



Tentative Program

the 2022 - 14th International Conference on Knowledge and Smart Technology (KST)

Faculty of informatics, Burapha University, Chonburi, Thailand

January 26 - 29, 2022

January 26, 2022	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 @The Tide Resort, Bangsean Beach, Chonburi, Thailand
January 27, 2022	08.00-09.00		Registration
	09.00-09.15		Opening Ceremony
	09.20-10.20	Keynote-I	Cases of Informatics Efforts to Support COVID-19 Decision Making in Korea Prof. Dr. Insung Ahn (University of Science & Technology, Korea)
	10.20-10.40		Break
	10.40-11.40	Keynote-II	Quantum Computation in Artificial Intelligence Assoc.Prof. Dr. Sanpawat Kantabutra (Chiang Mai University, Thailand)

		PaperID	Meeting room I Regular: Computational Intelligence Chair: Assoc. Prof. Dr. Sansanee Auephanwiriyaikul, CMU	PaperID	Meeting room II Regular: Emerging Intelligent Technologies Chair: Asst. Prof. Dr. Paramate Horkaew, SUT	PaperID	Meeting room III Regular: Intelligent Computer Networks and Systems Chair: Prof. Dr. Chakchai So-In, KKU
January 27, 2022	13.00-13.20	1570762585	Developing an Automatic Speech Recognizer For Filipino with English Code-Switching in News Broadcast By Mark Louis S. Lim, Aaron John Xu, Charles Stepven Lin and Zishi Chen (De La Salle University, Philippines); Ronald M. Pascual (De La Salle University & FEU-East Asia College, Philippines)	1570762020	Beyond fear go viral: A machine learning study on infodemic detection during covid-19 pandemic By Tipajin Thaipisutikul (Mahidol University & MU, Thailand); Timothy Shih and Avirmed Enkhbat (National Central University, Taiwan); Wisnu Aditya (National Central University & University of Brawijaya, Taiwan); Huang-Chia Shih (Yuan Ze University, Taiwan); Pattanasak Mongkolwat (Mahidol University, Thailand)	1570761163	Blockchain for Transport, Performance Simulations of Blockchain Network for Emission Monitoring By Dermot O OBrien (Joint Research Centre of the European Commission, Italy); Georgios Fontaras, Igor Nai Fovino and Ioannis Kounellis (European Commission, DG Joint Research Centre, Italy); Vasileios Christaras (Joint Research Centre of the European Commission, Italy)
	13.20-13.40	1570772197	Measurement of Tongue Motion using Optical Flows on Segmented Areas By Worapan Kusakunniran, Kittinun Aukkapinyo and Punyanuch Borwarnginnn (Mahidol University, Thailand); Thanandon Imaromkul (Faculty of ICT, Mahidol University, Thailand); Kittikhun Thongkanchorn and Disathon Wattanadhirach (Mahidol University, Thailand); Sophon Mongkolluksamee (Srinakharinwirot University, Thailand); Ratchainant Thammasudjarit, Panrasee Ritthipravat, Pimchanok Tuakta and Paitoon Benjapornlert (Mahidol University, Thailand)	1570771716	Comparison Analysis of Data Augmentation using Bootstrap, GANs and Autoencoder By Mukrin Nakhwan (Prince of Songkla University, Thailand)	1570774482	VAPE-Bridge: Bridging OpenVAS Results for Automating Metasploit Framework By Kankanok Vimala (Thammasat University, Thailand); Somchart Fugkeaw (Sirindhorn International Institute of Technology, Thammasat University, Thailand)
	13.40-14.00	1570772426	Continuity of line detection methods based on the Radon transform By Pat Vatiwutipong (Kamnoetvidya Science Academy, Thailand)	1570774143	Smart Education Using Machine Learning for Outcome Prediction in Engineering Course By Worawat Lawanont and Anantaya Timtong (Suranaree University of Technology, Thailand)	1570774992	Unsupervised and Ensemble-based Anomaly Detection Method for Network Security By Dong Hun Yang (University of Science and Technology, Korea (South)); Ikje Choi (Korea Institute of Science and Technology Information, Korea (South)); Myungwon Hwang (Korea Insititute of Science and Technology Information (KISTI), Korea (South))
	14.00-14.20	1570772435	Loan Default Risk Prediction Using Knowledge Graph By Md. Nurul Alam and Muhammad Masroor Ali (Bangladesh University of Engineering and Technology, Bangladesh)	1570775398	Obstacles detection for electric wheelchair with Computer Vision By Phenphitcha Patthanajitsilp and Prabhas Chongstitvatana (Chulalongkorn University, Thailand)	1570776401	Neural Networks for Real-Time Digital Emulation of Guitar Speaker Cabinet Impulse Response By Sorawat Chivapreecha (Faculty of Engineering, King's Monkut Institute of Technology Ladkrabang, Thailand); Tantep Sinjanakhom (King Mongkut's Institute of Technology Ladkrabang, Thailand)
	14.20-14.40	1570772538	An Improved Face Mask-Aware Recognition System Based on Deep Learning By Chih-Yang Lin, Amornthep Rojanasarit and Kanatip Prompol (Yuan Ze University, Taiwan); Tipajin Thaipisutikul (Mahidol University & MU, Thailand); Chi-Wen Lung (Asia University, Taiwan)	1570775557	A Novel Relational Deep Network for Single Object Tracking By Pimpa Cheewaparakobkit (National Central University, Taiwan); Chih-Yang Lin (Yuan Ze University, Taiwan); Hung Chun and Timothy Shih (National Central University, Taiwan)	1570776456	RaaS (Robot-as-a-Service) focusing on the human-robot collaboration in industrial sites By Esther Hahyeon Kim and Chen Li (University of Aalborg, Denmark)
	14.40-15.00	Break & Free Discussion					

		PaperID	Meeting room I Regular: Computational Intelligence Chair: Asst. Prof. Dr. Khamron Sunat, KKU	PaperID	Meeting room II Regular: Emerging Intelligent Technologies Chair: Dr. Athitha On-uean, BUU	PaperID	Meeting room III Regular: Computational Intelligence Chair: Assoc. Prof. Dr. Kittichai Lavangnananda, KMUTT
January 27, 2022	15.00-15.20	1570773145	Efficient Image Embedding for Fine-Grained Visual Classification By Soranan Payatuporn (Chulalongkorn University, Thailand)	1570776339	SIREN! Detecting Burmese Hate Speech Comments on Social Media By Khin Me Me Chit (Koe Koe Tech Foundation Inc, New York, USA); Yi Yi Chan Myae Win Shein (Koe Koe Tech Foundation Inc, USA); Aye Hninn Khine (Prince of Songkla University, Thailand); Wai Yan (Koe Koe Tech Foundation Inc, USA)	1570775071	Evolution of Neural Collaborative Filtering for Recommender Systems By Alexandros I Metsai (My Company Projects, Greece); Konstantinos Karamitsios and Konstantinos Kotrotsios (My Company Projects O. E., Greece); Periklis Chatzimisios (International Hellenic University (Greece), Greece & University of New Mexico (USA), USA); George Stalidis and Kostas Goulianas (International Hellenic University, Greece)
	15.20-15.40	1570773763	Unsupervised concept identification from a large corpus of research documents By Watcharachat Plangsri, Nalina Phisanbut and Punpiti Piamsa-nga (Kasetsart University, Thailand)	1570776373	Comparison of Clustering Techniques for Thai Mutual Funds Fee Dataset By Jakkaphan Whasphuttitit and Watchareewan Jitsakul (King Mongkut's University of Technology North Bangkok, Thailand); Thongchai Kaewkiriya (Panyapiwat Institute of Management, Thailand)	1570775341	Explainable Digital Currency Candlestick Pattern AI Learner By Jun-Hao Chen (National Taiwan University, Taiwan); Cheng-Han Wu (Department of Economics, Soochow University, Taiwan); Yun-Cheng Tsai (School of Big Data Management Soochow University, Taiwan); Samuel Yen-Chi Chen (Brookhaven National Laboratory, USA)
	15.40-16.00	1570773866	Exploring Machine Learning Pipelines for Raman Spectral Classification of COVID-19 Samples By Somrudee Deepaisarn, Chanvichet Vong and Maneesha Perera (Sirindhorn International Institute of Technology, Thammasat University, Thailand)	1570776443	Comparison of Prediction Models for Road Deaths On Road Network By Watchareewan Jitsakul and Thaninthorn Whasphuthisit (King Mongkut's University of Technology North Bangkok, Thailand)	1570776169	Traffic Light and Crosswalk Detection and Localization Using Vehicular Camera By Somkiat Wangsiripitak (KMUTT, Thailand); Keisuke Hano (King Mongkut's Institute of Technology Ladkrabang, Japan); Shigeru Kuchii (National Institute of Technology, Japan)
	16.00-16.20	1570774139	Development of Anomaly Detection Model for Welding Classification Using Arc Sound By Phongsin Jirapipattanaporn and Worawat Lawanont (Suranaree University of Technology, Thailand)	1570776474	Electronic Nose for Analysis of Coffee Beans Obtained from Different Altitudes and Origin By Wandee Aunsa-Ard (Mahidol University, Thailand)	1570776309	A Hybrid Deep Neural Network for Classifying Transportation Modes based on Human Activity Vibration By Sakorn Mekruksavanich and Ponnipa Jantawong (University of Phayao, Thailand); Ilsun You (Soonchunhyang University, Korea (South)); Anuchit Jitpattanakul (KMUTT, Thailand)
	16.20-16.40	1570775060	GSAP: A Hybrid GRU and Self-Attention Based Model for Dual Medical NLP Tasks By Huey-Ing Liu (Fu-Jen Catholic University, Taiwan); Meng-Wei Chen, Wei-Chun Kao, Yao-Wen Yeh and Cheng-Xuan Yang (Fu Jen Catholic University, Taiwan)	1570776545	A Deep Learning Based Spatial-Temporal Data: Plant-Growing Case Study By Barakatullah Azizi (King Mongkut's University of Technology Thonburi, Thailand); Narongrit Waraporn (KMUTT, Thailand); Murray Ayres (King Mongkut's University of Technology Thonburi, Thailand)	1570776477	Detection of Mental State from EEG Signal Data: An Investigation with Machine Learning Classifiers By Ahnaf Akif Rahman, Muntequa Imtiaz Siraji and Lamim Ibtisam Khalid (IUT, Bangladesh); Fahim Faisal, Mirza Muntasir Nishat and Mohammad Rakibul Islam (Islamic University of Technology, Bangladesh); Nchouwat Ndumgouo Ibrahim moubarak (IUT, Bangladesh)

January 28, 2022	08.30-09.00	Registration					
		PaperID	Meeting room I	PaperID	Meeting room II	PaperID	Meeting room III
	09.00-12.00		Steering Committee Meeting & International Consortium in Informatics Meeting		ETAT: Educational Training Center for Automation in Thailand Workshop		Video Analytics Platform for Surveillance
	12.00-13.00	Lunch					
	13.00-16.00				ETAT: Educational Training Center for Automation in Thailand Workshop		Video Analytics Platform for Surveillance

January 29, 2022	08.30-09.00	Registration					
		PaperID	Meeting room I	PaperID	Meeting room II	PaperID	Meeting room III
	09.00-12.00		Thailand Research Consortium in Informatics Meeting		ETAT: Educational Training Center for Automation in Thailand Workshop		
	12.00-13.00	Lunch					
	13.00-16.00				ETAT: Educational Training Center for Automation in Thailand Workshop		