



Conference Program

the 2020 - 12th International Conference on Knowledge and Smart Technology (KST)

Amari Pattaya, Chonburi, Thailand

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

January 29 - February 1, 2020

January 29, 2020	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 @Amari Pattaya, Chonburi, Thailand	
January 30, 2020			
	08.00-08.45	Registration	
	08.45-09.00	Opening Ceremony	
	09.00-09.50	Keynote-I	Progress and Challenges in Compressible and Learnable Image Encryption for Privacy-Preserving Image Encryption and Machine Learning Prof. Dr. Hitoshi Kiya (Tokyo Metropolitan University, Japan)
			Keynote-II
	09.50-10.40	Break	
	10.40-11.00	Break	
		PaperID	Meeting room I Regular: Intelligent Applications Chair: Prof. Dr. El-ghazali Talbi
		PaperID	Meeting room II Regular: Emerging Intelligent Technologies Chair: Prof. Dr. Pascal Bouvry
	11.00-11.20	1570596414	Improved Adaptive Spectrum Scale-Space in Frequency Domain for Saliency Detection By Taravichet Titijaronroj (King Mongkut's Institute of Technology Ladkrabang, Thailand); Jenjira Jaemsiri and Jaratsri Rungrattanaubol (Naresuan University, Thailand)
	11.20-11.40	1570597204	#Walangpasok on Twitter: Natural language processing as a method for analyzing tweets on class suspensions in the Philippines By Jeffrey Rosario Ancheta (De La Salle University, Philippines); Ken Gorro (University of San Carlos, Philippines); Mark Anthony Uy (University of the East, Philippines)
	11.40-12.00	1570599599	Development of AR Learning Assistance Tool for Clay-Sculpting 3D Model By Phum Natakuaithung and Worapan Kusakunniran (Faculty of ICT, Mahidol University, Thailand)
	12.00-13.00	Lunch & Free Discussion	

		PaperID	Meeting room I Regular: Computational Intelligence Chair: Asst. Prof. Dr. Pusadee Seresangtakul Asst. Prof. Dr. Khamron Sunat
		PaperID	Meeting room II Regular: Computational Intelligence Chair: Asst. Prof. Dr. Sirapat Chiewchanwattana Asst. Prof. Dr. Chitsutha Soomlek
January 30, 2020	13.00-13.20	1570590110	Dzongkha Word Segmentation using Deep Learning By Yeshe Jamtsho and Paisarn Muneesawang (Naresuan University, Thailand)
	13.20-13.40	1570596908	Regional Covariance Matrix-Based Two-Dimensional PCA for Face Recognition By Taravichet Titijaronroj (King Mongkut's Institute of Technology Ladkrabang, Thailand); Kangsadan Hancherngchai and Jaratsri Rungrattanaubol (Naresuan University, Thailand)
	13.40-14.00	1570596980	Data Mining Based Prediction of Malnutrition in Afghan Children By Ziaullah Momand (King Mongkut's University of Technology Thonburi, Thailand); Pornchai Mongkolnam, Pichai Kositpanthavong and Jonathan H. Chan (King Mongkut's University of Technology Thonburi, Thailand)
	14.00-14.20	1570597506	An Outperforming Hybrid Discrete Particle Swarm Optimization for Solving the Timetabling Problem By Thanawat Unprasertporn (King Mongkut's University of Technology North Bangkok, Thailand); Dome Lohpetch (King Mongkut's University of Technology North Bangkok (KMUTNB), Thailand)
	14.20-14.44		Poster Presentation : #1570590779; #1570605125; #1570605507; #1570605508; #1570605742; #1570591114
	14.44-15.00	Break & Poster Discussion	

		PaperID	Meeting room I Regular: Computational Intelligence Chair: Assoc. Prof. Dr. Kittichai Lavangnananda	PaperID	Meeting room II Regular: Intelligent Applications Chair: Assoc. Prof. Dr. Theekapun Charoengpong
January 30, 2020	15.00-15.20	1570605622	Real-Time Notification System of Moving Obstacles in Vehicle-Camera Images Using SSD and Safe Zones By Varin Chouvatut and Panick Chiewcharn (Chiang Mai University, Thailand)	1570599684	Facial Movement Interface for Mobile Devices Using Depth-sensing Camera By Chatsopon Deepateep and Pongsagon Vichitvejpaisal (Thammasat University, Thailand)
	15.20-15.40	1570597608	A Profit Maximization Lot-sizing and Supplier Selection Problem Under Price Discount with Lost Sale By Sakada Srun and Thanakorn Naenna (Mahidol University, Thailand)	1570602077	Capital Cost based Planning and Optimal Sizing of a Small Community Smart Microgrid By Maneesh Kumar and Barjeev Tyagi (Indian Institute of Technology Roorkee, India)
	15.40-16.00	1570605969	Anomaly Detection based on GS-OCSVM Classification By Kittikun Kittidachanan (Faculty of Science, Chiang Mai University, Thailand); Phimpaka Taninpong (CMU, Thailand); Watha Minsan and Donlapark Pornnoppaath (Faculty of Science, Chiang Mai University, Thailand)	1570604345	Evaluation of Physical Exercise for Osteoarthritis of the Knee through Image Processing Technique By Theekapun Charoengpong (Srinakharinwirot University, Thailand); Supiya Charoensriwath (National Electronics and Computer Technology Center, Thailand); Siriporn Pattamaset (Srinakharinwirot University, Thailand)
	16.00-16.20	1570608864	Deduplicaton-aware I/O Buffer Management in the Linux Kernel for Improved I/O Performance By Song Jiang (University of Texas, Arlington, USA)	1570604352	A Method for Detecting Lines on Soccer Field by Color of Grass Variation By Theekapun Charoengpong, Thanaphon Rianthong and Srisupang Thewsuan (Srinakharinwirot University, Thailand); Kanjana Pattanaworapan (Bangkok University, Thailand)
	16.20-16.40	1570605872	Fast Special-Purposed Factoring Algorithm by using Modular Multiplication By Kritsanapong Somsuk (Faculty of Technology, Udonthani Rajabhat Universit, Thailand); Chalida Sanemueang (Office of Academic Resources and Information Technology, Thailand)	1570605189	Detection of Na2S2O4 bleaching agent contaminated in bean sprout using an electronic nose By Tanthip Eamsaard (Mahidol University, Thailand)
	16.40-17.00	Poster Discussion / Free discussion			
	16.30-18.00	Steering Committee Meeting & International Consortium in Informatics Meeting			
	18.00-20:30	Welcome Reception / Banquet			

January 31, 2020	08.30-09.00	Registration			
		PaperID	Meeting room I Special Session on Cognitive Science and Human Perception Chair: Prof. Dr. Katsumi Watanabe	PaperID	Meeting room II Regular: Intelligent Computer Networks and Systems Chair: Asst. Prof. Dr. Krisana Chinnasarn Asst. Prof. Dr. Paramate Horkeaw
	09.00-09.20	1570612755	Self-initiation of visual object motion has little influence on visual mislocalization by auditory stimuli By Hiroyuki Oishi and Katsumi Watanabe (Waseda University, Japan)	1570605709	Efficacy of Positional Therapy Prototype for Patients with Positional Obstructive Sleep Apnea By Shongpun Lokavee (Materials Science and Engineering Programme, Thailand); Teerakiat Kercharoen (Mahidol University, Thailand); Visasiri Tantrakul, Janejira Pengjiam and Worakot Suwansathit (Ramathibodi Hospital, Mahidol University, Thailand)
	09.20-09.40	1570612756	Size-numerosity interaction depends retinal rather than perceived size By Saki Takao and Katsumi Watanabe (Waseda University, Japan)	1570597287	An Experimental Study of Dynamic Capabilities in a Wireless Body Area Network By Dujdow Buranapanichkit (Prince of Songkla University, Thailand); Apidet Booranawong (Faculty of Engineering, Thaksin University, Thailand); Pitchakron Thippun (Prince of Songkla University, Thailand)
	09.40-10.00	1570612757	Accounting for Private Taste:Facial shape analysis of Attractiveness and Inter-individual Variance By Takumi Tanaka, Jan Mikuni and Daisuke Shimane (Keio University, Japan); Koyo Nakamura and Katsumi Watanabe (Waseda University, Japan)	1570605559	Resource Balanced Service Chaining in NFV-enabled Inter-Datacenter Elastic Optical Networks By Atefeh Khatiri and Ghasem Mirjalily (Yazd University, Iran)
	10.00-10.20	1570590770	How to Enjoy Watching One-Sided Sport Games By Tomoyuki Maekawa and Kazuhiro Ueda (The University of Tokyo, Japan)	1570590383	Low Cost Smart House Implementation with Sensory Information Analysis and Face Recognition By Adnan Yazici (CS-SST, Nazarbayev University, Kazakhstan); Enver Ever (Middle East Technical University Northern Cyprus Campus, Turkey); Serik Zhilibayev, Aibek Ziyashev, Altyn Zhelambayeva and Aidar Yessembayev (Nazarbayev University, Kazakhstan)
	10.20-10.40	Break			

		PaperID	Meeting room I Special Session on Cognitive Science and Human Perception Chair: Prof. Dr. Katsumi Watanabe Prof. Dr. Roberto Caldara	PaperID	Meeting room II Regular: Intelligent Applications Chair: Asst. Prof. Dr. Krisana Chinnasarn Asst. Prof. Dr. Paramate Horkeaw
January 31, 2020	10.40-11.00	1570612752	Attractive faces are rewarding irrespective of face category: Motivation in viewing attractive faces in Japanese viewers By Maiko Kobayashi, Koyo Nakamura and Katsumi Watanabe (Waseda University, Japan)	1570605450	Improving Estimation of Conditional Probability for Determining Importance of a Bigram By Toshiki Aoba, Masato Kikuchi, Mitsuo Yoshida and Kyoji Umemura (Toyohashi University of Technology, Japan)
	11.00-11.20	1570612753	Deciding when to start in 100-m sprints at Athletic World Championships By Kae Mukai and Ryoji Onagawa (University of Tokyo, Japan); Takumi Tanaka (Keio University, Japan); Katsumi Watanabe (Waseda University); Kazutoshi Kudo (University of Tokyo, Japan)	1570605585	Intelligent Distributed Customer Anticipation Approach for Taxi Routing Optimization By Pochara Sangtunchai (Mahidol University, Thailand); Kyoung-Sook Kim and Taehoon Kim (AIST, Japan); Thanapon Noraset and Suppawong Tuarob (Mahidol University, Thailand)
	11.20-11.40	1570612750	Spatial-Musical Association of Response Codes Based on Trained Visual Shapes By Qi Jiang and Atsunori Ariga (Hiroshima University, Japan)	1570605658	Implementation of acid concentration model based on MSPRNN for a steel pickling process By Dong Woo Kim and PooGyeon Park (POSTECH, Korea (South))
	11.40-12.00			1570605444	Online Learning in Presence of Concept Drift in streaming data classification By Kanu Goel (Thapar University Patiala, India)
	12.00-13.00	Lunch			

February 1, 2020	08.30-09.00	Registration			
	09.00-12.00	Thailand Research Consortium in Informatics Meeting			
	12.00	Conclude Consortium			