



Conference Program

the 2019 - 11th International Conference on Knowledge and Smart Technology (KST)

Novotel Phuket Vintage Park, Phuket, Thailand

Organized by KST Research Lab, Faculty of Informatics, Burapha University, Chonburi, Thailand

January 23 - 26, 2019

January 23, 2019	15.00-16.30	Registration			
	16.30-17.30	Local Organizing & Technical Program Committee Meeting			
	17.30-20.30	Welcome Reception for Steering & Technical Program Committee and Keynote Speakers @Novotel Phuket Vintage Park, Phuket			
January 24, 2019	08.00-08.40	Registration			
	08.40-09.00	Opening Ceremony			
	09.00-09.45	Keynote-I	Resource Provisioning for the Internet of Things		
			Professor Dr. Albert Y. ZOMAYA (Chair Professor of High Performance Computing & Networking in the School of Information Technologies, The University of Sydney, Australia)		
	09.45-10.30	Keynote-II	Machine learning for metaheuristics - state of the art and perspectives		
			Professor Dr. El-ghazali TALBI (Head of the optimization team of the Computer Science laboratory, University of Lille, France)		
	10.30-11.00	Break			
		PaperID	Meeting room I Regular: Computational Intelligence Chair: Asst. Prof. Dr. Pusadee Seresantakul, Khon Kaen University, Thailand	PaperID	Meeting room II Regular: Intelligent Computer Networks and Systems Chair: Asst. Prof. Dr. Warangkham Kimpan, King Mongkut's Institute of Technology Ladkrabang, Thailand
	11.00-11.20	1570499289	EKG-based Person Authentication Method Using Deep Learning with Visual Stimulation; By Supawich Puengdang (Mahidol Wittayanusorn School, Thailand); Teerapath Sattabongkot (Mahidol Wittayanusorn School, Thailand); Suppawong Tuarob (Mahidol University, Thailand); Boonnatee Sakboonyarat (Mahidol Wittayanusorn School, Thailand)	1570491825	Simplified Phase-Equalization System Design via Linearizing Nonlinear Design Constraints; By Tian-Bo Deng (Toho University, Japan)
	11.20-11.40	1570504130	U-Net and Mean Shift Histogram for Efficient Liver Segmentation from CT-Images; By Boonnatee Sakboonyarat (Silpakorn University, Thailand); Pinyo Taepasartsit (Silpakorn University, Thailand)	1570496167	On Studying of Scalability in Single-controller Software-Defined Networks; By Soranad Chaipet (Thammasat University, Thailand); Wanida Putthividhya (Thammasat University, Thailand)
11.40-12.00	1570490696	Discovering Fuzzy Rules with Parallelized Linguistic Variable Elimination; By Jan Bohacik (University of Zilina, Slovakia); Michal Záborský (University of Zilina, Slovakia)			
12.00-13.00	Lunch & Free Discussion				

		PaperID	Meeting room I Regular: Emerging Intelligent Technologies Chair: Asst. Prof. Dr. Suchada Tantisatirapong, Srinakharinwirot University, Thailand	PaperID	Meeting room II Regular: Intelligent Applications Chair: Dr. Thatsanee Charoenporn, Burapha University, Thailand
January 24, 2019	13.00-13.20	1570504228	Flight Path Pattern of Solar-powered UAV- Mission around the World; By Chin How Tan (Universiti of Sains Malaysia, Malaysia); Parvathy Rajendran (Universiti of Sains Malaysia, Malaysia)	1570504100	Thai-Isarn Dialect Parallel Corpus Construction for Machine Translation; By Pusadee Seresantakul (Khon Kaen University, Thailand); Paweena Unlee (Sakon Nakhon Rajabhat University, Thailand);
	13.20-13.40	1570506824	Applying item response theory in adaptive tutoring systems for Thai language learners; By Saowalak Rungrat (Naresuan University, Thailand); Antony Harfield (Naresuan University, Thailand); Supiya Charoensiriwath (National Electronics and Computer Technology Center, Thailand)	1570504116	Improvement of Scanned Medical Document Management System; By Ekkapong Promin (Prince of Songkla University, Thailand); Petcharat Suriyachai (Prince of Songkla University, Thailand)
	13.40-14.00	1570507191	Temperature Measurement and Control System for Refrigerated Vehicle; By Yong-jin Lim (Hanyang University, Korea); Sun-Kyu Kim (Hanyang University, Korea); Jung-Hwan Kim (Hanyang University, Korea); Tae-Min Lee (Hanyang University, Korea); Joonhong Lim (Hanyang University, Korea)	1570489668	Displaying Winning Probabilities in Volleyball Interests Audiences Sensitive to Probability; By Tomoyuki Maekawa (The University of Tokyo, Japan); Kazuhiro Ueda (The University of Tokyo, Japan)
	14.00-14.20	1570507427	Blind Image Watermarking Based on Discrete Hilbert Transform and Polar Decomposition; By A. H. M. Mohashin (Chittagong University of Engineering and Technology, Bangladesh); Pranab Kumar Dhar (Chittagong University of Engineering and Technology, Bangladesh); Tetsuya Shimamura (Saitama University, Japan)	1570502620	Applied Particle Swarm Optimization in Solving Container Loading Problem for Logistics; By Sasithorn Koonsintananan (King Mongkut's Institute of Technology Ladkrabang, Thailand); Warangkham Kimpan (King Mongkut's Institute of Technology Ladkrabang, Thailand)
	14.20-14.50	Poster Discussion: ID 1570492040, 1570493911, 1570495043, and 1570507344 / Break			

		PaperID	Meeting room I Regular: Intelligent Computer Networks and Systems Chair: Assoc. Prof. Dr. Kittichai Lavangnananda, King Mongkut's University of Technology Thonburi, Thailand	PaperID	Meeting room II Regular: Computational Intelligence Chair: Asst. Prof. Dr. Warangkham Kimpan, King Mongkut's Institute of Technology Ladkrabang, Thailand
January 24, 2019	14.50-15.10	1570497655	Error Control Coding and Performance Measurement for Software Defined Radios; By Nikhil Marriwala (Kurukshetra University, India); Bhawna Verma (Kurukshetra University, India)	1570499639	Improve Traffic Prediction Using Accident Embedding on Ensemble Deep Neural Networks; By Wanida Liyong (Chulalongkorn University, Thailand); Peerapon Vateekul (Chulalongkorn University, Thailand)
	15.10-15.30	1570498937	Network Traffic Threat Feature Recognition Based on a Convolutional Neural Network; By Gao Yang (Assumption University, Thailand); Anilkumar Kothalil Gopalakrishnan (Assumption University, Thailand)	1570501108	Color Analysis on the Symbolic Temple of King in Chakri Dynasty of Thailand; By Kanakorn Ruxpaitoon (Thai-Nichi Institute of Technology, Thailand); Thitiporn Lertrusdachakul (Thai-Nichi Institute of Technology, Thailand)
	15.30-15.50	1570501151	Multi-Objective Scheduling for Scientific Workflows on Cloud with Peer-to-peer Clustering; By Peerasak Wangsom (King Mongkut's University of Technology Thonburi, Thailand); Kittichai Lavangnananda (King Mongkut's University of Technology Thonburi, Thailand); Pascal Bouvry (University of Luxembourg, Luxembourg)	1570502866	A survey on the multiple classifier for new benchmark dataset of Vietnamese news classification; By Huu-Thanh Duong (Ho Chi Minh City Open University, Vietnam); Vinh Truong Hoang (Ho Chi Minh City Open University, Vietnam)
	15.50-16.10	1570503086	A Further Optimized Mix Column Architecture Design for the Advanced Encryption Standard; By Sudhir Rao Rupanagudi (WorldServe Education, India); Varsha G Bhat (WorldServe Education, India); Darshan G (APS College of Engineering, India); Darshan S (APS College of Engineering, India); Valliveti Vidya J (APS College of Engineering, India); Padmavathi P (APS College of Engineering, India); Shreya K. Gurikar (PES University, India); Nivedita Sindhu (PES University, India)	1570503275	Behavior Recognition Based on RBAC-Ensemble Model; By Chong Liu (University of Science and Technology of China, China); Shaoyin Cheng (University of Science and Technology of China, China); Yuxuan Luo (University of Science and Technology of China, China); Fan Jiang (University of Science and Technology of China, China)
	16.10-16.30	1570507185	Implementation of variable frame-rate algorithm for transmitting black-box data to mobile device; By Tae-Lee Min (Hanyang University, South Korea); Jung-Hwan Kim (Hanyang University, South Korea); Sun-Kyu Kim (Hanyang University, South Korea); Yong-Jin Lim (Hanyang University, South Korea); Joonhong Lim (Hanyang University, South Korea)	1570503649	Question answering based on ensemble classifier for university enrolment advising; By Huu-Thanh Duong (Ho Chi Minh City Open University, Vietnam); Vinh Truong Hoang (Ho Chi Minh City Open University, Vietnam)
	16.30-17.00	Free discussion			
	17.30-18.00	Steering Committee Meeting & International Consortium in Informatics Meeting			
	18.00-20.30	Welcome Reception / Banquet			

January 25, 2019	08.00-08.50	Registration			
		PaperID	Meeting room I Regular: Special Session on Cognitive Science and Human Perception Chair: Prof. Dr. Katsumi Watanabe, Waseda University / the University of Tokyo, Japan and Prof. Dr. Roberto Caldara, University of Fribourg, Switzerland	PaperID	Meeting room II Regular: Intelligent Applications Chair: Assoc. Prof. Dr. Veera Boonjing, International Collage, KMITL, Thailand
	08.50-09.10	SS-01	Social Media's Impact on Creative Thought; By Lauren Robinson (University of East London, United Kingdom); Janine Streuli (Royal Academy of Dance, United Kingdom); Antonio Rei Fidalgo (University of East London, United Kingdom)	1570503230	Exudate Extraction from Fundus Images; By Vasanthi Satyananda (Atria Institute of Technology, India); Narayanaswamy K V (Atria Institute of Technology, India); Karibasappa K (Dayanand Sagar University, India)
	09.10-09.30	SS-02	The roles of color lightness and saturation in inducing the perception of miniature faking; By Kun Qian (Kyushu University, Japan); Kayo Miura (Kyushu University, Japan)	1570503756	Unsupervised Learning Hash for Content-Based Audio Retrieval Using Deep Neural Networks; By Petcharat Panyapanuwat (King Mongkut's University of Technology North Bangkok, Thailand); Suwatchai Kamolsantiroj (King Mongkut's University of Technology North Bangkok, Thailand); Luepol Pipanmaekaporn (King Mongkut's University of Technology North Bangkok, Thailand)
	09.30-09.50	SS-03	Winners Do Not Stop Gambling, but Become Reckless Gamblers; By Daiki Taoka (Kyoto University, Japan); Atsunori Ariga (Hiroshima University, Japan)	1570503849	Knowledge Systematization of Heat Source Systems for Energy Reduction of Industrial Buildings; By Takamasa Narabayashi (Kyushu Institute of Technology, Japan); Masanobu Umeda (Kyusyu Institute of Technology, Japan); Yuki Matsunami (Takasago Thermal Engineering Co., Ltd., Japan); Hitoshi Yonezawa (Takasago Thermal Engineering Co., Ltd., Japan); Katsuhiko Shibata (Takasago Thermal Engineering, Japan)
	09.50-10.10	SS-04	Local Features in Angry Faces Capture Attention in Children with Autism Spectrum Disorders Exhibiting Local-Biased Perceptual Characteristics; By Tomoko Isomura (Waseda University, Japan); Shinno Ogawa (Kyoto University, Japan); Nobuo Masataka (Kyoto University, Japan)	1570503853	Study of Detectors with Noise Predictor for High Areal Density BPMR Systems; By Lin Min Min Myint (Shinawatra University, Thailand); Pornchai Supnithi (King Mongkut's Institute of Technology Ladkrabang, Thailand)
	10.10-10.30	SS-05	Color-shape association in Chinese people; By Na Chen (Waseda University, Japan); Xiaofeng Jiang (Soochow University, China); Katsumi Watanabe (Waseda University, Japan)	1570503924	User Experience- and Design-oriented Virtual Product Prototyping System; By SangHun Nam (Seoul Media Institute of Technology, South Korea); Ginam Ko (PlaceB Inc, South Korea); Kyoo-Won Suh (Hallym University, South Korea); JoungHuem Kwon (Koreatech, South Korea)
	10.30-11.00	Break			

		PaperID	Meeting room I Regular: Special Session on Cognitive Science and Human Perception Chair: Prof. Dr. Katsumi Watanabe, Waseda University / the University of Tokyo, Japan and Prof. Dr. Roberto Caldara, University of Fribourg, Switzerland	PaperID	Meeting room II Regular: Computational Intelligence Chair: Assoc. Prof. Dr. Kittichai Lavangnananda, King Mongkut's University of Technology Thonburi, Thailand
January 25, 2019	11.00-11.20	SS-06	How people attribute minds to non-living entities; By Tatsunori Ishii (Waseda University, Japan); Katsumi Watanabe (Waseda University, Japan)	1570503854	Determination of Different Sizes of Partitioning Clusters in a Highly Connected Graph; By Kittichai Lavangnananda (King Mongkut's University of Technology Thonburi, Thailand); Chidchanok Panyarit (King Mongkut's University of Technology Thonburi, Thailand)
	11.20-11.40	SS-07	Human-human chain of moral disgust; By Ayumi Ikeda (Kyushu University, Japan); Yuki Yamada (Kyushu University, Japan)	1570504125	Improved Rerun Particle Swarm Optimization Algorithm with Harmony Search; By Wikrom Phuchan (King Mongkut's Institute of Technology Ladkrabang, Thailand); Boontee Kruatrachue (King Mongkut's Institute of Technology Ladkrabang, Thailand); Kritawan Siriboon (King Mongkut's Institute of Technology Ladkrabang, Thailand)
	11.40-12.00	SS-08	Go/No-Go Saccadic Reaction Times Towards Visual Field Targets differ between athletes and nonathletes; By Nayla Sokhn (University of Fribourg, Switzerland); Antoine Wuilleret (University of Fribourg, Switzerland); Roberto Caldara (University of Fribourg, Switzerland)	1570507406	Myeloma Cell Detection In Bone Marrow Aspiration Using Microscopic Images; By Samabia Tehsin (Bahria University, Islamabad Campus, Pakistan); Sikandar Zameer (Bahria University, Islamabad Campus, Pakistan); Shahela Saif (Bahria University, Islamabad Campus, Pakistan)
	12.00-13.00	Lunch			

		PaperID	Meeting room I Regular: Special Session on Image Processing, Computer Vision, Human Perception, Knowledge- based System and its Applications Chair: Dr.Montri Phothisonothai, International Collage, KMITL, Thailand	PaperID	Meeting room II Regular: Intelligent Applications Chair: Asst. Prof. Dr. Suwana Rasmeguan, Burapha University, Thailand
January 25, 2019	13.00-13.20	SS-09	Change-Point Estimation and Testing for Brain Functional Connectivity Networks; By Jaehee Kim (Duksung Women's University, South Korea)	1570507241	Screening Tool for Autistic Children; By Rivindu Wickramarachchi (Sri Lanka Institute of Information Technology, Sri Lanka); Vindula Tittagalla (Sri Lanka Institute of Information Technology, Sri Lanka); Chamika Chandrarathne (Sri Lanka Institute of Information Technology, Sri Lanka); Dilshan Nanayakkara (Sri Lanka Institute of Information Technology, Sri Lanka); Pradeepa Samarasinghe (Sri Lanka Institute of Information Technology, Sri Lanka); Pasangi Rathnayake (Sri Lanka Institute of Information Technology, Sri Lanka); Nadeesa Pemadasa (Sri Lanka Institute of Information Technology, Sri Lanka)
	13.20-13.40	SS-10	Image Based Phishing Detection Using Transfer Learning; By Thanathorn Phoka (Naresuan University, Thailand); Phisetphong Suthaphan (Naresuan University, Thailand)	1570507384	Risks in the Eyes of Tourists: A Survey Study on Perceived Thai Tourism Risks; By Nittaya Srimee (Chulalongkorn University, Thailand); Nagul Cooharojananone (Chulalongkorn University, Thailand); Achara Chandrachai (Chulalongkorn University, Thailand)
	13.40-14.00	SS-11	3D Semantic Segmentation of Large-Scale Point-Clouds in Urban Areas Using Deep Learning; By Chakri Lowphansirikul (Mahidol University, Thailand); Kyoung-Sook Kim (National Institute of Advanced Industrial Science and Technology, Japan); Poliyapram Vinayaraj (National Institute of Advanced Industrial Science and Technology, Japan); Suppawong Tuarob (Mahidol University, Thailand)	1570505815	Detecting Text in Manga using Stroke Width Transform; By Boonyarith Piriyothinkul (King Mongkut's Institute of Technology Ladkrabang, Thailand); Kitsuchart Pasupa (King Mongkut's Institute of Technology Ladkrabang, Thailand); Masanori Sugimoto (Hokkaido University, Japan)
	14.00-14.20	SS-12	Integrated Human-Machine Interaction System: ERP-SSVEP and Eye Tracking Based Technologies; By Montri Phothisonothai (King Mongkut's Institute of Technology Ladkrabang, Thailand); Suchada Tantisatirapong (Srinakharinwirot University, Thailand)	1570507394	An FPGA Based Approach For People Counting Using Image Processing Techniques; By Ibtihaj Ahmad (National University of Sciences and Technology, Pakistan); Zain Ul Islam (Foundation University Islamabad, Pakistan); Fahim Ullah (National University of Sciences and Technology, Pakistan); Muhammad Abbas Hussain (National University of Sciences and Technology, Pakistan); Shahid Nabi (National University of Sciences and Technology, Pakistan)
	14.20	Closing Ceremony			
January 26, 2019	08.30-09.00	Registration			
	09.00-12.00	Thailand Research Consortium for Informatics Field Trips (Prince of Songkla University, Phuket Campus)			
	12.00	Conclude Consortium			