



## FOREWORD

I am very pleased to see that the Volume 26, Number 2 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](http://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](mailto: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 “A Revolutionizing Supply-Chain Management” is written by **Donia Damak from Tunisia**. This paper presented the importance of E-commerce and define it and examines its major elements that link organizational system, due to Electronic commerce (EC) is possibly the most promising application of information technology witnessed in recent years, which was revolutionizing supply-chain management and has enormous potential for manufacturing, retail and service operations.

The second paper titled “Spectrum Allocation and Licensing of Internet of Things (IoT) in Thailand” is written by **Settapon Malisuan, Wassana Kaewphanuekrungsi (Thailand), and David William (USA)**. This paper belonged to the Internet of Things (IoT) which involved people, businesses, and society, especially the issues involving telecommunications and the required regulation of the IoT system which currently widespread in various countries around the world and would enhance the communication capacity of various devices.

The third paper titled “An E-Learning Model Combining Moodle Program and Social Networks to Enhance Distance Learning” is written by **Chusak Narkpravit (Thailand) and Sorin M. Popovici (France)**. This paper aimed to develop an eLearning model combining Moodle with Facebook as a tool to enhance distance learning by conducting the research through the third year students of Faculty of Education as the sample group, which consisted of 20 students from the division of Educational Technology & Innovation as the experimental group, and 105 students from the division of Early Childhood Education as the control group. The result represented the behavior, trend and attitude toward social network.

The fourth paper titled “Success of Clothing Retailers through Online Channel Using Digital Marketing” is written by **Noppadol Tiannara and Kanyamon Inwang (Thailand)**. This paper studied the success of clothing entrepreneurs who use online channels to sell their products through digital marketing in Bangkok area, especially the increasing trend of Thailand to improve traditional and online clothing retailers by focussing on the features of online clothing retailers, and the aim of this research was to study the features of clothing retailers, characteristics of clothing retailers’ perception, and the information concerning business organizations which take part in the success of online clothing retailers.

The fifth paper titled “Causal Model of Variables by Bayes Theorem” is written by **Aryut Ruangtong, Somchai Prakanchroen, and Nalinpat Porrawatpreyakorn (Thailand)**. This paper proposed to create a causal model and a coefficient of correlation between each independent variable using Bayes Theorem, to find a logical relationship by applying Pearson Correlation technique, and to find for a coefficient of correlation between cause and effect variables.

The sixth paper titled “The Making of an Ideal Alliance Partner: the Perceptions of Singapore Managers” is written by **Nanda Lal Banik (Bangladesh) and Sumit Kumar Bhalla (Thailand)**. This paper was identified a comprehensive set of factors used for selecting strategic alliance partners, and to determined the relative importance according to each of these factors in the partner selection process by applying a questionnaire survey for gathering perceptual data from managers regarding desired attributes in joint venture partners, total 179 companies located in Singapore.

The seventh paper titled “The Proposition of an Online Collaboration Model Using Systems Thinking to Develop Leadership of Agricultural Undergraduate Students” is written by **Thanat Samanakupt, Noawanit Songkram, and Pichai Thongdeelert (Thailand)**. This paper was to develop an online collaboration model using systems thinking to develop the leadership of agricultural undergraduate students by dividing into two phases include the study of the effects of the online collaboration model and the proposition of the online collaboration model by using 46 undergraduates from the Faculty of Agriculture at Kasetsart University as the samples.

The eighth paper titled “RFID Utilization through Supply Chain Management and Logistics Performance” is written by **Sirichai Kingside, Natnarong Jaturat, and Chanongkorn Kuntanbutr (Thailand)**. This paper aimed to study the adoption of RFID (Radio Frequency Identification) in the operation of automotive parts industry in Thailand in order to increase the potential and effectiveness in supply chain and logistics management by using 99 manufacturing firms in automotive parts industry in Thailand as the sample group to conduct the research through the questionnaire.

The ninth paper titled “Asset Supply Chain Management Process with the Internet of Things for Good Governance for Higher Education Institutions” is written by **Watjanarat Kuandee, Prachyanun Nilsook, and Panita Wannapiroon (Thailand)**. This paper proposed to study the asset supply chain management process for higher education institutions, to design a holistic view of the asset supply chain management process for higher education institutions, and to design a conceptual framework of asset management for good governance with IoT for higher education institutions, and the sample consisted of thirty-one experts, each of them have more than five years’ experience in asset management and information technology which were selected by purposive sampling.

The tenth paper titled “The Development of Learning Organization Model for Cooperate University in Thailand” is written by **Pakorn Akkakanjanasupar (Thailand), David B. Hopkins (USA), Hemanta Raj Dahal (Nepal), and Neha Khetrpal (India)**. This paper focussed on the development of learning organization model for cooperate universities in Thailand, by applying mixed methods of research methodology which were assigned into 3 phases: qualitative for first and third face and quantitative for the second face, and each face used different population, sample, instrumentation, data collection, and analysis.

The eleventh paper titled “A Conceptual Model of Big Data for Electrical Energy Management in Smart City” is written by **Natthaphong Luangnaruedom, Narongrid Yimcharoenpornsakul, Pradit Songsangyos, and Manyad Limoransuksakul (Thailand)**. This paper proposed to design the Conceptual model of Big Data for Electrical Energy Management in Smart City, as the Smart City was the new age technological system for management and administration the facilities system by controlling with Information technology.

The twelfth paper titled “E-Learning Course Characteristics and User Satisfaction” is written by **Duangta Duangekanong, Somsit Duangekanong, and Thanawan Phongsatha (Thailand)**. This paper was to study the effect of course characteristics on e-learning user satisfaction, and conducted in the context of a workplace training course at an industrial manufacturing firm in Thailand. A user satisfaction survey was used to evaluate the performance of the e-learning system across the firm (n = 278).

The thirteenth paper titled “A Thai 7<sup>th</sup> Grade Needs Assessment Analysis for Creativity Skills Curriculum Development” is written by **Prasanta Somintara, Aukkapong Sukkamart, Paitoon Pimdee, Pichai Sodbhiban, and Lertlak Klinhom (Thailand)**. This paper was proposed a curriculum development needs assessment analysis of Thai 7<sup>th</sup> grade students’ creativity abilities by using multistage random sampling to select 476 Bangkok area Thai teachers and administrators, and analysis was conducted from the needs assessment questionnaire, from which data was obtained concerning curriculum development and the techniques for strengthening 7<sup>th</sup> grade student.

The fourteenth paper titled “The Management of Quality Assurance System of Thai Private Hospitals” is written by **Khannaphot Kangpanishkul (Thailand)**. This paper was proposed to review the quality assurance management of Thai private hospitals, due to the quality of medical services must be taken consideration and prominently regarded as the most important factor in management of quality assurance system, because such services play vital roles in representing of its reputation, image, credibility, and achievement with highly trained medical specialists, in particular.

The fifteenth paper titled “Communication Protocol Model for Language Game with Multi-Agents and Multi-Languages Using Dynamic Radius of SOM” is written by **Somjin Juntarajessadakorn, Vatinee Nuipian, and Phayung Meesad (Thailand)**. This paper demonstrated how autonomous systems can learn and communicate with each other in three different humane languages by proposing a conceptual model based on Language Games and Conceptual Spaces.

The sixteenth paper titled “Information Technology Utilization of Undergraduates Faculty of Accounting, Bangkokthonburi University” is written by **Chalida Linjee, Supatra Chantanasiri, Supaporn Boon-Iam, and Nisarath Viangsutorn (Thailand)**. This paper was to study the information technology utilization of undergraduate students, Accountant faculty, Bangkokthonburi University by using The questionnaire as the tool to collect data from 254 undergraduate students at Bangkokthonburi University, and on-way analysis of variance was used as the analysis method.

The seventeenth paper titled “Components Desirable Leadership Characteristics of Undergraduate Students: Document Research” is written by **Suttitug Choonprawat, Malai Thawisook, and Tanin Rattanaolarn (Thailand)**. This paper aimed to analyze the leadership components of undergraduate students by using qualitative methods to collect and analyze secondary data, and the results showed that the leadership components of undergraduate students consist of heart, head, hand, and health.

The eighteenth paper titled “Automatically Algorithm for Physician’s Handwritten Segmentation on Prescription” is written by **Narumol Chumuang and Mahasak Ketcham (Thailand)**. This paper proposed a novel approach for physician's handwritten text region detection algorithm based on the threshold and the basis of 4 and 8-connected component, as the handwriting style of people are privacy. Especially, the physician's handwritten is unique and particular word like medical name, symbolic, symptoms of disease.

The nineteenth paper titled “Requirements of E-Learning for Learning Management of Teacher and Student in General Education” is written by **Kattakamon Pislai-Ngam, Thiyaporn Kantathanawat, and Paitoon Pimdee (Thailand)**. This paper reviewed that e-Learning is an innovative approach to learning and more important role of all the technologies in the supporting collaboration, document management and knowledge management, therefore proposed to study requirements of e-Learning for learning management of teacher and student in General Education, and The Samples consisted of 30 teachers and 320 students, selected by stratified random sampling technique who registered in General Education, first semester academic year 2017.

The twentieth paper titled “Application of PIMOGA for Optimization to Upgrade Drainage Gates in Network” is written by **Prudtipong Pongsiri (Thailand)**. This paper presented the application of PIMOGA method (Partition of Initial Population for Multi-objective Genetic Algorithm) for optimization to upgrade drainage gates in network.

The twenty-first paper titled “Palm Leaf Manuscript Segmentation and Reading by Using Artificial Neural Networks” is written by **Thanannath Phattharachairawee, Montean Rattanasiriwongwut, and Mahasak Ketcham (Thailand)**. This paper presented a palm leaf manuscript’s Isan Dhamma characters segmentation and reading conducted by using image processing, and the objective was to utilize the obtained data in sentence recognition process further. The input was digital photos of a palm leaf manuscript written with Isan Dhamma characters that was proposed to be adjusted on its quality by adjusting light intensity through histogram.

The twenty-second paper titled “A Development of Constructionism Learning Skills Model for Internship Student Teachers in Thailand” is written by **Sirikanya Netrthanon, Sirirat Petsangri, and Paitoon Pimdee (Thailand)**. This paper proposed to develop the constructionism learning skills model for internship student teachers in Thailand, by exploring the model of teaching process and observing the experimental teaching of the internship student teachers at faculty of Industrial Education and Technology, King Mongkut’s Institute of Technology Ladkrabang, and the data were collected via 4 steps.



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