

Conference Program

2019 - 16th International Joint Conference on Computer Science and Software Engineering (JCSSE)

Amari Pattaya Hotels, Pattaya , Thailand

Organized by Department of Mathematics and Computer Science, Faculty of Science, Chulalongkorn University, Thailand and Faculty of Informatics, Burapha University, Chonburi, Thailand

July 10 - 12, 2019

July 10, 2019	13.00-16.00	Registration	
	16.30-17.30	Local Organizing & Technical Program Committee Meeting	
	17:30-20:30	Welcome Reception for Keynote Speakers	
July 11, 2019	08.00-09.00	Registration	
	09.00-09.25	Opening Ceremony	
	09.25-10.10	Keynote-I	Matching Next-Gen HPC with Target Applications Professor Dr. Pascal Bouvry, University of Luxembourg, Luxembourg
	10.10-10.30	Break	
	10.30-11.15	Keynote-II	Business Transformation with Blockchain By Professor Dr.Dusit Niyato, School of Computer Science and Engineering and, by courtesy School of Physical & Mathematical Sciences, at the Nanyang Technological University Singapore
	11.15-12.00	Keynote-III	(TBA)
	12.00-13.00	Lunch & Free Discussion	

July 11, 2019		PaperID	Meeting room I Regular: Machine Learning and Computational Intelligence Chair: Assoc. Prof. Dr. Rajalida Lipikorn and TBA	PaperID	Meeting room II Regular: Intelligent Applications Chair: Asst. Prof. Dr. Kingkarn Sookhanaphibarn and TBA	PaperID	Meeting room III Steering Committee Meeting
	13.00-13.20	1570528326	Development of Behavior Monitoring System for Honeybees in Hive Using RFID sensors and Image Processing; By Shinya Takahashi, Koji Hashimoto and Sakashi Maeda (Fukuoka University, Japan); Yujie Li (Fukuoka University); Naoyuki Tsuruta and Hiroyuki Ai (Fukuoka University, Japan)	1570542774	IVAA: Intelligent Vehicle Accident Analysis System; By Kundjanasith Thonglek (Nara Institute of Science and Technology, Japan); Norawit Uraileertprasert (Vidyasirimedhi Institute of Science and Technology, Thailand); Patchara Pattiyathanee and Chantana Chantrapornchai (Kasetsart University, Thailand)	-	-
	13.20-13.40	1570536960	Analysis and Prediction of Temporal Twitter Popularity Using Dynamic Time Warping; By Rattasit Sermasai and Sirisup Laohakiat (Srinakharinwirot University, Thailand)	1570542836	DATA++: An Automated Tool for Intelligent Data Augmentation Using Wikidata; By Waran Taveekarn, Chatchanin Yimudom and Supisara Sukkanta (Mahidol University, Thailand); Steven Lynden (National Institute of Advanced Industrial Science and Technology (AIST), Japan); Suppawong Tuarob (Mahidol University, Thailand)	-	-
	13.40-14.00	1570537018	Text Generation for Imbalanced Text Classification; By Suphamongkol Akkaradamrongrat, Pornpimon Kachamas and Sukree Sinthupinyo (Chulalongkorn University, Thailand)	1570542940	Multi-Paths Generation for Structural Rule Quests; By Thongtham Chongmesuk and Vishnu Kotrajaras (Chulalongkorn University, Thailand)	-	-
	14.00-14.20	1570537322	Information Extraction based on Named Entity for Tourism Corpus; By Chantana Chantrapornchai (Kasetsart University, Thailand); Apisit Tunsakul (Kasetsart University, Thailand)	1570542954	Kiddy Manner: A Game-Based Mobile Application for Children Learning Thai Social Etiquette; By Songsri Tangsripairoj, Mathawee Sukkhet, Jidapa Sumanotham and Benya Yusuk (Faculty of ICT, Mahidol University, Thailand)	-	-
	14.20-14.40	Break					

July 11, 2019	PaperID	PaperID	Meeting room I Regular: Machine Learning and Computational Intelligence Chair: Assoc. Prof. Dr. Nagul Cooharojananone and TBA	PaperID	Meeting room II Regular: Machine Learning and Computational Intelligence Chair: Asst. Prof. Dr. Komate Amphawan and TBA	PaperID	Meeting room III Regular: Internet of Things and Intelligent Computer Networks and Applications Chair: Assoc. Prof. Dr. Peraphon Sophatsathit and Dr. Pichet Wayalun
14.40-15.00	1570537371		Cross-Category Product Recommender System based on Multi-Criteria Rating using Diversity and Novelty Evaluation; By Saranya Maneeroj (Chulalongkorn University, Thailand); Pongsakorn Jirachanchaisiri, Chanisara Suksomjit and Apirom Zatloukal (Chulalongkorn University, Thailand)	1570543067	Speech-to-Thai Sign language conversion for Thai deaf: a case study of crime news; By Nattapol Namyang, Jarukit Lumpaolertwilai and Suphakant Phimoltares (Chulalongkorn University, Thailand)	1570542673	The Control Model for Environmental Factor Effecting on Growth of St. John's wort; By Narongsak Lekbangpong (Faculty of Science and Industrial Technology Prince of Songkla University, Surat Thani Campus, Thailand); Jirapond Muangprathub (Faculty of Science and Industrial Technology, Prince of Songkla University & Suratthani Campus, Thailand); Theera Srisawat (Faculty of Science and Industrial Technology Prince of Songkla University, Surat Thani Campus, Thailand); Apirat Wanichsombat (Faculty of Science and Industrial Technology Prince of Songkla University, Surat Thani Campus, Thailand)
15.00-15.20	1570538865		Physically-Based Modelling and Simulation of Track-based Main Battle Tank System for a realistic 3D Game; By Yodthong Rodkaew (UTCC, Thailand)	1570543079	Semi-Automatic Word-Aligned Tool for Thai-Vietnamese Parallel Corpus Construction; By Dang Ngoc Chuong (KhonKaen University Thailand, Thailand); Pusadee Seresangtakul (Khon Kaen University, Thailand)	1570543106	A low-cost RTK device with cloud-based application for RTK survey solution; By Sittha Saisawan (Naresuan University, Thailand); Duangduen Asavasuthirakul (Naresuan University, Thailand); Antony Harfield (Naresuan University, Thailand); Prasert Wiangsukphaiboon (Nakra Microtek, Thailand)
15.20-15.40	1570539829		Vehicle Logo Detection Using Sliding Windows with Sobel Edge Features and Recognition Using SIFT Features; By Pakorn Watanachaturaporn (King Mongkut's Institute of Technology Ladkrabang & Faculty of Engineering, Thailand); Jatupon Benjaprakairat (King Mongkut's Institute of Technology Ladkrabang, Thailand)	1570547250	Graph Clustering with K-Nearest Neighbor Constraints; By Wararat Jakawat (Prince of Songkla University, Thailand); Raywat Makkhongkaew (Business, Thailand)	1570527283	Development of Reliable Wireless Communication System for Secure Blockchain-based Energy Trading; By Zhuoxian Huang (Energy Research Institute @ NTU, Singapore); Kongrath Suankaewmanee (Nanyang Technological University, Singapore); Jiawen Kang (Nanyang Technological University & Guangdong University of Technology, Singapore); Dusit Niyato (Nanyang Technological University, Singapore); Pei Sin Ng (Energy Research Institute @ NTU, Singapore)

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	15.40-16.00	1570541149	Fake News Detection System using Article Abstraction; By Kyeong-hwan Kim and Chang-Seong Jeong (Korea University, Korea)	1570547316	Optimizing a Number of Overlapping Items for Equating Estimated Item Parameters; By Sarunya Deachnatee (Thammasat University, Thailand)	1570542701	An In-Memory Checkpoint-Restart Mechanism for a Cluster of Virtual Machines; By Jumpol Yaothane and Kasidit Chanchio (Thammasat University, Thailand)
	16.00-16.20	1570542302	An Individual Local Mean-based 2DPCA for Face Recognition under Illumination Effects; By Kongsadan Hancherngchai (Naresuan University, Thailand); Taravichet Titijaronroj (King Mongkut's Institute of Technology Ladkrabang, Thailand); Jaratsri Rungrattanaubol (Naresuan University, Thailand)	1570547403	Region-Focus Training: Boosting Accuracy for Deep-Learning Image Segmentation; By Chanok Pathompatai and Pinyo Taeprasartsit (Silpakorn University, Thailand)	1570547233	Enhanced DDoS Detection using Hybrid Genetic Algorithm and Decision Tree for SDN; By Parinya Preamthaisong, Anucha Auypontrakool, Phet Aimtongkham, Titaya Sriwuttisap and Chakchai So-In (Khon Kaen University, Thailand)
	16.20-16.40	1570542304	Modified Scale-Space Analysis in Frequency Domain Based on Adaptive Multiscale Gaussian Filter for Saliency Detection; By Jenjira Jaemsiri (Naresuan University, Thailand); Taravichet Titijaronroj (King Mongkut's Institute of Technology Ladkrabang, Thailand); Jaratsri Rungrattanaubol (Naresuan University, Thailand)	-	-	-	-
	16.40-17.30	Free discussion					
17.30-20:30	Welcome Reception / Banquet						

July 12, 2019	08.00-09.00	Registration					
		PaperID	Meeting room I Regular: Machine Learning and Computational Intelligence Chair: Asst. Prof. Dr. Khamron Sunat and Asst. Prof. Dr. Dittaya Wanvarie	PaperID	Meeting room II Regular: Information Technology Chair: Dr.Chotiros Surapholchai and (TBA)	PaperID	Meeting room III Regular: Software Engineering Chair: Asst. Prof. Dr. Somjai Boonsiri and TBA
	09.00-09.20	1570542305	Seven Segment Display Detection and Recognition using Predefined HSV Color Slicing Technique; By Sorawee Popayorm (Naresuan University, Thailand); Taravichet Titijaronroj (King Mongkut's Institute of Technology Ladkrabang, Thailand); Thanathorn Phoka and Wansuree Massagram (Naresuan University, Thailand)	1570537927	Thai Handwriting beautification; By Supawan Tasanaprasert (KMITL, Thailand); Karun Tonmaithong (Ladkrabang, Thailand)	1570542506	An Image-Based Vocabulary Learning System Based on Multi-Agent System; By Preecha Tangworakitthaworn (Mahidol University, Thailand)
	09.20-09.40	1570542312	Quantitative Trading Machine Learning Using Differential Evolution Algorithm; By Chukiat Worasuchep (King Mongkut's University of Technology Thonburi, Thailand)	1570528296	Discovering Factors Associated with Online Gaming Behaviors; By Bernardinus Harnadi (Soegijapranata Catholic University, Indonesia)	1570542924	Software defect detection based on selected complexity metrics using fuzzy association rule mining and defective module oversampling; By Mohammad Naufal (Universitas Surabaya, Indonesia); Selvia Kusuma (Institut Teknologi Sepuluh Nopember, Indonesia)
	09.40-10.00	1570542529	Ensemble CNN and MLP with Nurse Notes for Intensive Care Unit Mortality; By Aye Hninn Khine (Prince of Songkla University, Thailand); Wiphada Wettayaprasit (Prince of Songkla University & Faculty of Science, Thailand); Jarunee Duangsuwan (Prince of Songkla University, Thailand)	1570529455	Enhancing a Keyword Search Using Segmentation and Similarity Measure Algorithms: A Case Study of Phuket Attractions; By Kitsiri Chochiang (Prince of Songkla University, Phuket Campus, Thailand); Witaya Khuanwilai (Prince of Songkla University, Thailand)	1570546325	Automatic Question Generation With Classification Based On Mind Map; By Selvia Kusuma (Institut Teknologi Sepuluh Nopember, Indonesia); Daniel Siahaan (Institut teknologi Sepuluh Nopember, Indonesia); Chastine Fatichah (Institut Teknologi Sepuluh Nopember, Indonesia); Mohammad Naufal (Universitas Surabaya, Indonesia)

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	10.00-10.20	1570542534	Convolutional Neural Networks Using MobileNet for Skin Lesion Classification; By Wannipa Sae-Lim (Prince of Songkla University, Thailand); Wiphada Wettayaprasit (Prince of Songkla University & Faculty of Science, Thailand); Pattara Aiyarak (Faculty of Science, Prince of Songkla University, Thailand)	1570542789	An Information Integration System to Continuing of Care Case study Nongsung Hospital, Mukdahan THAILAND; By Pranithan Klangprapunt (Khonkaen University & Nongsung Hospital, Thailand); Pusadee Seresangtakul (Khon Kaen University, Thailand)	1570547008	User Story Extraction from Online News for Software Requirements Elicitation: A Conceptual Model; By Indra Kharisma Raharjana (Institut Teknologi Sepuluh Nopember & Universitas Airlangga, Indonesia); Daniel Siahaan (Institut teknologi Sepuluh Nopember, Indonesia); Chastine Fatchah (Institut Teknologi Sepuluh Nopember, Indonesia)
	10.20-10.40	1570542693	A Hotel Hybrid Recommendation Method based on Context-Driven using Latent Dirichlet Allocation; By Weraphat Nimchaiyanan (Chulalongkorn University, Thailand); Saranya Maneeroj (Chulalongkorn University, Thailand)	1570537320	ARCode: Augmented Reality Application for Learning Elementary Computer Programming; By Sirawit Sittiyuno and Kornchawal Chaipah (Khon Kaen University, Thailand)	1570547291	Sequence Diagram Similarity Measurement: A Different Approach; By Evi Triandini (STMIK STIKOM Bali, Indonesia); Reza Fauzan (Institut Teknologi Sepuluh Nopember & Politeknik Negeri Banjarmasin, Indonesia); Daniel Siahaan (Institut teknologi Sepuluh Nopember, Indonesia); Siti Rochimah (Institut Teknologi Sepuluh Nopember, Indonesia)
	10.40-11.00	Break					

July 12, 2019	PaperID	Meeting room I Regular: Machine Learning and Computational Intelligence Chair: Assoc. Prof. Dr. Kittichai Lavangnananda and Dr. Wutichai Chongchitmate	PaperID	Meeting room II Regular: Information Technology Chair: Asst.Prof.Dr. Pattara Aiyarak and Dr. Prajaks Jitngernmadan	PaperID	Meeting room III Regular: Bio and Medical Informatics Chair: Asst. Prof. Dr. Kittipron Playmas and TBA	
	11.00-11.20	1570542719	Spatio-Temporal Deep Learning for Ocean Current Prediction Based on HF Radar Data; By Nathachai Thongniran and Peerapon Vateekul (Chulalongkorn University, Thailand)	1570542545	Web-based Elderly Monitoring System with GIS; By Anirut Sriwichian (Prince of Songkla University, Thailand); Jirapond Muangprathub (Faculty of Science and Industrial Technology, Prince of Songkla University & Suratthani Campus, Thailand); Pichetwut Nillaor (The Research Unit of Administrative Innovation in Local Administrative Organization & Faculty of Liberal Arts and Management Sciences, Prince of Songkla University, Thailand)	1570538175	Hybrid EEG-fEMG based Human-Machine Interface for Communication and Control Applications; By Yunyong Punsawad and Kessarabhorn Chuysud (Silpakorn University, Thailand)
	11.20-11.40	1570542737	Utilizing Google translated reviews from Google map in sentiment analysis for Phuket tourist attractions; By Boonyanit Mathayomchan (Mahidol University, Thailand); Kunwadee Sripanidkulchai (Chulalongkorn University, Thailand)	1570543979	Estimating the new Initial Value of Trial Division Algorithm for Balanced Modulus to Decrease Computation Loops; By Kritsanapong Somsuk (Faculty of Technology, Udonthani Rajabhat Universit, Thailand)	1570547231	Circular Vector Field Analysis for the Adaptive Diffusion Flow Snakes Applied to Ultrasound Images of Breast Cancer; By Annupan Rodtook (Ramkhamhaeng University, Thailand); Khwunta Kirimasthong (School of Information Technology, Mae Fa Luang University, Thailand)
	11.40-12.00	1570542740	Thai Sign Language Recognition Using 3D Convolutional Neural Networks; By Nutisa Sripairojthikoon (King Mongkut's University of Technology Thonburi, Thailand); Jaturon Hansomboon (KMUTT, Thailand)	1570546542	A DIFF-Based Indoor Positioning System Using Fingerprinting Technique and K-Means Clustering Algorithm; By Apichon Anuwatkun (The Electrical Engineering Graduate Program, Faculty of Engineering, MUT, Thailand); Jirapat Sangthong (Telecommunication Engineering, Faculty of Engineering, Mahanakorn University of Technology, Thailand); Sommart Sang-Ngern (Mahanakorn University of Technology, Thailand)	1570547324	A Linear-time Algorithm for Optimal Tree Completion; By Nonthaphat Wongwattanakij and Chawin Aiemvaravutigul (Kasetsart University, Thailand)
12.00-13.00	Lunch						

July 12, 2019	PaperID	Meeting room I Regular: Machine Learning and Computational Intelligence Chair: Asst. Prof. Dr. Saranya Maneeraj and Dr. Praisan Padungweang	PaperID	Meeting room II Regular: Information Technology Chair: Dr. Arthorn Luangsodsai and TBA	PaperID	Meeting room III Regular: Special Session on Integrated Software and Hardware for Intelligent System Chair: Asst. Prof. Dr. Montri Phothisonthai and Assoc. Prof. Dr. Ekkarat Boonchieng	
	13.00-13.20	1570542979	Identifying an original copy of the source codes in programming assignments; By Chawalit Saoban and Sunisa Rimcharoen (Burapha University, Thailand)	1570542733	An Ontology for SNORT Rule; By Assadarat Khurat (Mahidol University, Thailand); Wudhichart Sawangphol (Mahidol University & Faculty of ICT, Thailand)	1570537935	A Classification for Patients with Heart Disease Based on Hoeffding Tree; By Narumol Chumuang (Muban Chombueng Rajabhat University, Thailand); Sorratha Kritsanasung (Maban Chombueng Rajabhat University, Thailand); Sattarpoom Thaiparnit (Rajamangala University of Technology Suvarnabhumi, Thailand)
	13.20-13.40	1570543012	Classification of Nutrient Deficiency in Black Gram Using Transfer Learning; By Kadipa Aung Myo Han (King Mongkut's Institute of Technology Ladkrabang, Thailand); Ukrit Watchareeruetai (International College, King Mongkut's Institute of Technology Ladkrabang, Thailand)	1570542664	A Result Verification of Decision Tree Model for Industrial Wireless Sensors Selection using Analytic Hierarchy Process; By Saksiri Meesawad (KMITL, Thailand); Bundit Thanasopon and Olarn Wongwirat (King Mongkut's Institute of Technology Ladkrabang, Thailand)	1570541402	the method of Integrating Virtual Reality with Brainwave Sensor for an Interactive Math's Game; By Erdhi Widyarto Nugroho and Bernardinus Harnadi (Soegijapranata Catholic University, Indonesia)
	13.40-14.00	1570543029	An Open-source Based Automatic Car Detection System using IoT; By Assadarat Khurat (Faculty of Information and Communication Technology, Mahidol University, Thailand); Nappaphol Siriphun (Mahidol University, Thailand); Jiratchaya Saingthong and Jirapat Sriwiphasathit (Faculty of Information and Communication Technology, Mahidol University, Thailand)	1570542908	WhatTheHealth: An Android Application for Consumers of Healthy Food; By Songsri Tangsripairoj, Nonthpat Wongkham, Bongkotmanee Leelalerkiat and Sarun Chuenpukdi (Faculty of ICT, Mahidol University, Thailand)	1570543027	Impacts of Camera Frame Pacing for Video Recording on Time-Related Applications; By Nattapong Tangjui and Pinyo Taeprasartsit (Silpakorn University, Thailand)
	14.00-14.20	1570543035	Natural Language Contents Evaluation System for Detecting Fake News using Deep Learning; By Yechan Ahn and Chang-Seong Jeong (Korea University, Korea)	1570542745	Moving object detection using integrated spatial and motion-based method; By Manit Chansuparp and Kulsawasd Jitkajornwanich (King Mongkut's Institute of Technology Ladkrabang, Thailand)	1570543053	IoT-based Seven Segment Display Reader with Chessboard Calibration and Template Determination; By Wansuree Massagram and Thanathorn Phoka (Naresuan University, Thailand)
	14.20-14.40	Break					

July 12, 2019		PaperID	Meeting room I Regular: Machine Learning and Computational Intelligence Chair: Assoc. Prof. Dr. Kittichai Lavangnananda and Asst. Prof. Dr. Pakawan Pugsee	PaperID	Meeting room II Regular: Information Technology Chair: Asst. Prof. Dr. Nutthanon Leelathakul and TBA	PaperID	Meeting room III Regular: Special Session on Integrated Software and Hardware for Intelligent System Chair: Asst. Prof. Dr. Montri Phothisonothai and Assoc. Prof. Dr. Ekkarat Boonchieng
	14.40-15.00	1570543077	A Hybrid Engine for Clinical Information Extraction from Radiology Reports; By Khushbu Gupta (Mahidol University, Thailand)	1570543015	Game Elements to Promote Walking in Thais Working Adults; By Sakchai Muangsrinoon (Walailak University, Thailand); Poonpong Boonbrahm (WU, Thailand)	1570543059	Feature Reduction from Correlation Matrix for Classification of Plants in Common Genus; By Varin Chouvatut (Chiang Mai University, Thailand)
	15.00-15.20	1570543082	Classification of Anger Voice in Call Center Dialog; By Widakorn Saewong (Chulalongkorn University, Thailand); Janjao Mongkolnavin (Chulalongkorn Business School, Chulalongkorn University, Thailand)	1570543074	Condition Based Maintenance for Data Center Operations Management; By Montri Wiboonrat (Faculty of Engineering, King Mongkut's Institute of Technology Ladkrabang, Thailand)	1570547314	Eye-Tracking Based Visualizations and Metrics Analysis for Individual Eye Movement Patterns; By Rasa Bhattarai (King Mongkut's Institute of Technology, Ladkrabang, Thailand)
	15.20-15.40	1570547230	Classification of Fruit In a Box (FIB) Using Hybridization of Color and Texture Features; By Jirapat Watcharasing, Thanaporn Thiralertphanich, Sasipa Panthuwadeethorn and Suphakant Phimoltares (Chulalongkorn University, Thailand)	1570547326	Practical Differential Privacy for Location Data Aggregation using a Hadamard Matrix; By Patinya Sangiamchit and Jittat Fakcharoenphol (Kasetsart University, Thailand)	1570547322	Implementation the SoC of PCB Reflow Soldering; By Thanat Sooknuan (Rajamangala University of Technology Isan & Faculty of Engineering and Architecture, Thailand)
	15.40	Closing Ceremony					