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ICMRP 2022

BOOK OF CONFERENCE PROCEEDINGS

**9TH INTERNATIONAL CONFERENCE ON
“INNOVATION CHALLENGES IN MULTIDISCIPLINARY
RESEARCH & PRACTICE” (ICMRP-2022)**

DECEMBER 10-11, 2022

SINGAPORE

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ICMRP 2022

Conference Proceeding

Book of Abstracts

**9th International Conference on
“Innovation Challenges in Multidisciplinary Research &
Practice” (ICMRP-2022)**

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Editor:

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Conference Chair Message

Farooq Ahmed Jam (Ph.D.)



9th International Conference “Innovation Challenges in Multidisciplinary Research & Practice” (ICMRP-2022) serves as a platform that aims at helping the scholarly community across nations to explore the critical role of multidisciplinary innovations for sustainability and growth of human societies. This conference provides opportunity to the academicians, practitioners, scientists, and scholars from across various disciplines to discuss avenues for interdisciplinary innovations and identify effective ways to address the regional and global challenges faced by our societies. The research ideas and studies that we received for this conference are very promising, unique, and impactful. I believe, these studies have the potential to address key challenges in various sub-domains of social sciences and applied sciences. The scholars attending this conference will certainly find it helpful in refining their own research ideas, finding solutions to basic/applied problems they face, and interacting with other renowned scholars for possible future collaborations.

I am really thankful to our honorable scientific and review committee for spending much of their time in reviewing the papers for this event, selecting the best paper awards, and

helping the participants in publishing their research in affiliated journals. Also, special thanks to all the session chairs from industry, academia, and policy-making institutions who volunteered their time and support to make this event a success.

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

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

Type of ICMRP Papers

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

Reviewing Criteria

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

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

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

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

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

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

Acceptance Rates

Full Research Papers				
Submitted Papers	Accepted Papers	Withdrawn	Unqualified papers	Acceptance Rate
32	20	2	10	62.5%

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Acknowledgment

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

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

DAY 01 Saturday (December 10, 2022)

Welcome Reception & Registration

9:00 am – 09:30 am

Opening Ceremony (09:30 am – 10:30 am)

Venue: Singapore

09:30 am – 09:40 am	Opening Speech Coordinator, Global Illuminators
09:40 am – 09:55 am	Keynote Speech- Prof. Dr. Tariq Iqbal Khan
09:55 am – 10:10 am	Group Photo & Award Ceremony

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

DAY 01 Saturday (December 12 12, 2022)

Session 1 (10:30 am – 01:00 pm)

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

ICMRP-22-107	Interdisciplinary Collaborative Learning with Modular Programming and Information Visualization of Urban Smart Spaces	Chung-Hsiang Wang
ICMRP-22-109	Interdisciplinary Learning of Low-Code Development Platform Programming with Dual Coding Theory——A Case Study of Agilepoint NX	Chung-Hsiang Wang
ICMRP-22-110	Transdisciplinary Learning Based on Problem Identification of Design Computational Thinking ——A Case Study of the Topic of Marine Debris	Chung-Hsiang Wang
ICMRP-22-119	EFL Teachers' Perceived Benefits and Challenges of Task-based Language Teaching (TBLT) Implementation in Improving Students' Speaking Skills in Indonesia	Novilda Saragih, Angela
ICMRP-22-111	WebQuest: A Teaching and Learning Tool with Virtual Field Trip for Hospitality and Tourism Students	Indrawati, Johara
ICMRP-22-122	Study on the Evaluation of Liquid Fertilizer from Agricultural Wastes	Chen, Lih-Fu
ICMRP-22-123	Minimum Wage Policy and Regional Productivity in Japan	Mawatari, Shigehiro
ICMRP-22-133	SHRM and Risk Management	Prof. Dr. Christopher Paul
ICMRP-22-135	Subsequent Stock Repurchases and Their Determinants	Prof. Dr. David K. Ding
ICMRP-22-141	Discussion on the professional function of the agent of creative design industry from the perspective of cultural capital:Take Taiwan's interior design industry as an example	Ho Yih sien

Lunch Break (01:00 pm – 02:00 pm)

DAY 02 Sunday, (December 13, 2022)

“CITY TOUR”

Important Note: This tour is organized by Global Illuminators. You may also bring your Siblings/Family/Friends but you have to register for them on registration desk.

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

Interdisciplinary Collaborative Learning with Modular Programming and Information Visualization of Urban Smart Spaces

Chung-Hsiang Wang^{1*}, Ko-Chiu Wu²

¹College of Design, National Taipei University of Technology,

²Department of Interaction Design, National Taipei University of
Technology

Abstract

The purpose of this research is for interdisciplinary students, with the theme of smart city space, how to conduct collaborative learning on thinking, identification, and strategies for programming and visualization issues, to develop an interactive smart interface between users and environmental data. We have set up an interdisciplinary course on "Interactive Smart Space Design", which combines the fields of interactive design, engineering, electrical machinery, and electronics, trying to introduce unmanned aerial vehicle simulation path, modular programming, and information visualization modules into the course to conduct programming and computational thinking learning, guiding students to conceive and design, and in-depth development of programs and development practices. Finally, through the work report and Expert assessment, analyze and evaluate the learning effect. The results show that the modular programming method is more suitable for students with low information ability, and the information visualization performs better in the later stage of the project, reflecting the actual staged division of labor in the industry. The interdisciplinary collaborative learning process can reflect and revise problem points in the process of thematic decision-making, but coordination and division of labor have an impact on team cooperation.

Keywords: Interdisciplinary Learning 、 Modular Programming 、 Information Visualization、 Collaborative Learning、 Smart City

*All correspondence related to this article should be directed to Chung-Hsiang Wang, College of Design, National Taipei University of Technology, Taipei, Taiwan

Interdisciplinary Learning of Low-Code Development Platform Programming with Dual Coding Theory——A Case Study of Agilepoint NX

Chung-Hsiang Wang^{1*}, Ko-Chiu Wu²

¹College of Design, National Taipei University of Technology,

²Department of Interaction Design, National Taipei University of
Technology

Abstract

This paper studies the interdisciplinary learning process of programming and computational thinking by design students trying to use a cloud-based low-code development platform with an information visualization interface. We researched and set up an 8-week "AgilePoint NX" programming course, which guided students with the introduction of computational thinking, and learned from dual coding theory. In the process of image process and low-code learning, we can carry out structured thinking and problem thinking, and complete project tasks practice. We comprehensively analyze and evaluate their learning effectiveness through classroom learning observation, student sampling brief interviews, and feedback. Finally, it is found that students from different backgrounds have different cognitive learning effects on interdisciplinary learning programs. Different factors on learning pain points lead to students' low learning of programming courses. The exploration of their learning process can be used as a reference interdisciplinary learning and low-code development platform programming.

Keywords: Interdisciplinary Learning, Computational Thinking, Low-Code Development Platform, Dual Coding Theory, Information Visualization

*All correspondence related to this article should be directed to Chung-Hsiang Wang, College of Design, National Taipei University of Technology, Taipei, Taiwan

Transdisciplinary Learning Based on Problem Identification of Design Computational Thinking ——A Case Study of the Topic of Marine Debris

Chung-Hsiang Wang^{1*}, Ko-Chiu Wu²

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Technology

Abstract

The purpose of this research is how students can identify marine debris problems and generate insights through the operational thinking learning process. We have set up a transdisciplinary learning course of "Design Computational Thinking", trying to introduce the knowledge of marine debris in the humanities and environmental sustainability into the course, combining design thinking and computational thinking processes, and guiding students to think about and evaluate problems in stages and complete thematic design. Finally, through the achievement report, Expert assessment, and semi-structured interviews with students, analyze and evaluate their learning effect. It was found that students were creative in the way to deal with marine debris problems. Computational thinking can have an impact on the design process. In the process of design decision-making, students can think and express hierarchically, and use core strategies to solve problems.

Keywords: Transdisciplinary Learning, Marine Debris, Design Thinking, Computational Thinking, Problem Identification

*All correspondence related to this article should be directed to Chung-Hsiang Wang, College of Design, National Taipei University of Technology, Taipei, Taiwan

EFL Teachers' Perceived Benefits and Challenges of Task-based Language Teaching (TBLT) Implementation in Improving Students' Speaking Skills in Indonesia

Novilda Angela Saragih^{1*}, Ashadi²
^{1,2} Yogyakarta State University, Indonesia

Abstract

The English language is important in this globalization era in which it becomes the most common means of communication. The ability to contribute to world communication would widen opportunities to gain and enrich knowledge, extend social life, interact with more people around the world, and give better career opportunities. However, despite having learned the language for years, many EFL learners are still unable to use the target language appropriately, especially in communication. It is caused by the lack of knowledge and courage to express their ideas in the target language. This study aimed at investigating EFL teachers' perceived benefits and challenges in developing students' speaking skills through the implementation of task-based language teaching (TBLT). The data were obtained by conducting an interview and disseminating a questionnaire. A total of eight English teachers from a school in North Sumatera were purposively chosen due to their experience in implementing TBLT in developing students' speaking skills. Qualitative analysis of this study revealed that teachers perceived TBLT implementation positively. Moreover, students were encouraged to practice more and be more fluent since the provided tasks required them to actively participate and use the target language. However, the challenges occurred regarding the limited practice time, teachers' creativity in designing the materials, and mixed ability of the students who come from a varied educational background and have different learning objectives.

Keywords: communicative competence, EFL teachers, speaking skill, task-based language teaching.

*All correspondence related to this article should be directed to Novilda Angela Saragih, Yogyakarta State University, Indonesia

WebQuest: A Teaching and Learning Tool with Virtual Field Trip for Hospitality and Tourism Students

Indrawati, Johara^{1*}, Ciptaningrum, Dyah, Setyowati²

^{1,2} Yogyakarta State University, Indonesia

Abstract

This study is aimed at developing English teaching and learning materials using virtual field trips for hospitality and tourism students. The teaching and learning tool used in this study is WebQuest. In the 21st century, teachers and the student began to use technology as a tool to support teaching and learning. Virtual field trips are appropriate activities in supporting the teaching and learning process of hospitality and tourism students. The material to be developed in this research is direction and location. Students will be invited to visit several historical places virtually and show the direction and location to get to that place. However, this study uses research and development (R&D) methods which have five stages including need analysis, material development, expert validation, and revision. A teacher and tenth-grade student of the hospitality and tourism department in one of vocational high school Yogyakarta, Indonesia participate in this study. The results of this study indicate that material development using virtual field trips through WebQuest is applicable, appropriate, and attractive enough to be used in teaching and learning. Thus, developing teaching and learning materials using virtual field trips through WebQuest can increase student knowledge about some historical places in the world.

Keywords: WebQuest, Teaching and Learning, Virtual Field Trip, Blended Learning, Vocational High School.

*All correspondence related to this article should be directed to Indrawati, Johara, Yogyakarta State University, Indonesia

Study on the Evaluation of Liquid Fertilizer from Agricultural Wastes

Chen, Lih-Fu^{1*}, Zheng, Jun-Zhong²
^{1,2} SHU-TE University Taiwan

Abstract

The purpose of this study was to build a liquid fertilizer process, general chemical, chemical and biological monitoring, and observe the trends of various processes with process time. Process monitoring includes: pH, temperature, oxidation-reduction potential (ORP), electrical conductivity (EC), number of bacteria and odor, etc. The characteristics of homemade liquid fertilizer are usually acidic and high salinity, and it must be diluted before use. In addition, the initial process of rapid degradation, the number of bacteria can reach more than 10⁹, after about 3 weeks will drop to about 10⁴, and the main components of odor by GC-MASS analysis are carbon dioxide and alcohols. In terms of liquid fertilizer quality control, the liquid fertilizer supernatant promotes the growth of crops more than the original liquid, and has obvious benefits for root system development. The application method or type can improve the quality of liquid fertilizer and reduce production costs.

Keywords: liquid fertilizer, agricultural wastes, microorganism, recycling.

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Minimum Wage Policy and Regional Productivity in Japan

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Abstract

Japan's total population and labor force population have been decreasing in recent years. It is anticipated that an economic power is weakened in Japan due to the decreasing population. To restore the Japan's economy, economic policy discussions have begun in the government about minimum wage. There are many researches about effects of minimum wage on economy and productivity in abroad, but there are only a few researches are conducted in Japan. This study examines influence of minimum wage on prefecture-level regional productivity using a stochastic frontier analysis (SFA).

Keywords: Minimum wage, Productivity, Stochastic frontier analysis, Regional Economy, Japan

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SHRM and Risk Management

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Abstract

Scope of study: The main focus of this project is the design of an HR risk management system. Problem statement: Risk management has become an established business function in theory and practice over the past decades (Renn, 1998). So it is not surprising that sophisticated models have been developed for the risk management of credit defaults, market movements and interest rate risks (Hull, 2019). In contrast, qualitative aspects of corporate risk management can be seen as a blind spot (Sillaber/Breu, 2015), both theoretically and empirically. Empirical studies and theoretical driven concepts of HR risk management systems are still missing in the literature. However, new legal regulations require that companies integrate qualitative considerations into their company-wide risk management (e.g. Basel III, KonTraG, TransPuG). Since Strategic Human Resource Management (SHRM) is a decisive factor for organisational effectiveness and success (Boxall/Purcell, 2003; Lee, 2008; Gmur/Schwerdt, 2008), corporate HR should be part of the company-wide risk management. SHRM is therefore faced with the challenge of defining what kind of risks with regard to the different types of HR strategy and HR instruments can emerge. Methodology: Based on the theoretical framework of the Resource based View (Wernerfelt, 1984) and the HRM approach (Tichy et al., 1981), the poster presentation explores how a HR risk management system could be theoretically designed, what risks are included and what implications for the future design of HR risk management systems could emerge. We give an first empirical insight (based on explorative interviews) how companies respond to this new challenge and how HR risks are included in their company-wide risk management systems. Results and Implications: This paper wants to close that gap and should be a starting point for an increasing international discussion on how to handle HR risks.

Keywords: HR Risk Management, Strategic Human Resource Management, Resource based View, case study.

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Subsequent Stock Repurchases and their Determinants

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²Auckland University of Technology, ³University of South Australia

Abstract

We document that the significant decline in open market share repurchase announcement returns is due to recent increases in the number of subsequent announcements. Although the announcement period returns of initial repurchase programs launched by repeat repurchasing firms is, on average, positive, their subsequent announcement returns have decreased. We attribute this finding to firms with negative past repurchase announcement returns. Our results are consistent with the notion that managers endowed with hubris drive the decreasing subsequent repurchase announcement returns.

Keywords: Open market share repurchase; hubris; cumulative announcement returns; endowed.

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Discussion on the professional function of the agent of creative design industry from the perspective of cultural capital:Take Taiwan\'s interior design industry as an example

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Yuan Ze University, ROC

Abstract

Since the UK developed the idea of "turning ideas into economic activities", the creative industries have become one of the major trends in the development of a new economy around the world. For the creative industries, without market support, the results of the creative can not be achieved in concrete, and ultimately can not produce economic value. Therefore, the creative industry needs the role of agent, play the bridge between consumers and the market, on the one hand to protect the creative spirit of the creator, on the other hand to shape the value of the work, enhance the influence of the creator. Based on the characteristics of the industry, this study summarizes the creative industries into four categories: culture and art, creative design, creative services and communication content, from the perspective of Pierre Bourdieu's capital culture l in 〈The Forms of Capital〉 . To explore the interior design industry in the creative design industry, and take Taiwan as the research object, through expert interviews and questionnaires, summarize the structure of 〈PRINCIPAL〉 as a reference for the cultivation of brokers in the future.

Keywords: capital culture, agent, creative industries, professional function.

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FUTURE EVENTS

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



Date: February 18-19, 2023

Venue: Hotel Mystays Ochanomizu Conference Center
Tokyo, Japan

Email: gimar@globalilluminators.org

Abstract Submission Date: February 03, 2023

Full Paper Submission Date: February 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

**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

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.

Conference Main Tracks

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- Health and Medicine 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.

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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:





9TH INTERNATIONAL CONFERENCE ON

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