

Time	Session	Papers / Talks
25th June (Monday)		
1300 ~ 1400	Registration	
1320 ~ 1400	Lunch (buffet)	
1400 ~ 1540	Tutorial 1 (Intl. Conf. Room)	Non-Orthogonal Multiple Access (NOMA) in 5G and Beyond in the Era of Spectrum Scarcity <i>S.M. Riazul Islam, Sejong University, South Korea</i>
1540 ~ 1600	Coffee break	
1600 ~ 1800	Tutorial 2 (Intl. Conf. Room)	Raspberry Pi for Computer Vision, PiLab Hands-on Tutorial <i>Shu Isaka, Mie University, Japan; Takumi Kitajima, Mie University, Japan; Atsushi Inoue, Eastern Washington University, USA</i>
1800 ~ 1900	Welcome Reception & Dinner (Room 21ABCD)	
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 145: Implementation of Fuzzy Logic in Autonomous Irrigation System for Efficient Use of Water 161: Fault Tolerant Control for Networked Control Systems with Sensor Faults 256: Coverage Control of a Mobile Multi-Agent Serving System in Dynamical Environment
	S1-B: Computer Vision I (Room 21CD)	22: Damage Boundary Detection of Partially Scanned Models 24: Design of A Video-Based Vehicle Speed Measurement System - An Uncertainty Approach 50: Chicken Meat Freshness Identification using Colors and Textures Feature 59: Efficient multi-cue predictive tracking of multiple similar interacting objects 63: A Method to Recognize Food using Gist and SURF Features
	S1-C: Deep learning for pattern recognition (Room 21AB)	13: Adversarial Network for edge detection 201: Bengali Sign Language Recognition Using Deep Convolutional Neural Network 227: Character Recognition in Japanese Historical Documents via Adaptive Multi-Region Mode 262: Path Hole Detection to Assist the Visually Impaired People in Navigation 265: A hybrid model in transfer learning based pre-trained model and a scale factor updating
1020 ~ 1100	Keynote 1 (Intl. Conf. Room)	Takeshi Yamakawa , <i>IEEE Fellow, IFSA Fellow, SOFT Fellow</i> <i>Fuzzy Logic Systems Institute, Japan Former Vice-President, Sojo University, Japan</i> TITLE: Identifying and Handling a Biological Cell by Employing Dielectrophoresis
1100 ~ 1120	Coffee break	
1120 ~ 1220	S2-A: Invited Talk 1 & 2 (Intl. Conf. Room)	Yasushi Makihara , <i>Osaka University, Japan</i> TITLE: Joint Intensity and Spatial Metric Learning for Robust Gait Recognition Rin-ichiro Taniguchi , <i>Kyushu University, Japan</i> TITLE: Developing Social Services based on Cyber Physical System
	S2-B: Electronics I (Room 22)	72: Implementation and Feasibility Analysis of GSM Based Smart Energy Meter for Digitalized Power Consumption with Advanced Features 121: Design of the Lorentz Force Based Resonant Magnetic Sensor for SiGe MEMS on CMOS Process 151: Optimization of Absorption in Patterned 2D Transition Metal Dichalcogenides 240: Development of Two Wireless ECG Monitoring Systems and their Performance Assessment
	S2-C: Informatics and IT I (Room 21AB)	4: Introducing ACO+ for Modeling Gene Regulatory Networks from Microarray Data 12: Human Upper Body Detection in Still Images Based on Extended PCA

		23: Xth Person View Video for Observation from Diverse Perspectives 35: Effects of Chewing Gum on Differential Components of Psychomotor Vigilance: Improved Sustained Attention with Prolonged Reaction Time
1220 ~ 1300		Lunch (buffet)
1300 ~ 1340	Luncheon Keynote 2 (Room 21AB)	Shinichi Yoshiya , <i>Hyogo College of Medicine, Japan</i> TITLE: Management of sports-related musculoskeletal problems
1350 ~ 1520	S3-A: Invited Talk 3 & 4 (Intl. Conf. Room)	Tan Chee Pin , <i>Monash University Malaysia, Malaysia</i> TITLE: Estimation of bounded faults using sliding mode observers Kenji Suzuki , <i>Illinois Institute of Technology, USA</i> TITLE: Overview of Deep Learning and Its Advanced Applications in Medical Image Processing, Analysis, and Diagnosis
	S3-B: Pattern Recognition and Machine Learning I (Room 22)	168: A Machine Learning Approach on Classifying Orthopedic Patients Based on Their Biomechanical Features 232: Deep Metric Learning with Online Hard and Soft Selection for Person Re-identification 233: Feature Selection using Singular Value Decomposition for Stop Consonant Classification 238: A Regression based analysis of the effect of climate change on the production of major crops in Bangladesh 239: Frontal Gait Recognition from Incomplete RGB-D Streams Using Gait Cycle Analysis 274: F-transform in image inpainting applications
	S3-C: Image Processing I (Room 21CD)	7: Lifting Scheme Based Bandelet Transform Improvements for Medical Video Coding 21: Computation Reduction for Decoding-Assisted HEVC Inter Prediction 34: Demosaicking filter using modified color conversion matrix 115: Color Image Enhancement Using Luminance Histogram Equalization and Two-Factor Saturation Control 214: An Efficient Way to Represent Braille using YOLO Algorithm
	S3-D: Soft Computing and Computational Intelligence (Room 21AB)	55: A Novel Framework for Portfolio Selection using two Nascent Parameters 124: Automatic Text Summarization using Fuzzy C-Means Clustering 142: Ovarian Follicle Classification using Numerical and B-mode Image Features from Ultrasound Scanning Devices 144: An Overview of FHSI: Fuzzy Color Space for Image Retrieval and Modeling Aesthetic Perceptions 218: Artificial Neural Network Architecture Design for EEG Time Series Simulation Using Chaotic System 254: Mechanical Property Prediction Method Based on Multi-material 3D Printer
1520 ~ 1545		Coffee break
1545 ~ 1645	S4-A: Invited Talk 5 & 6 (Intl. Conf. Room)	M.A.S. Kamal , <i>Monash University, Malaysia</i> TITLE: Road-Speed Profile for Enhanced Perception of Traffic Conditions Sozo Inoue , <i>Kyushu Institute of Technology, Japan</i> TITLE: How to Conduct a Big Data Research in Real Fields?
	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 251: Evaluating the Effectiveness of Conventional Machine Learning Techniques for Defect Prediction: A Comparative Study 255: Inferring Bug Patterns for Detecting Bugs in JavaScript By Analyzing Abstract Syntax Tree
	S4-C: Informatics and IT II (Room 21CD)	169: Photonic Crystal based Liquid Sensor: A Theoretical Analysis for Formalin Detection 194: Learning Dictionary for Higher Secondary School Textbook in Bangladesh 235: Clothing Extremity Identification Using Convolutional Neural Network Regressor 253: Sentiment Analysis Using R: An Approach to Correlate Cryptocurrency Price Fluctuations with Change in User Sentiment Using Machine Learning
1650 ~ 1730	Keynote 3 (Intl. Conf. Room)	Yasushi Yagi , <i>IPSI Fellow</i> <i>Vice-President, Osaka University, Japan</i> TITLE: Human Gait Analysis

27th June (Wednesday)									
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	S7-D: Computer Networking (Room 21AB)	127: Enhanced Energy Detection using Matched Filter for Spectrum Sensing in Cognitive Radio Networks 138: Channel Assignment Augmentation Algorithm to Mitigate Interference for Heterogeneous "TV White Space" Users 148: A New Version of Kerberos Authentication Protocol Using ECC and Threshold Cryptography for Cloud Security 181: An Effective Infrastructure for Pocket Switch Network 231: Efficient Noise Aware Level Based Routing Protocol for Under Water Sensor Network (UWSNs) 139: A Minimum Spanning Tree Based Routing Protocol For Multi-hop And Multi-channel Cognitive Radio
1450 ~ 1520	Coffee break	
1520 ~ 1650	S8-A: Invited Talk 12, 13 & 14 (Intl. Conf. Room)	Atsushi Inoue , Eastern Washington University, USA TITLE: Fuzzy Logic in Artificial Intelligence: ~A Classical View and Modern Trends~ Pavel Vlasanek , University of Ostrava, Czech Republic TITLE: F-transform in image inpainting applications Naohisa Takagaki , University of Hyogo, Japan TITLE: Imaging techniques in the field of fluid mechanics and applications
	S8-B: Advanced Image Recognition and its Application (Room 22)	197: Texture-suppressed Visual Attention Model for Grain Insects Detection 200: Low Latency Image Processing of Transportation System Using Parallel Processing co-incident Multithreading (PPcM) 216: A Convolutional Autoencoder for Detecting Tumors in Double Contrast X-ray Images 228: Deep Neural Networks with Mixture of Experts Layers for Complex Event Recognition from Images 230: Appearance inspection of wire harness using RGB-D Sensor 245: Real-time Surgical Tools Recognition in Total Knee Arthroplasty Using Deep Neural Networks
	S8-C: Pattern Recognition and Machine Learning II (Room 21CD)	48: A Novel Lossless Coding Technique for Image Compression 179: Fake News Pattern Recognition using Linguistic Analysis 191: Embedded System based Bangla Intelligent Social Virtual Robot with Sentiment Analysis 196: Fuzzy transform and support vector machine for pedestrian detection 270: Mobilephone Sensor-based Real-Time Human Activity Recognition Using One-Vs-Rest SVM 271: A Study on Sensor-based Activity Recognition Having Missing Data
	S8-D: Health and Medical Application (Room 21AB)	16: Hardware/Software Codesign for Portable Optical Coherence Tomography (OCT) Applications 44: Effect of plantar flexion resistance of ankle-foot orthosis on tendon length during gait 154: Early detection of Parkinson's disease using image processing and artificial neural network 219: Automated tracking and change detection for Age-related Macular Degeneration Progression using retinal fundus imaging 243: Detection of Hard Exudates in Retinal Fundus Images Using Deep Learning 268: Implanted Knee Kinematics Prediction: comparative performance analysis of machine learning techniques
1650 ~ 1730	Keynote 5 (Intl. Conf. Room)	Makoto Kaneko , IEEE Fellow, JSME Fellow, RSJ Fellow, SICE Fellow Osaka University, Japan TITLE: "Beyond Human Technology" Opens A New World
1730 ~ 1800	Moving to Banquet Venue	
1800 ~ 2030	Banquet	

28th June (Thursday)	
0820 ~ 0850	Breakfast
0900 ~ 1000	<p>S9-A: Software Engineering for Quality Assurance II (Room 22)</p> <p>46: Move Method Recommendation using Call Frequency of Methods and Attributes 155: Aspect Extraction from Bangla Reviews using Convolutional Neural Network 190: Security and Performance Bug Reports Identification with Class-Imbalance Sampling and Feature Selection 261: Bug Severity Classification Based on Class-Membership Information</p> <p>S9-B: Electronics II (Room 21CD)</p> <p>49: CZTS BASED THIN FILM SOLAR CELL: An Investigation into the Influence of Dark Current on Cell Performance 51: Neural Network Bayesian Regularization Backpropagation to Solve Inverse Kinematics on Planar Manipulator 141: Optimization of growth procedure for silicon oxinitride (Si4O5N3) single-layer on SiC(0001) 263: Soft Error Tolerance in Memory Applications</p> <p>S9-C: Information Theory and Systems II (Room 21AB)</p> <p>79: Modeling Irrational Consumer Behaviors with Cognitive Maps. An Outline of a Framework 120: A Nutrient Content Estimation Estimation System of Buffet Menu using RGB-D Sensor 195: Virtual Realty Implementation of Steering Hands Motion in Driving Simulator with Unity Technology 237: Glioma Subtypes Clustering Method using Histopathological Image Analysis</p> <p>S9-D: Poster Session II (Sub-foyer) 135, 175, 204, 208, 236, 250, 267, 277, 279</p>
1000 ~ 1020	Coffee break
1020 ~ 1100	<p>Keynote 6 (Intl. Conf. Room)</p> <p>Mohamed-Slim Alouini, IEEE Fellow King Abdullah University of Science and Technology, KSA TITLE: Addressing spectrum scarcity through hybrid optical and radio-frequency wireless networks</p>
1100 ~ 1140	<p>Keynote 7 (Intl. Conf. Room)</p> <p>King Ngi Ngan, IEEE Fellow, FIET, FIEAsut National Thousand Talents Program Chair Professor, University of Science and Technology of China, China TITLE: Object Segmentation and Its Visual Quality Assessment for Images</p>
1140 ~ 1210	Award and Closing Ceremony
1210 ~ 1300	Lunch (buffet)
1300 ~ 1800	Tour

N.B.: Presentation time of each paper is 15 min. For Poster presentation, recommended size is A0.