

International Conference on Digital Signal Processing

Day 2: March 20, 2014

DSP1: Biomedical Signal Processing and Pattern Recognition			
Chair: Peerapol Yuvapoositanon, Mahanakorn University of Technology, Thailand			
Room: Venda 2, 8:40-10.20			
Time	Paper ID	Title	Authors
8:40-9:00	0111	Human Postural Stability Model and Artificial Neural Network for Prediction the Center of Pressure	Thunyanoot Prasertsakul, Yodchanan Wongsawat and WarakornCharoensuk, Mahidol University, Thailand
9:00-9:20	0017	Acute Leukemia Classification by Using SVM and K-Means Clustering	Jakkrich Laosai and Kosin Chamnongthai, King Mongkut's University of Technology Thonburi, Thailand
9:20-9:40	DSP-INV004	Trends on BCI-based Neurofeedback Device for Physical and Mental Rehabilitations	Yodchanan Wongsawat, Mahidol University, Thailand
9:40-10:00	0011	Rotation Invariant Texture Recognition by using Neighbor Discriminant Feature Transform and Reinforcement Learning	Nattapong Jundang and Surachai Ongkittikul, Mahanakorn University of Technology, Thailand
10:00-10:20	0174	Detection of abnormal regions of precancerous lesions in Digitised Uterine Cervix images	Abhishek Das ¹ , Avijit Karb ² and Debasis Bhattacharyya ² , ¹ Tripura University (A Central University), India, ² Jadavpur University, SDM Hospital, India

DSP2: Image and Video Processing**Chair: Phaophak Sirisuk, King Mongkut's Institute of Technology Ladkrabang, Thailand****Room: Lotus, 13:30-15.10**

Time	Paper ID	Title	Authors
13:30-13:50	0056	Cluster Classification Characteristics of the Critical Principal Image Histogram Component	Bongkarn Homnan ¹ and Watit Benjapolakul ² , ¹ Dhurakij Pundit University, Thailand, ² Chulalongkorn University, Thailand
13:50-14:10	0026	Performance Analysis on Multi-frame Image Super-Resolution via Sparse Representation	Chairat Kraichan and Suree Pumrin, Chulalongkorn University, Thailand
14:10-14:30	DSP-INV005	An introduction to Compressive Sensing for Digital Signal Reconstruction and its implementation on Digital Image Reconstruction	Ha Pham, Wilaiporn Lee and Vorapoj Patanavijit, Assumption University, Thailand
14:30-14:50	0093	Multiple Objects Monitoring Based on 3D Information from Multiple Cameras	Thun Chitmaitredejsakul ¹ , Sanparith Marukatat ² , Surapa Thiemjarus ² and Gun Srijuntongsiri ¹ , ¹ Sirindhorn International Institute of Technology, Thailand, ² National Electronics and Computer Technology Center, Thailand
14:50-15:10	0116	Development of Optical Sensor Device for Pedobarograph Acquisition	Yuttapong Aunhathaweesup, Adisorn Leelasantitham and Supaporn Kiattisin, Mahidol University, Thailand
15.10-15.30	DSP-INV006	Enhancement image using the resize scheme for texture reconition	Surachai Ongkittikul Mahanakorn University of Technology

DSP3: Adaptive Signal Processing and Pattern Recognition**Chair: Vorapoj Patanavijit, Assumption University, Thailand****Room: Lotus, 15:50-17.50**

Time	Paper ID	Title	Authors
15:50-16:10	DSP-INV001	Fast Computation of Look-Ahead Rao-Blackwellised Particle Filter in SLAM	Peerapol Yuvapoositanon, Mahanakorn University of Technology, Thailand
16:10-16:30	0163	Enhancement of classification performance of an electronic nose using short-time Fourier transform	Nitikarn Nimsuk, Thammasat University, Thailand
16:30-16:50	0115	Diagnosis and Interpretation of Dental X-ray in Case of Deciduous Tooth Extraction Decision in Children Using Active Contour Model and J48 Tree	Juthamas Nuansanong, Supaporn Kiattisin and Adisorn Leelasantitham, Mahidol University, Thailand
16:50-17:10	DSP-INV002	Frequency Estimation and Tracking based on Adaptive Filter	Rachu Punchalard, Mahanakorn University of Technology, Thailand
17:10-17:30	DSP-INV003	On FPGA Implementation of Blind Adaptive Antenna	Akkarat Boonpoonga ¹ , Phaopak Sirisuk ² and Monai Krairiksh ² , ¹ King Mongkut's University of Technology North Bangkok, ² King Mongkut's Institute of Technology Ladkrabang, Thailand
17:30-17:50	0123	A Robust Signum-Based Piecewise-Linear Chaotic Map and Its Application to Microcontroller-Based Cost-Effective Random-Bit Generator	Patinya Kettthong and Wimol San-U, Thai-Nichi Institute of Technology, Thailand