2018 Joint 7th International Conference on Informatics, Electronics & Vision (ICIEV 2018) and 2018 2nd International Conference on Imaging, Vision & Pattern Recognition (icIVPR 2018)

Kitakyushu, Japan
25 – 29 June 2018

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Program in Details

Time	Session	Papers / Talks	Page
25th June (Monday)			
1300 ~ 1400	Registration		
1320 ~ 1400	Lunch (buffet)		
1400 ~ 1540	**Tutorial 1** *(Room 21AB)*	**Non-Orthogonal Multiple Access (NOMA) in 5G and Beyond in the Era of Spectrum Scarcity** *S.M. Riazul Islam, Sejong University, South Korea*	
1540 ~ 1600	Coffee break		
1600 ~ 1800	**Tutorial 2** *(Room 21CD)*	**Raspberry Pi for Computer Vision, PiLab Hands-on Tutorial** *Shu Isaka, Mie University, Japan;* **Takumi Kitajima**, *Mie University, Japan;* **Atsushi Inoue**, *Eastern Washington University, USA*	
1800 ~ 1900	Welcome Reception & Dinner		
26th June (Tuesday)			
0810 ~ 0900	Registration		
0820 ~ 0850	Breakfast		
0900 ~ 1015	**S1-A: IoT, Control and Automation I** *(Room 22)*	123: Companion Following Robotic Wheelchair with Bus Boarding Capabilities	174
		145: Implementation of Fuzzy Logic in Autonomous Irrigation System for Efficient Use of Water	234
		161: Fault Tolerant Control for Networked Control Systems with Sensor Faults	N/A
		256: Coverage Control of a Mobile Multi-Agent Serving System in Dynamical Environment	508
	S1-B: Computer Vision I *(Room 21CD)*	22: Damage Boundary Detection of Partially Scanned Models	34
		24: Design of A Video-Based Vehicle Speed Measurement System - An Uncertainty Approach	44
		50: Chicken Meat Freshness Identification using Colors and Textures Feature	93
		59: Efficient multi-cue predictive tracking of multiple similar interacting objects	123
		63: A Method to Recognize Food using Gist and SURF Features	127
	S1-C: Deep learning for pattern recognition *(Room 21AB)*	13: Adversarial Network for edge detection	19
		201: Bengali Sign Language Recognition Using Deep Convolutional Neural Network	369
		227: Character Recognition in Japanese Historical Documents via Adaptive Multi-Region Model	404
		262: Path Hole Detection to Assist the Visually Impaired People in Navigation	N/A
		265: A hybrid model in transfer learning based pre-trained model and a scale factor updating	538
1020 ~ 1100	**Keynote 1** *(Intl. Conf. Room)*	**Takeshi Yamakawa**, *IEEE Fellow* *Fuzzy Logic Systems Institute, Japan Former Vice-President, Sojo University, Japan*	
1100 ~ 1120	Coffee break		
1120 ~ 1220	**S2-A: Invited Talk 1 & 2** *(Intl. Conf. Room)*	**Yasushi Makihara, Osaka University, Japan** **Rin-ichiro Taniguchi**, *Kyushu University, Japan*	
	S2-B: Electronics I *(Room 22)*	72: Implementation and Feasibility Analysis of GSM Based Smart Energy Meter for Digitalized Power Consumption with Advanced Features	N/A
		121: Design of the Lorentz Force Based Resonant Magnetic Sensor for SiGe MEMS on CMOS Process	169
		151: Optimization of Absorption in Patterned 2D Transition Metal Dichalcogenides	245
		240: Development of Two Wireless ECG Monitoring Systems and their	459

		Performance Assessment	
	S2-C: Informatics and IT I *(Room 21CD)*	4: Introducing ACO+ for Modeling Gene Regulatory Networks from Microarray Data	1
		12: Human Upper Body Detection in Still Images Based on Extended PCA	14
		23: Xth Person View Video for Observation from Diverse Perspectives	38
		35: Effects of Chewing Gum on Differential Components of Psychomotor Vigilance: Improved Sustained Attention with Prolonged Reaction Time	55
1220 ~ 1300	Lunch (buffet)		
1300 ~ 1340	**Luncheon Keynote 2** *(Room 21AB)*	Shinichi Yoshiya, *Hyogo College of Medicine, Japan*	
1350 ~ 1520	**S3-A: Invited Talk 3 & 4** *(Intl. Conf. Room)*	**Tan Chee Pin, Monash University Malaysia, Malaysia** **Kenji Suzuki, Illinois Institute of Technology, USA**	
	S3-B: Pattern Recognition and Machine Learning I *(Room 22)*	168: A Machine Learning Approach on Classifying Orthopedic Patients Based on Their Biomechanical Features	289
		232: Deep Metric Learning with Online Hard and Soft Selection for Person Re-identification	426
		233: Feature Selection using Singular Value Decomposition for Stop Consonant Classification	432
		238: A Regression based analysis of the effect of climate change on the production of major crops in Bangladesh	N/A
		239: Frontal Gait Recognition from Incomplete RGB-D Streams Using Gait Cycle Analysis	453
	S3-C: Image Processing I *(Room 21CD)*	7: Lifting Scheme Based Bandelet Transform Improvements for Medical Video Coding	N/A
		21: Computation Reduction for Decoding-Assisted HEVC Inter Prediction	29
		34: Demosaicking filter using modified color conversion matrix	50
		115: Color Image Enhancement Using Luminance Histogram Equalization and Two-Factor Saturation Control	159
		214: An Efficient Way to Represent Braille using YOLO Algorithm	379
	S3-D: Soft Computing and Computational Intelligence *(Room 21AB)*	55: A Novel Framework for Portfolio Selection using two Nascent Parameters	N/A
		124: Automatic Text Summarization using Fuzzy C-Means Clustering	180
		142: Ovarian Follicle Classification using Numerical and B-mode Image Features from Ultrasound Scanning Devices	222
		144: An Overview of FHSI: Fuzzy Color Space for Image Retrieval and Modeling Aesthetic Perceptions	228
		218: Artificial Neural Network Architecture Design for EEG Time Series Simulation Using Chaotic System	388
		254: Mechanical Property Prediction Method Based on Multi-material 3D Printer	498
1520 ~ 1545	Coffee break		
1545 ~ 1645	**S4-A: Invited Talk 5 & 6** *(Intl. Conf. Room)*	**M.A.S. Kamal, Monash University, Malaysia** **Sozo Inoue, Kyushu Institute of Technology, Japan**	
	S4-B: Software Engineering for Quality Assurance I *(Room 22)*	43: A Cluster Compositional Algorithm for Incorporation of Multiple Sets of Clusters of Identical Data	59
		251: Evaluating the Effectiveness of Conventional Machine Learning Techniques for Defect Prediction: A Comparative Study	481
		255: Inferring Bug Patterns for Detecting Bugs in JavaScript By Analyzing Abstract Syntax Tree	503
	S4-C: Informatics and IT II *(Room 21CD)*	169: Photonic Crystal based Liquid Sensor: A Theoretical Analysis for Formalin Detection	295
		194: Learning Dictionary for Higher Secondary School Textbook in Bangladesh	334
		235: Clothing Extremity Identification Using Convolutional Neural Network Regressor	436
		253: Sentiment Analysis Using R: An Approach to Correlate Cryptocurrency Price Fluctuations with Change in User Sentiment Using Machine Learning	492
1650 ~ 1730	**Keynote 3** *(Intl. Conf. Room)*	**Yasushi Yagi, *Vice-President, Osaka University, Japan***	

27th June (Wednesday)

Time	Session	Paper	No.
0820 ~ 0900	Registration		
0820 ~ 0850	Breakfast		
0900 ~ 1000	**S5-A: Information Theory and Systems I** *(Room 22)*	45: Global Localization from a Single Image in Known Indoor Environments	70
		58: Inference of Gene Regulatory Network with S-system and Artificial Bee Colony Algorithm	117
		66: Objective Functions in Fuzzy Cognitive Maps: the Case of Time Series Modeling	131
		77: Aspect-based Query Expansion for Search Results Diversification	147
	S5-B: Computer Vision II *(Room 21CD)*	136: Mouse Anatomical Cardinal Planes and Axes Towards Augmentation for Behavior Analysis	195
		153: Recognition and Solution for Handwritten Equation Using Convolutional Neural Network	250
		160: Faster Image Compression Technique Based on LZW Algorithm Using GPU Parallel Processing	272
		163: Blind Watermarking for 3-D Printed Objects using Surface Norm Distribution	282
	S5-C: IoT, Control and Automation II *(Room 21AB)*	70: Automated Aeroponics System for Indoor Farming using Arduino	137
		156: IoT based Autonomous Class Attendance System using Non-Biometric Identification	268
		205: IoT Enabled Smart Bicycle Safety System	374
1005 ~ 1045	**Keynote 4** *(Intl. Conf. Room)*	**Kenichi Kanatani,** *IEEE Fellow, Okayama University, Japan*	
1045 ~ 1100	Coffee break		
1100 ~ 1200	**S6-A: Invited Talk 7 & 8** *(Intl. Conf. Room)*	**Norliza Mohd Noor, SMIEEE, UTM, Malaysia**	
		Syoji Kobashi, SMIEEE, University of Hyogo, Japan	
	S6-B: Recent Advances in Digital Oilfield *(Room 22)*	285: A Fog Computing-based Method to Information and Control System Reliability Enhancement	582
		286: Oil Fields Monitoring by Groups of Mobile Micro-robots Using Distributed Neural Networks	588
		287: A Failure Prediction Method for Oil Field Complex Technical Objects	594
	S6-C: Signal Processing for Biomedical and Industrial Applications *(Room 21CD)*	52: Delta T Source Location in AE Signal Processing Technique	105
		133: Crack Propagation Analysis in Ductile Cast Iron by Acoustic Emission Technique	191
		178: Human Identification Using WIFI Signal	300
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1200 ~ 1310	Lunch (buffet)		
1320 ~ 1450	**S7-A: Invited Talk 9, 10 & 11** *(Intl. Conf. Room)*	**Md Tawidul Islam Khan, Saga University, Japan**	
		M Julius Hossain, European Molecular Biology Lab (EMBL), Germany	
		A.K.M. Mahfuzul Islam, The University of Tokyo, Japan	
	S7-B: IoT, Control and Automation III *(Room 22)*	140: A Portable Braille Refreshable Display Using Micro Servos	212
		252: Real-life Implementation of Internet of Robotic Things Using 5 DoF Heterogeneous Robotic Arm	486
		278: DU-MD: An Open-Source Human Action Dataset for Ubiquitous Wearable Sensors	567
		281: A Study on DSR Routing Protocol in Adhoc Network for Daily Activities of Elderly Living	573
		282: A Modern, IoT Platform for Medical Engineering: Vein Visualization	578
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		199: A Traffic Congestion Forecasting Model using CMTF and Machine Learning	357
		223: Parking Gate Control Based on Mobile Application	399
		246: Eco-driving on Hilly Roads Using Model Predictive Control	476
		258: Understanding Real Time Traffic Characteristics of Urban Zones Using GPS Data: A Computational Study on Dhaka City	514

	S7-D: Computer Networking (Room 21AB)	127: Enhanced Energy Detection using Matched Filter for Spectrum Sensing in Cognitive Radio Networks	185
		138: Channel Assignment Augmentation Algorithm to Mitigate Interference for Heterogeneous "TV White Space" Users	200
		148: A New Version of Kerberos Authentication Protocol Using ECC and Threshold Cryptography for Cloud Security	239
		181: An Effective Infrastructure for Pocket Switch Network	310
		231: Efficient Noise Aware Level Based Routing Protocol for Under Water Sensor Network (UWSNs)	N/A
		139: A Minimum Spanning Tree Based Routing Protocol For Multi-hop And Multi-channel Cognitive Radio	206
1450 ~ 1520	**Coffee break**		
1520 ~ 1650	**S8-A: Invited Talk 12, 13 & 14** (Intl. Conf. Room)	**Atsushi Inoue, Eastern Washington University, USA** **Pavel Vlasanek, University of Ostrava, Czech Republic** **Naohisa Takagaki, School of Engineering, University of Hyogo, Japan**	
	S8-B: Advanced Image Recognition and its Application (Room 22)	197: Texture-suppressed Visual Attention Model for Grain Insects Detection	349
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		228: Deep Neural Networks with Mixture of Experts Layers for Complex Event Recognition from Images	410
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	S8-C: Pattern Recognition and Machine Learning II (Room 21CD)	48: A Novel Lossless Coding Technique for Image Compression	82
		179: Fake News Pattern Recognition using Linguistic Analysis	305
		191: Embedded System based Bangla Intelligent Social Virtual Robot with Sentiment Analysis	322
		196: Fuzzy transform and support vector machine for pedestrian detection	344
		270: Mobilephone Sensor-based Real-Time Human Activity Recognition Using One-Vs-Rest SVM	N/A
		271: A Study on Sensor-based Activity Recognition Having Missing Data	556
	S8-D: Health and Medical Application (Room 21AB)	16: Hardware/Software Codesign for Portable Optical Coherence Tomography (OCT) Applications	24
		44: Effect of plantar flexion resistance of ankle-foot orthosis on tendon length during gait	65
		154: Early detection of Parkinson's disease using image processing and artificial neural network	256
		219: Automated tracking and change detection for Age-related Macular Degeneration Progression using retinal fundus imaging	394
		243: Detection of Hard Exudates in Retinal Fundus Images Using Deep Learning	465
		268: Implanted Knee Kinematics Prediction: comparative performance analysis of machine learning techniques	544
1650 ~ 1730	**Keynote 5** (Intl. Conf. Room)	**Makoto Kaneko, FIEEE, JSME Fellow, RSJ Fellow, SICE Fellow, Osaka University, Japan**	
1730 ~ 1800	**Moving to Banquet Venue**		
1800 ~ 2030	**Banquet**		

28th June (Thursday)

0820 ~ 0850	**Breakfast**		
0900 ~ 1000	**S9-A: Software Engineering for Quality Assurance II** (Room 22)	46: Move Method Recommendation using Call Frequency of Methods and Attributes	76
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	S9-C: Information Theory and Systems II *(Room 21AB)*	79: Modeling Irrational Consumer Behaviors with Cognitive Maps. An Outline of a Framework	153
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		195: Virtual Realty Implementation of Steering Hands Motion in Driving Simulator with Unity Technology	338
		237: Glioma Subtypes Clustering Method using Histopathological Image Analysis	442
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1000 ~ 1020		**Coffee break**	
1020 ~ 1100	**Keynote 6** *(Intl. Conf. Room)*	**Mohamed-Slim Alouini,** *IEEE Fellow* *King Abdullah University of Science and Technology, KSA*	
1100 ~ 1140	**Keynote 7** *(Intl. Conf. Room)*	**King Ngi Ngan,** *IEEE Fellow, FIET, FIEAsut; National Thousand Talents Program Chair Professor; University of Science and Technology of China, China*	
1140 ~ 1210		**Award and Closing Ceremony**	
1210 ~ 1300		**Lunch (buffet)**	
1300 ~ 1800		**Tour**	
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