



Conference Program

2016 - 8th International Conference on Knowledge and Smart Technology (KST)

February 3-6, 2016

Kantary Hill Resort, Chiang Mai Province, Thailand

Organized by Faculty of Informatics, Burapha University, Chonburi, Thailand

February 3, 2016	15.00-17.00	Registration						
	17.00-18.00	Steering & Technical Program Committee Meeting						
	18.00-20:30	Welcome Reception for Steering & Technical Program Committee and Keynote Speaker						
February 4, 2016	07.45-08.35	Registration						
	08.35-09.00	Opening Ceremony / Doi Suthep I						
	09.00-09.50	Keynote-I	Dr. Sun-Hwa Hahn (Korea Institute of Science and Technology Information Daejeon, Korea)					
			Technology Foresight through the Collaboration with Human Expert and Machine Intelligence					
	09.50-10.40	Keynote-II	Professor Philippe Lenca, Julie Soulas and Sofian Berrouiguet (Telecom Bretagne, France)					
			From Sensors and Data to Data Mining for e-Health					
	10.40-11.00	Break						
		PaperID	Doi Suthep I Regular I: Computational Intelligence	PaperID	Doi Suthep II Regular II: Computational Intelligence	PaperID	Doi Nua Regular III: Computational Intelligence	Doi Kham ECTI-CIT Associate Editor Meeting
			Chair: Komate Amphawan, BUU and Khamron Sunat, KKU		Chair: Stefan Vigerske, GAMS, Software GmbH, Germany and Sirapat Chiewchanwattana, KKU, Thailand		Chair: Chakchai So-In, KKU, Thailand, and Pusadee Seresangtakul, KKU, Thailand	Kosin Chamnongthai, KMUTT
	11.00-11.20	1570219510	Optimal Buffer Allocation and Service Rates in Flow Line Production System	1570227338	Comparison Solving Discrete Space on Flower Pollination Algorithm, PSO and GA	1570227752	LARG: Loss Avoidance Technical Trading Rules using Genetic Algorithm	
	11.20-11.40	1570220888	Building a Granular Knowledge Monitor	1570227609	Clustering Analysis on Alumni Data Using Abandoned and Reborn Particle Swarm Optimization	1570229160	Hybrid Ensembles of Decision Trees and Bayesian Network for Class Imbalance Problem	
	11.40-12.00	1570224187	Improved EM Method for Internet Traffic Classification	1570227647	The Application of Social-Spider Optimization for Parameter Improvement in the Łukasiewicz Structure	1570229458	A Coefficient Comparison of Weighted Similarity Extreme Learning Machine for Drug Screening	
	12.00-13.00	Lunch						



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February 4, 2016	PaperID	Doi Suthep I Regular IV: Computational Intelligence	PaperID	Doi Suthep II Regular V: Computational Intelligence & Emerging Intelligent Technologies	PaperID	Doi Nua Matlab Workshop on Computer Vision by Assist. Prof. Dr. Parinya Sanguansat (Panyapiwat Institute of Management, Thailand) Organized by ECTI Thailand Association	Doi Kham ECTI-CIT Associate Editor Meeting	
		Chair: Komate Amphawan, BUU and Khamron Sunat, KKU		Chair: Stefan Vigerske, GAMS Software GmbH, Germany and Athasit Surarer, CU, Thailand		Chair: Pusit Kulkasem and Benchaporn Jantarakongkul, BUU, Thailand	Kosin Chamnongthai, KMUTT	
	13.00-13.20	1570230012	Fast and Accurate Template Averaging for Time Series Classification	1570224006	Improving Noise Estimation with RAPT Pitch Voice Activity Detection Under Low SNR Condition			
	13.20-13.40	1570232299	Face Recognition Using String Grammar Fuzzy K-Nearest Neighbor	1570224150	IT Design Skills Selection for Professional Development			
	13.40-14.00	1570220523	Distance Measurement with Smartphone using Acceleration Model of Hand Movement	1570227096	Semantic Anonymization in Publishing Categorical Sensitive Attributes			
	14.00-14.20	1570222971	Efficiency of Data Mining Models to Predict Academic Performance and a Cooperative Learning Model	1570227177	Greater Kuala Lumpur as a Smart City: A Case Study on Technology Opportunities			
	14.20-14.40	1570223324	Dimension Independent Cosine Similarity for Collaborative Filtering using MapReduce	1570227258	Guessing English Vocabularies: A Game Application for Children on Multiple Mobile Platforms			
	14.40-15.00	Break						



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February 4, 2016	PaperID	Doi Suthep I Regular VI: Intelligent Applications	PaperID	Doi Suthep II Special Session on Digital Science-based Issue Resolution.	PaperID	Doi Nua Matlab Workshop on Computer Vision by Assist. Prof. Dr. Parinya Sanguansat (Panyapiwat Institute of Management, Thailand) Organized by ECTI Thailand Association
		Chair: Komate Amphawan, BUU and Khamron Sunat, KKU		Chair: Seungwoo Lee, KISTI, Korea		Chair: Pusit Kulkasem and Benchaporn Jantarakongkul, BUU, Thailand
	15.00-15.20	1570229040	Extract Semantic Web Knowledge from Wikipedia Tables and Lists	1570224245	A Proposal to Construct Biomedical Triple Collections for the Dementia Research	
	15.20-15.40	1570228413	Japanese Janken Recognition by Support Vector Machine Based on Electromyogram of Wrist	1570228474	Study on Data Center and Data Librarian Role for Reuse of Research Data	
	15.40-16.00	1570218990	Multimedia Based Scoreboard Development of Four Disciplines of Execution for Journal Publication	1570228890	A Method for Analysing Patent Relationships Based on Natural Language Processing Techniques	
	16.00-16.20	1570219169	Current Research Themes in Software Engineering: An Application of Text Mining	1570232667	Optimizing HBase Table Scheme for Marketing Strategy Suggestion	
	16.20-16.40	1570220304	A System for Popular Thai Slang Extraction from Social Media Content with N-Gram Based Tokenization			
	16.40-18.00	The 2nd Meeting of International Consortium in Informatics (ICI Meeting) / Doi Nua				
	18.00-20:30	Welcome Party / Dinner at Doi Suthep I				



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February 5, 2016	08.00-08.45	Registration					
	09.00-09.50	Keynote-III	Professor Dr. Steve Russ (Warwick University, United Kingdom) Human Computing: a New Smart Technology for Learning and Life				
	09.50-10.10	Break					
		PaperID	Doi Suthep I Special Session on Image Processing, Computer Vision, Human Perception, Knowledge-based System and its Applications	PaperID	Doi Suthep II Special Session on Cognitive Science and Human Perception	PaperID	Doi Nua Regular VII: Intelligent Computer Networks and Systems; and Intelligent Applications
			Chair: Montri Phothisonathai and Ukrit Watchareeruetai, KMUTL, Thailand and Theekapun Charoenpong, SWU, Thailand		Chair: Katsumi Watanabe, Waseda University / the University of Tokyo, Japan and Roberto Caldara, University of Fribourg, Switzerland		Chair: Pusit Kulkasem, BUU, Thailand and Stefan Vigerske, GAMS Software GmbH, Germany
	10.10-10.30	1570220727	Development of Facial Expression Recognition by Significant Sub-region	1570224243	Facilitating Education Instruction Using Gesture Control	1570227702	Distributed Storage Design for Encrypted Personal Health Record Data
	10.30-10.50	1570223596	Human Personality toward Digital Gameplay Analytics for Edutainment-based Instructional Design	1570224662	Effects of Synchronous Motion and Spatial Alignment on Animacy Perception	1570227718	Flexible Interval Representation System in Negative Binary Base
	10.50-11.10	1570224788	The Method to Read Nutrient Quantity in Guideline Daily Amounts Label by Image Processing	1570227700	How People Perceive Different Robot Types	1570227737	Energy Efficient Density-based Clustering Technique for Wireless Sensor Network
	11.10-11.30	1570227640	Automated Detection of Plasmodium Falciparum from Giemsa-Stained Thin Blood Films	1570227726	Gender Differences in Visuomotor Sequence Learning	1570221350	3D Reconstruction and Feature Extraction for Agricultural Produce Grading
	11.30-11.50	1570227651	Automated Segmentation of Erythrocytes from Giemsa-Stained Thin Blood Films	1570227736	Category Specific Knowledge Modulate Capacity Limitations of Visual Short-Term Memory	1570227283	Investigating Ultraharmonic Modeling from Ultrasound Echo Signal with SISO Volterra Filter
	11.50-13.00	Lunch					



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February 5, 2016		PaperID	Doi Suthep I Special Session on Image Processing, Computer Vision, Human Perception, Knowledge-based System and its Applications	PaperID	Doi Suthep II Special Session on Cognitive Science and Human Perception and Special Session on Empirical Modelling	PaperID	Doi Nua Regular VIII: Intelligent Applications	
			Chair: Montri Phothisonathai and Ukrit Watchareeruetai, KMUTL, Thailand and Theekapun Charoenpong, SWU, Thailand		Chair: Katsumi Watanabe, Waseda University / the University of Tokyo, Japan and Roberto Caldara, University of Fribourg, Switzerland		Chair: Pusit Kulkasem, BUU, Thailand and Stefan Vigerske, GAMS Software GmbH, Germany	
	13.00-13.20	1570227741	A Computer Vision Based Vehicle Detection and Counting System	EM-01	Experiences with Empirical Modelling Tools in Schools in Greece and Thailand	1570227855	On the Finding Proper Cache Prediction Model Using Neural Network	
	13.20-13.40	1570227746	RTS Terrain Analysis: An Axial-based Approach for Improving Chokepoint Detection Method	EM-02	Computing Applications from an Empirical Modelling Perspective: Progress, Projects and Prospects	1570229141	Improvement in Detection of Abandoned Object by Pan-Tilt Camera	
	13.40-14.00	1570229062	Leaf Identification Using Apical and Basal Features	EM-03	Human Learning and Machine Learning: Building Bridges or Integration?	1570229396	Motor Insurance Knowledge Management in AIML Format	
	14.00-14.20	1570229469	Combining Deep Convolutional Networks and SVMs for Mass Detection on Digital Mammograms	1570227742	Memory Distortion of Depth of a Visual Stimulus for Perception and Action	1570226710	CubeSat Image Transmission in JPEG Compression: An Experiment on High Altitude Platform	
	14.20-15.40		Break					



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February 5, 2016		PaperID	Doi Suthep I Special Session on Image Processing, Computer Vision, Human Perception, Knowledge-based System and its Applications	PaperID	Doi Suthep II Special Session on Cognitive Science and Human Perception	PaperID	Doi Nua Regular VIII: Intelligent Applications	Doi Kham Empirical Modelling Workshop
			Chair: Montri Phothisonathai and Ukrit Watchareeruetai, KMUTL, Thailand and Theekapun Charoenpong, SWU, Thailand		Chair: Katsumi Watanabe, Waseda University / the University of Tokyo, Japan and Roberto Caldara, University of Fribourg, Switzerland		Chair: Komate Amphawan, BUU, Thailand and Stefan Vigerske, GAMS Software GmbH, Germany	Chair: Meurig Beynon and Steve Russ (Warwick University, England); Antony Harfield (Naresuan University, Thailand)
	14.40-15.00	1570229681	Robust Tracking Algorithm with Designed Marker for Limited-Power Computer	1570228330	General Trust is Correlated with Attentional Orientation Triggered by Gaze Direction	1570226724	Suitable Altitude for Long-Operated Communication High Altitude Balloon with Experimental Flights	Introducing the CONSTRUCT! environment - a solar system construal
	15.00-15.20	1570236890	Target Selection Based on Gaze Likelihood in Gaze Input Interface	1570228825	Measuring Force of Game Information in the Brain: Linking Game Refinement Theory and Neuroscience	1570229460	Paragraph2Vec-Based Sentiment Analysis on Social Media for Business in Thailand	More about Construals - the purse construal & making a construal from scratch as 'making connections' - vending mc
	15.20-15.40	1570236892	Classification of Acute Leukemia Using CD Markers	1570236889	Effects of Visual Flickering Stimuli for Event-Related Potential Recording	1570229639	An Adjustment Strategy On Multi-Session EEG Data for Online Left/Right Hand Imagery Classification	Making Construals and Programming - Giving Change
	15.40-16.40							Other examples of construals: hex-colouring and MENACE
	16.40	Closing the Conference Ceremony						
February 6, 2016	08.30-09.00	Registration						
	09.00-12.00	Thailand Research Consortium for Informatics Field Trips (Chiang Mai University and Maejo University)						
	12.00	Closing the Consortium Ceremony						