



FOREWORD

I am very pleased to see that the Volume 26, Number 3 of IJCIM includes selected papers as proof of our ongoing commitment to serve the community of researchers. We will continue to collaborate to making our journal better. Please carefully look at guidelines about paper format at www.ijcim.th.org and send your papers on topics of current interest in computer sciences, Internet technologies and management for the upcoming issues to me (charmonman@gmail.com). I will get your paper reviewed by experts in your field. If the initial response is favorable, I will request you to submit your camera-ready final paper as soon as possible for publication in the next edition of IJCIM.

The first paper titled “Development of Borderline Personality Checks Using Chatbots in the Instant Messaging Application” is written by **Christine Wibhowo, Ridwan Sanjaya, Sofia Retnowati, and Nida Ul Hasanat from Indonesia**. This paper aimed to create a program with Information Technology to find out the existence of BP in individuals and help individuals learn to solve problems with PCs by testing validity and reliability through 247 people due to Individuals with borderline personality (BP) often show risky behaviours that endanger themselves and others, as well as individuals with BP are often difficult to treat because of their unstable attitude.

The second paper titled “Digital Refugees? How Students in Thailand and Australia Seek and Use Information Online” is written by **Yuwanuch Gulatee from Thailand and Babara Comebes from Australia**. This paper done to find out How people use technology affects the development of new technologies, and as new technology affects how people use it by comparing the interview findings of a much larger study conducted in a Thai university and an older dataset (2008) conducted across two Australian universities to determine whether the way young people use technology has changed during the last eight years.

The third paper titled “Spectrum Refarming in Thailand” is written by **Settapong Malisuwan and Wassana Kaewphanuekrungsi from Thailand**. This paper reviewed about Spectrum Refarming in Thailand, due to Spectrum is a limited resource, but it can be reusable depending on spectrum management strategies which based on efficiency, effectiveness, and plans for developing communication activities to support future spectrum consumption.

The fourth paper titled “A Causal Relationship Model in Supply Chain Collaboration of Logistics Business Performance Tourism Business in Thailand” is written by **Ladawan Sawangarom, Tharinee Maneesri, and Weerawit Lertthaitrakul from Thailand**. This paper studied the factors of Logistics Business Performance Tourism Business in Thailand in order to develop model of logistic business performance for tourism by using statistical analysis description to analyze One-way multivariate variance and to check the validity of the patterns by SEM (Structural equation modeling) with 400 establishments.

The fifth paper titled “Ranking of University Websites Based on Search Engine Optimization” is written by **Kittisak Chotiktipat, Prachyanun Nilsook, and Sunantha Sodsee from Thailand**. This paper showed the ranking of university websites according to the principles of SEO, which is considered important in increasing the number of visitors which could be applied to a way to rank the business website through search engines which is an important tool of digital marketing. And this paper therefore done to developed a system to guide the website development base on SEO by testing with samples of Rajamangala University of Technology.

The sixth paper titled “A Guideline for Developing an Enrichment Curriculum on Social Skills for the Undergraduate Students in Faculty of Management Science” is written by **Pisit Chumnanna, Paitoon Pimdee, and Phadungchai Pupat from Thailand**. This paper proposed to examine the guideline to develop and enrich social skills for the undergraduate students in Faculty of Management Science according to the specialists’ suggestions, by collecting data from 7 lecturers from Faculty of Industrial Education and Faculty of Education through semi-structured interview regarding the approach for social skill development and enrichment, and analyzed by inductive analyzation method.

The seventh paper titled “The Development of Energy Storage Bag Prototype for Securities, Disaster, and in Remote Areas” is written by **Prakart Pawa Thongsawang and Prasopchai Pasunon from Thailand**. This paper done to study the development of energy storage bag prototype for securities, disaster, and in remote areas; and to compare the differences between expectations and satisfaction from samples by conducting through soldiers.

The eighth paper titled “Cultural-Fit Management: Sustainable Success Factor of Thailand Public University” is written by **Taninrat Rattanapongpinyo from Thailand**. This paper aimed to study three things include The meaning and forms of Cultural-fit Management, The factors affected to Cultural-fit Management, and The correlation between Cultural-fit Management and Sustainable Success Performance of Thailand public university, by collecting data through questionnaires from 250 academic officers of a leading public university in the Central region of Thailand, and all collected data were analyzed in the forms of mean, percentage and standard deviation for descriptive statistics and Simple regression and Pearson’s correlation coefficient testing for inferential statistic.

The ninth paper titled “Web Usage Patterns Using Association Rules and Markov Chains” is written by **Amnat Sawatnatee from Thailand**. This paper done to illustrate the probability of web page using at a period of time using two statistical techniques, and SME Nonthaburi province handicraft goods e-commerce web site was selected as a case study in this research. Web pages were categorized into three portions: SME firm section’s News, Goods details and Customer activities. Markov chain technique was applied in order to present probability of each event while Association rule technique was also used to derive the paths of web page visiting.

The tenth paper titled “Classification of Company Credit Rating Using Artificial Neural Network with Data Factorization” is written by **Krisada Khruchalee from Thailand**. This paper proposed to classify company credit rating applying an Artificial Neural Network (ANN) model incorporating with a Principle Component Analysis (PCA) technique for the purpose of extracting common factors from a large panel of input variables in order to overcome the multicollinearity problem in the financial figures by collecting rating report from a provided website of TRIS Rating (Thailand) Co., Ltd in September, 2018. The data set consists of 183 companies classified into 6 different levels of rating (AAA, AA, A, BBB, BB, and lower than B respectively).

The eleventh paper titled “Components of Information Technology and Communication Leadership of School Administrators” is written by **Amnat Apsorn, Boonchan Sisan, and Pariyaporn Tungkunan from Thailand**. This paper aimed to synthesize the components Information technology and Communication Leadership in school administrators by collecting and analyzing secondary data with a documentary research approach. The result indicated that the leadership of information technology and communication of school administrators consists of 8 components.

The twelfth paper titled “Improving University Programme Recommender System Based on MBTI by Using Gradient Boosted Trees and Firefly Algorithm” is written by **Phuwadol Viroonluecha and Thongchai Kaewkiriya from Thailand**. This paper showed the framework to encourage students and guidance system with a hybrid machine learning approach such as

gradient boosted trees and metaheuristics feature selection with the Myers-Briggs type indicator (MBTI) personality assessment, as choosing a university major after school graduation is a tough question for an undecided student.

The thirteenth paper titled “The Effect of Environmental Factor on Organizational Performance through Disruptive Innovation Management in the Electronic Industry” is written by **Wirat Butwapee, Natnarong Jaturat, and Chanongkorn Kuntobutr from Thailand**. This paper presented that Thailand’s electronics industry is influenced by the strong competitive environment especially, on information technology and innovation, this paper therefore done to study the business competitive environment influence on organizational performance; to investigate the influence of disruptive innovation management over organizational performance; and to study the impacts of environmental factors on organizational performance through disruptive innovation management by collecting data from 255 managers for in the information technology companies in Thailand through questionnaire survey.

The fourteenth paper titled “Improving ESL Primary Students’ Vocabulary Proficiency Using Authentic Listening Materials” is written by **Kulajit Khaneeyor from Thailand**. This paper done to examine the use of authentic listening materials in enhancing English vocabulary in the classroom among ESL primary students, and to examine their attitudes toward the use of such materials in the English language classroom. The participants in this study were 35 students who studied in Grade 2 at one of the famous school in Bangkok, Thailand.

The fifteenth paper titled “Causes and Effects of Educational Innovation in Thailand Public University” is written by **Tidathip Panrod from Thailand**. This paper proposed to study the definition and forms of Educational Innovation in Thailand Public University; to study factors affected to Educational Innovation in Thailand Public University; and to study effects of Educational Innovation in Thailand Public University, and data were collected by questionnaires from 250 academic officers of a leading public university in Thailand, while mean, percentage and standard deviation for descriptive statistics and Simple regression and Person’s correlation coefficient testing for inferential statistic were applied to analyse the collected data.

The sixteenth paper titled “Decision Factor of Using Accounting Software Packages of Accounting Office in Thailand” is written by **Chalida Linjee, Kanokmani Homkaew, and Parnee Raoyang from Thailand**. This paper done to study the factors effecting Decision Factor of Using Accounting Software Packages of Accounting Office in Thailand by conducting from 363 accountant administrators and used questionnaire as the tool to collect the data.

The seventeenth paper titled “Comparison of Digital Literacy Standard between Thailand and Other Countries” is written by **Surat Sukman, Aukkapong Sukkamart, Paitoon Pimdee, Pichai Sodhiban, and Lertlak Klinhom from Thailand**. This paper proposed to investigate and compare the Digital Literacy Standard between Thailand and other countries, due to Digital Literacy is of importance and necessary in life. Currently, life of all people regardless of their gender, age, and occupation depends on information technology. This paper has synthesized, investigated and compared the standard that was set by the OCSC and Thailand Professional Qualification Institute (Public Organization) with the standard of other countries.

The eighteenth paper titled “Effects of Induction Motor Using Unbalance Voltage” is written by **Pakkawee Hayamin and Chaiyapon Thongchaisuratkrul from Thailand**. This paper presented the effects of inductive motor was operated under imbalanced voltage condition. It was functional test of electric motor at field work by analyzing effect to motors in 3 aspects include temperature, efficiency and performance of motor.

The nineteenth paper titled “The Core Competency Development of Security Guard License in the Eastern Area According to Business Security Act B.E. 2558” is written by **Chanuan Uakarn, Kajohnsak Chaokromthong, Surachai Wattanachan, and Nittaya Sintao from Thailand**. This paper proposed to develop the Core Competency of Security Guard License in the Eastern Area According to Business Security Act B.E. 2558 by applying mix method qualitative and quantitative research methodology and collected data from 213 security guards license domicile in Chonburi, Rayong, and Chanthaburi by using Model of Samuel B. Green (1991).

The twentieth paper titled “Intellectual Enhancement Based on the Four Foundations of Mindfulness “Satipaṭṭhāna 4” Training and the Scientific Brain Signal: Electroencephalogram” is written by **Phrarajitthimuni (Vi). (Boonchit Nānasamvaro) from Thailand**. This paper presented the intellectual enhancement based on scientific and religious study areas, and primary explores the reflective knowledge of the insight meditation “Vipassanā” in accordance with four foundations of mindfulness called “Satipaṭṭhāna 4” training.



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