Lingzhi Local Herb as the Commercial Products	Nantharat Namburi
<b>GIMAR-23-105</b>	Developing Pandan-Woven-Products’ Production System of Farmer Housewife Group Community Enterprise, Yala Province, Thailand	Chompunuch SripHong
<b>GIMAR-23-106</b>	Guidelines for Managing Occupational Groups according to the Sufficiency Economy Philosophy for Sustainability in Thailand	Maneenin, Piyada.
<b>GIMAR-23-107</b>	Developing and Transferring Cognitive of Online Distribution Channels to the Community Enterprise Group, Naket Sub-district, Khok Pho District, Pattani Province	Khaosang, Watchara
<b>GIMAR-23-108</b>	Tourism Communication by Community for Promoting the Sustainable Tourism of Chulabhorn Pattana 9 Community, Yala Province.	Siriwan Jianchatchawanwong
<b>GIMAR-23-109</b>	Assessment of the potential of homestay management in Betong District, Yala Province according to the attitudes of tourists	Phongkraphan, Nattharawee
<b>EGER-FEB23-103A</b>	The Governance Challenges of Balochistan: (A Practitioner Perspective)	Abdul Aziz

**Lunch Break (01:30 pm – 02:00 pm)**

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**DAY 01 Saturday (February 18, 2023)**

**Session III (02:00 pm – 03:00 pm)**

**Track B: Health and Medicine Studies**

<b>GIMAR-23-111</b>	The Oral P. Gingivalis Removing By Oral Caring Method	Pei-Ju, Lin
<b>GIMAR-23-114</b>	Development of Digital Barcode Microbeads Based Multiplex Immunoassay for Determination of Severe Dengue	Tien-Chun Tsai
<b>GIMAR-23-116</b>	The Effect of Multicultural Role Play on Multicultural Perception and Empathy Ability of Nursing College Students	Miyoun Cha
<b>GIMAR-23-113</b>	Key Factor for Medical Device Translational Research: Based on NCKUSPARK Program	Yu-Pei Huang

**Session IV (03:00 pm – 04:00 pm)**

**Track C: Engineering, Technology, Computer and Applied Sciences**

<b>GIMAR-23-121</b>	Non-linguistic Evacuation-route Navigation System in Tsunami Disaster Areas	Shinya Abe
<b>GIMAR-23-128</b>	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**

<b>GIMAR-23-117</b>	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
<b>GIMAR-23-120</b>	Women And Nature: Analysing Kaine Agary's Yellow Yellow (2006). Through The Lens Of Ecofeminism.	Ikechi Chioma Elizabeth
<b>EGER-FEB23-102</b>	Income Capital And Resilience Among Urban Poor Communities In Malaysia	Nor Fatimah Che Sulaiman
<b>GIMAR-23-126</b>	Multidisciplinary Innovative Teaching Technique By Combining Virtual Reality With Co-Construction Learning Method	Jeanne Lee

### 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.	<b>GIMAR-23-118A</b>	Hama Susan	Yala Rajabhat University, Thailand
2.	<b>GIMAR-23-115A</b>	Nasueree Tehkasae	Yala Rajabhat University, Thailand
3.	<b>GIMAR-23-109A</b>	Nakruang, Dussadee	Yala Rajabhat University, Thailand
4.	<b>TOK-3223-101M</b>	Yu-Kai Su	Pomona Valley Medical Center, USA
5.	<b>GIMAR-23-106A</b>	Pinichchan, Ganyarat	Yala Rajabhat University, Thailand
6.	<b>GIMAR-23-104A</b>	Kwanrutai Saelim	Yala Rajabhat University, Thailand

## **DAY 02**

**Sunday, (February 19, 2023)**  
**“CITY TOUR”**

**All respected guests will join for a free sightseeing tour organised by GIMAR-2023 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**



## A 2022 Survey on Conflict and Reconciliation of the People in Thailand

**Teera Sindecharak<sup>1\*</sup>, Ekasit Nunbhakdi<sup>2</sup>**

Faculty of Sociology and Anthropology, Thammasat University,  
Thailand

### Abstract

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The political conflict in Thailand is a long-standing problem even every sector has tried to solve this problem via many processes but this problem is still there. Among conflict, it is reflected no one right and also no one wrong. The way is a starting point that must do right now is to construct the social perception in Thailand for all stakeholder group. Just let them have a space, time and chance to speak and participate for solving this problem together. This research paper aims to propose a way to construct the social perception for the unity of Thai people by the research methods from focus groups, in-depth interview, opinion survey and expert suggestions. The study brings several key insights for policy and research with future agenda.

**Keywords:** Social Perception, Unity, Political Conflict

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\*All correspondence related to this article should be directed to Ekasit Nunbhakdi, Faculty of Sociology and Anthropology, Thammasat University, Thailand



## Developing and Upgrading the Lingzhi Local Herb as the Commercial Products

**Nantharat Namburi<sup>\*1</sup>, Kwanrutai Saelim<sup>2</sup>, Sirichai Namburi<sup>3</sup>,  
Amart Sulong<sup>4</sup>, Sukrita Raksudjarit<sup>5</sup>, Chanthana  
Susawaengsup<sup>6</sup>, Shinnawatra Junchairussamee<sup>7</sup>**  
<sup>1,2,3,4,5</sup>Yala Rajabhat University, Thailand

<sup>6</sup> Maejo Universtiy. Maejo University Phrae Campus,

<sup>7</sup> Freelance Researcher. Chiang Mai Province, Thailand

Abstract

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This article aims to develop the Lingzhi local herb as the commercial product for Piyamit 1 Tunnel Community, under the brand "PIYAMIT TUNNEL KHRIRI 1987". The research result of extraction for Lingzhi local herb product revealed that the Dual Extraction method gave the most quantity. The contamination of the heavy metal and microbes in the Lingzhi extraction by the Dual Extraction found the concordance with the standardized criteria according to the Ministry of Public Health announcement. Hence, The Lingzhi extraction can use as an ingredient in supplementary products. Furthermore, it has other mixtures of extractions which have the main effect of stimulating immunity, which includes Ginseng Root Extract (Korea), Kaoki Extract (Goji Berry), Tang Chao Extract, Beta-Glucan, and Citrus Bioflavonoids Extract. The packaging design was in a round bottle shape with a screw cap and light brown. The food and drugs registration number is 6544854.

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***Keywords:*** Lingzhi Local Herb, Commercial Product.

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\*All correspondence related to this article should be directed to Nantharat Namburi,  
Yala Rajabhat University, Thailand





## Developing Pandan-Woven-Products' Production System of Farmer Housewife Group Community Enterprise, Yala Province, Thailand

**Chompunuch Sriphong<sup>1\*</sup>, Absorn E-sor<sup>2</sup>, Usanee Promsriya<sup>3</sup>,  
Jiraporn Kiadtnaruemol<sup>4</sup>**

<sup>1,2,3,4</sup> Yala Rajabhat University. Thailand

### Abstract

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The production system helps operators to see the overall operation in production. This present work aims to 1) study the production system 2) develop the pandan-woven-products' production system of farmer housewives group community enterprise, Yala province, Thailand. The techniques used to collect the data were group interviews, focus group discussions, and participation development operations with 5 members of the enterprise. Content analysis was used to analyze the data. The results revealed that the pandan-woven-products' production system of this group is composed of 1) input which includes human resources, physical resources, and financial resources, 2) the production process is divided into 2 steps including preparing the pandan threads and weaving, and 3) output which is the weaving pandan products. The development of the woven production system was follow the guidelines that aim to solve problems in the production system, such as reducing the production time, production cost reduction, and product quality control to meet standards. The development can solve such problems and make the production system more efficient.

**Keywords:** Production System, Pandan Products, Community Enterprise, Thailand

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\*All correspondence related to this article should be directed to Chompunuch Sriphong, Yala Rajabhat University, Thailand



## Guidelines for Managing Occupational Groups according to the Sufficiency Economy Philosophy for Sustainability in Thailand

**Maneenin, Piyada\*<sup>1</sup>, Pinichchan, Ganyarat<sup>2</sup>, Kamphaengdi,  
Satsadi<sup>3</sup>, Maneenin, Thanon<sup>4</sup>**  
1,2, 3,4 Yala Rajabhat University, Thailand

### Abstract

The research objective is to study the guidelines for managing occupational groups according to the sufficiency economy philosophy for sustainability. The sample group is three occupational groups in Yala province, which include the Old City Tie-Die Group (the elderly in Ban Ta Sap), the Coconut Shell Group of Ban Ta Sap, and the Clothes Sewing Group (the elderly of Ban Ta Pae), using the In-depth interview. The research result reveals as follows: Production Management Aspect: the groups emphasize the reasonableness principle and strong immunity, focusing on the production process concordant with the production plan and selling plan. For Financial and Accounting Management Aspect: the groups rely on sufficiency, without creating debts and expanding the business according to the group's financial status, controlling the expenses as the principle of finance and accounting. Human Resources Management Aspect: the groups uphold the principle of knowledge, along with morality, by getting training from external organizations to develop competences and perceptions consistently, having honesty with one another. Marketing Management Aspect: the groups uphold the reasonability principle and knowledge condition, by using knowledge to reduce the marketing costs and create business networks. Occupational Management Aspect: the groups emphasize organizing the right people to the right work, dividing tasks, and determining the tasks clearly.

**Keywords:** Management, Occupational Groups, Sufficiency Economy Philosophy.

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\*All correspondence related to this article should be directed to Maneenin, Piyada, Yala Rajabhat University, Thailand



## Developing and Transferring Cognitive of Online Distribution Channels to the Community Enterprise Group, Naket Sub-district, Khok Pho District, Pattani Province

Khaosang, Watchara\*  
Yala Rajabhat University, Thailand  
Abstract

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For the research entitled developing and transferring the cognitive of online distribution channels to the community enterprise group, Naket Sub-district, Khok Pho District, Pattani Province, the result indicated that the group management of the community enterprise, Naket Sub-district, Khok Pho District, Pattani Province, in terms of the potential aspect: it had the production potential and qualitative products which met the reliable standard, including the systematic organization management. It could develop the potential for product distribution to various channels. However, it still did not perceive the online use. For the business environment aspect: the social and economic factors were essential to the group's performance in developing the online distribution channels. The researcher gave knowledge and the process of marketing online use through the marketing communication of the group's products to get the members to understand the development process and transfer the cognitive of the online distribution channels to the community enterprise group, Naket Sub-district, Khok Pho District, Pattani Province. Such cognitive could increase the future circulation of the group members so that they can generate sustainability further.

***Keywords:*** Management, Distribution Channel, Community Enterprise

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\*All correspondence related to this article should be directed to Khaosang, Watchara  
Yala Rajabhat University, Thailand



## Tourism Communication by Community for Promoting the Sustainable Tourism of Chulabhorn Pattana 9 Community, Yala Province

**Siriwan Jianchatchawanwong<sup>1\*</sup>, Nantharat Namburi<sup>2</sup>, Sukrita  
Raksudjarit<sup>3</sup>, Thiennaphat Muengluang<sup>4</sup>, Nuanlaong, Piyata<sup>5</sup>**  
<sup>1,2,3,4,5</sup> Yala Rajabhat University, Thailand  
Abstract

This research aims at studying the tourism communication by the community to promote sustainable tourism in Chulabhorn Pattana 9 community, Yala Province. The study covers 1) the context and environment of Chulabhorn Pattana 9 community, Tan To District, Yala Province, 2) the communication process of the Chulabhorn Pattana 9 community, Tan To District, Yala Province, and 3) guidelines to develop the tourism communication by the community for promoting the sustainable tourism. The form of research was qualitative research. It used the concept of cultural communication, community communication, conservative tourism, and SWOT analysis as a research framework. The key informants included ten tourism leaders group using purposive sampling. The instruments used in this research were the in-depth interview, focus group discussion, and observation. The data analysis was descriptive analysis type. The research result revealed as follows: 1) the Chulabhorn Pattana 9 community was the community organized by the Thai government for The Communist Party of Malaya (CPM) or Developing Partner of Thailand to live and have workplaces. The place developed as a tourism village. They were in charge of the Chulabhorn Research Institute 2) A communication process used was community communication and participative communication among the members to exchange knowledge such as thinking, planning, determining policies, operating, and allocating the benefits for the community members. And 3) the guidelines of tourism communication development by the community is the participative communication, public relations, the building of community base strength, having competent leaders, and continuity of performance in both internal and external communities to promote sustainable tourism.

**Keywords:** Communication, Community Tourism, Sustainable Tourism

\*All correspondence related to this article should be directed to Siriwan Jianchatchawanwong, Yala Rajabhat University, Thailand



## Assessment of the Potential of Homestay Management in Betong District, Yala Province According to the Attitudes of Tourists

**Phongkraphan, Nattharawee<sup>1\*</sup>, Lekhawichit, Nutnapha<sup>2</sup>,  
Namburi, Nantharat<sup>3</sup>, Nakruang, Dussadee<sup>4</sup>, Raksudjarit,  
Sukrita<sup>5</sup>, Namburi, Sirichai<sup>6</sup>**

<sup>1,2,3,4,5,6</sup> Yala Rajabhat University. Thailand Abstract

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The purpose of this research is to assess the potential of homestay management in Betong district, Yala province, according to the tourists' attitudes. The samples are 400 tourists visiting the locality and homestay in Betong district, Yala province. The instrument used in the study was a questionnaire, and the data analysis used was Frequency, Percentage, and Mean. The research result revealed that the residence aspect was suitable and the quality was at a low level, the food aspect was suitable and the quality was at a low level, the safety aspect was suitable and the quality was at the most level, the hospitality of the host and family members aspect was suitable and the quality was at a low level, the package tour aspect was suitable and the quality was at the most level, the natural sources and environments aspect was suitable and the quality was at a low level, the culture was suitable and the quality was at the most level, the worth and value creation of the community products aspect was suitable and the quality was at much level, the management of the homestays group was suitable and the quality was at the most level, the public relations was suitable and the quality was at the most level. Regarding the potential of homestay management expressed that the tourists had opinions about the assessment of the potential of homestay management in the community of Betong district, Yala province a moderate level.

***Keywords:*** Assessment of the Potential, Homestay Management, Attitudes

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\*All correspondence related to this article should be directed Phongkraphan, Nattharawee, Yala Rajabhat University, Thailand



## 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<sup>1\*</sup>, Namburi Nantharat<sup>2</sup>, Hama Susan<sup>3</sup>,  
Namburi Sirichai<sup>4</sup>, Waranantakul Warawut<sup>5</sup>, Junchairussamee  
Shinnawatra<sup>6</sup>**

<sup>1,2,3,4</sup> Yala Rajabhat University, Thailand

<sup>5,6</sup> Freelance Researcher, Thailand

Abstract

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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.

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**Keywords:** financial information system, Piyamit 1 Tunnel

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\*All correspondence related to this article should be directed to Raksudjarit Sukrita, Yala Rajabhat University, Thailand



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

**Ikechi Chioma Elizabeth\***

Universiti Putra Malaysia

Abstract

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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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\*All correspondence related to this article should be directed to Ikechi Chioma Elizabeth, Universiti Putra Malaysia



## Income Capital and Resilience among Urban Poor Communities in Malaysia

**Nor Fatimah Che Sulaiman<sup>1\*</sup>, Suriyani Muhamad<sup>2</sup>, Mohd Azlan Shah Zaidi<sup>3</sup>, Nazli Aziz<sup>4</sup>, Mohd Nasir Nawawi<sup>5</sup>**

Universiti Malaysia Terengganu, Kuala Terengganu, Terengganu, Malaysia

### 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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\*All correspondence related to this article should be directed to Nor Fatimah Che Sulaiman, Universiti Malaysia Terengganu, Kuala Terengganu, Terengganu, Malaysia





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

**Jeanne Lee**

Ming Chuan University, ROC

Abstract

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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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\*All correspondence related to this article should be directed to Jeanne Lee  
Ming Chuan University, ROC



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## **TRACK B: COMPUTER, ENGINEERING, TECHNOLOGY & APPLIED SCIENCES**



## Non-linguistic Evacuation-route Navigation System in Tsunami Disaster Areas

**Shinya Abe<sup>1\*</sup>, Kayoko Yamamoto<sup>2</sup>**

<sup>1</sup>Tokyo Metropolitan Industrial Technology Research Institute, <sup>2</sup>The  
University of Electro-Communications, Japan

### Abstract

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Japan is a country prone to natural disasters such as earthquakes and typhoons. Japan has also seen a recent increase in the number of inbound foreign tourists, so it is increasingly important to communicate information to foreigners in the event of a disaster. However, language barriers remain an issue in disaster-time communications. Although there are existing multilingual systems for disaster-time communications, it is difficult to accommodate a large number of languages. Therefore, we developed a system that communicates evacuation routes and provides evacuation guidance without the use of language. The system is characterized by its ability to communicate evacuation routes through the use of only non-linguistic information, including geographic information, pictograms, and Arabic numerals. In this study, we conducted demonstration tests in tsunami disaster areas and demonstrated that the system can provide prompt evacuation guidance.

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

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\*All correspondence related to this article should be directed to Shinya Abe., Tokyo Metropolitan Industrial Technology Research Institute, Japan



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

**Juhriyansyah Dalle\***

Department of Information Technology, Universitas Lambung Mangkurat, Jl. H. Hasan Basry, Banjarmasin, South Kalimantan 70123, Indonesia.

Abstract

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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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\*All correspondence related to this article should be directed to Juhriyansyah Dalle  
Department of Information Technology, Universitas Lambung Mangkurat, Jl. H. Hasan Basry,  
Banjarmasin, South Kalimantan 70123, Indonesia



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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

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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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\*All correspondence related to this article should be directed to Pei-Ju, Lin, The Department of Commercial Design, National Taichung University of Science and Technology, Taiwan



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

Tien-Chun Tsai<sup>1\*</sup>, Tzong-Shiann Ho<sup>2</sup>, Ya-Lan Lin<sup>3</sup>

<sup>1,2,3</sup> National Cheng Kung University, Taiwan

Abstract

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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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\*All correspondence related to this article should be directed to Tien-Chun Tsai, National Cheng Kung University, Taiwan



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

**Yu-Pei Huang<sup>1\*</sup>, Chia-Jung Chang<sup>2</sup>, Chih-Han Chang<sup>3</sup>**

<sup>1,2,3</sup> National Cheng Kung University, Taiwan

Abstract

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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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\*All correspondence related to this article should be directed to Chih-Han Chang, National Cheng Kung University, Taiwan





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

**Miyoun Cha\***

UIDUK University, Gyeongju, South Korea

### Abstract

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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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\*All correspondence related to this article should be directed to Miyoun Cha  
UIDUK University, Gyeongju, South Korea

## **FUTURE EVENTS**

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**9th International Conference On  
“Trends in Multidisciplinary Business & Economic  
Research”  
(TMBER-2023)**



**Date:** March 18-19, 2023

**Venue:** Mercure Hotel Amsterdam City, Netherlands

**Email:** [tmbler@globalilluminators.org](mailto:tmbler@globalilluminators.org)

**Abstract Submission Date:** March 03, 2023

**Full Paper Submission Date:** March 08, 2023

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

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- 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

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**9th International Conference On  
“New Directions In Multidisciplinary Research &  
Practice”  
(NDMRP-2023)**



**Date:** June 17-18, 2023

**Venue:** Mercure London Hyde Park Hotel, London

**Email:** ndmrp@globalilluminators.org

**Abstract Submission Date:** June 03, 2023

**Full Paper Submission Date:** June 08, 2023

**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](http://www.globalilluminators.org)

**10th International Conference On “Global Trends In  
Academic Research”  
(GTAR-2023)**



**Date:** June 24-25, 2023

**Venue:** Novotel Barcelona Sant Joan Despi, Spain

**Email:** gtar@globalilluminators.org

**Abstract Submission Date:** June 10, 2023

**Full Paper Submission Date:** June 14, 2023

**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](http://www.globalilluminators.org)

**8th International Conference on  
“Multidisciplinary Innovation for Sustainability And  
Growth” (MISG – 2023)**



**Date:** July 15-16, 2023

**Venue:** The Federal Kuala Lumpur Malaysia, Malaysia

**Email:** [misg@globalilluminators.org](mailto:misg@globalilluminators.org)

**Abstract Submission Date:** July 30, 2023

**Full Paper Submission Date:** July 05, 2023

**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](http://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"

**8TH INTERNATIONAL CONFERENCE ON  
"GLOBAL ISSUES IN MULTIDISCIPLINARY  
ACADEMIC RESEARCH"  
(GIMAR-2023)**

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