

KS	Keynote Speech	September 9
Room E		10:05-11:15
Chair	Rong Zhang, Nishinippon Institute of Technology, Japan	
KS-1	<i>Brain-Computer Interfacing Embedded in Intelligent and Affective Systems</i> Anton Nijholt	University of Twente, The Netherlands
KS-2	<i>Design Thinking Course Development as an Evolution of Engineering Design</i> Kenji Matsui	Osaka Institute of Technology, Japan

OS1	Intelligent Sensing System	September 9
Room B		13:20-15:00
Chair	Seiichi Serikawa, Kyushu Institute of Technology, Japan	
OS1-1	<i>Robust Control Design for Discrete Chaotic Systems with Unmatched Uncertainties</i> Jason Sheng-Hong Tsai Jiunn-Shiou Fang Jun-Juh Yan Ming-Cheng Dai Shu-Mei Guo Leang-San Shieh	National Cheng-Kung University, Taiwan National Cheng-Kung University, Taiwan Shu-Te University, Taiwan National Cheng-Kung University, Taiwan National Cheng-Kung University, Taiwan University of Houston, U.S.A.
OS1-2	<i>Distance Measurement Using a Lens with the Eccentric Pin Hole</i> Yuki Otsu Nozomi Matsuda Lifeng Zhang	Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan
OS1-3	<i>The Development of the Walking Assistance Device Using an Omnidirectional Mobile Robot</i> Tsubasa Sugimoto Yuhki Kitazono	National Institute of Technology, Kitakyushu College, Japan National Institute of Technology, Kitakyushu College, Japan
OS1-4	<i>Development of an Evaluation System for the Body Conduction Sound Sensor</i> Fumiya Tanabe Fumiaki Ehara	National Institute of Technology, Ube College, Japan National Institute of Technology, Ube College, Japan
OS1-5	<i>Development of a Measurement System for Body Conduction Sounds using a Bluetooth Communication</i> Tokihiko Tamura Fumiaki Ehara	National Institute of Technology, Ube College, Japan National Institute of Technology, Ube College, Japan

GS1	Software	September 9
Room C		13:20-15:00
Chair	Shiyuan Yang, Kyushu Institute of Technology, Japan	
GS1-1	<i>YARN-based Resource Management for Provisioning Scalable Container Cluster</i> Chia-Chuan Chuang	National Center for High-Performance Computing, Taiwan
GS1-2	<i>Xpix2: Software to Pick the Fiducial Markers Semi-Automatically in Electron Tomography Tilt Images</i> Qingyuan Tian Lars-Goran Ofverstedt Ulf Skoglund	Okinawa Institute of Science and Technology Graduate University, Japan Okinawa Institute of Science and Technology Graduate University, Japan Okinawa Institute of Science and Technology Graduate University, Japan
GS1-3	<i>Development of Learning Analysis Software Using Handmade Clickers</i> Kanji Abe Akito Sekia Kittipanyangam Soranut Wang Lok Do Shuji Kurebayash Kei Eguchi	Fukuoka Institute of Technology, Japan Fukuoka Institute of Technology, Japan Fukuoka Institute of Technology, Japan Fukuoka Institute of Technology, Japan Shizuoka University, Japan Fukuoka Institute of Technology, Japan
GS1-4	<i>Visual Contrast Enhancement by Histogram Modification Based on Generalized Extreme Value Distribution</i> Preecha Vonghirandecha Montri Karnjanadecha Sathit Intajag	Prince of Songkla University, Thailand Prince of Songkla University, Thailand Prince of Songkla University, Thailand
GS1-5	<i>Deformation Simulation of Human Kidney Using Molecular Modelling Method</i> Alpaslan Duysak Mustafa Mujdat Atanak Nazmiye Ebru Duysak	Dumlupinar University, Kutahya Turkey Dumlupinar University, Kutahya Turkey Dumlupinar University, Kutahya Turkey

GS2	Industrial Application Technology 1	September 9
Room D		13:20-15:00
Chair	Toshiya Arakawa, Aichi University of Technology, Japan	
GS2-1	<i>Consideration for Inhibiting Over-reliance of Autonomous Vehicle</i> Toshiya Arakawa	Aichi University of Technology, Japan
GS2-2	<i>Acceleration of Numerical Analysis for Acoustics by FDTD for Structural Health Monitoring System</i> Kiyoshi Hayakawa Akira Oki Toshitaka Umemoto Takeshi Wada Takashi Obata	Osaka Prefecture University College of Technology, Japan Osaka Prefecture University College of Technology, Japan Osaka Prefecture University College of Technology, Japan Osaka Prefecture University College of Technology, Japan Hokkai-Gakuen University, Japan
GS2-3	<i>A Variable Step-size Diffusion Affine Projection Algorithm Using a Novel Combiner with No Need of Communicational Complexity</i> Min Seok Seo Seung Hun Kim Gyogwon Koo Sang Woo Kim	Pohang University of Science and Technology, Korea Pohang University of Science and Technology, Korea Pohang University of Science and Technology, Korea Pohang University of Science and Technology, Korea
GS2-4	<i>Optical Flow Based Block Matching Method for Tendon Tracking in Ultrasound</i> Bo-I Chuang Jian-Han Hsu Li-Chieh Kuo Fong-Chin Su I-Ming Jou Yung-Nien Sun	National Cheng Kung University, Taiwan National Cheng Kung University, Taiwan National Cheng Kung University, Taiwan National Cheng Kung University, Taiwan National Cheng Kung University Hospital, Taiwan National Cheng Kung University, Taiwan
GS2-5	<i>A Statistical Sensitivity Analysis Method Using Weighted Empirical Distribution Function</i> Kiyoharu Tagawa	Kindai University, Japan

OS2	Intelligent System	September 9
Room B		15:20-17:00
Chair	Shota Nakashima, Yamaguchi University, Japan	
OS2-1	<i>Danger Conditions Detection by Using Acceleration Sensor in Smartphone</i> Muhammad Khairul Nizar Khairuddin Hiromasa Tomimoto Kazuhiro Nakamoto Shenglin Mu Shota Nakashima Hiroschi Nakamura Kanya Tanaka	Yamaguchi University, Japan Yamaguchi University, Japan Yamaguchi University, Japan Hiroshima College, Japan Yamaguchi University, Japan Yamaguchi University, Japan Yamaguchi University, Japan
OS2-2	<i>Proposal for a Method to Discriminate the Kind of Laundry that is Hung with Hanger</i> Takumi Saruhashi Ryunosuke Miyamoto Shenglin Mu Takaaki Akimoto Yuhki Kitazono	National Institute of Technology, Kitakyushu College, Japan Molex Japan Co., Ltd., Japan National Institute of Technology, Hiroshima College, Japan National Institute of Technology, Kitakyushu College, Japan National Institute of Technology, Kitakyushu College, Japan
OS2-3	<i>Full Automatic Fire Extinguish System for Residential Use</i> Ryo Takeuchi Kouki Yamaguchi Hayato Takahashi Masahiko Hanada Hiromichi Hanada Kanya Mizuguchi Seichi Serikawa Yuhki Kitazono	National Institute of Technology, Kitakyushu College, Japan National Institute of Technology, Kitakyushu College, Japan National Institute of Technology, Kitakyushu College, Japan Hanada Setsubi, Japan Hanada Setsubi, Japan Hanada Setsubi, Japan Kyushu Institute of Technology, Japan National Institute of Technology, Kitakyushu College, Japan
OS2-4	<i>High-speed Transmission of Information about Car Accident with Communication between Cars</i> Kosuke Ando Yuhki Kitazono	National Institute of Technology, Kitakyushu College, Japan National Institute of Technology, Kitakyushu College, Japan

GS3	Image Processing 1	September 9
Room C		15:20-17:00
Chair	Han Huang, South China University of Technology, China	
GS3-1	<i>Noise Estimation Technique for Multiple Copies Image Denoising</i> Somkait Udomhunsakul Napa Sae-Bae	Rajamangala University of Technology Suvarnabhumi, Thailand Rajamangala University of Technology Suvarnabhumi, Thailand
GS3-2	<i>SVM-KNN Algorithm for Image Classification Based on Enhanced HOG Feature</i> Zhaoquan Cai Pan Yu Yihui Liang Bin Lin Han Huang	Huizhou University, China South China University of Technology, China South China University of Technology, China South China University of Technology, China South China University of Technology, China
GS3-3	<i>Sparsity Score Estimation for Hyperspectral Anomaly Detection</i> Rui Zhao Xianquan Han Bo Du Liangpei Zhang	Wuhan University, China Changjiang River Scientific Research Institute, China Wuhan University, China Wuhan University, China
GS3-4	<i>Identification of Possible Infarction on the Cross Section of Cardiac Muscle Tissue Using Color Segmentation and Difference of Gaussian</i> Vanessa Estremos Chico Sandra Mae Famador	University of the Philippines Cebu, Philippines University of the Philippines Cebu, Philippines
GS3-5	<i>General Text-Chunk Localization in Scene Images using a Codebook-based Classifier</i> Bowornrat Sriman Lambert Schomaker Potchara Pruksasri	University of Groningen, The Netherlands University of Groningen, The Netherlands Mahasarakham University, Thailand

GS4	Sensing System	September 9
Room D		15:20-17:00
Chair	Wenhui Chen, National Taipei University of Technology, Taiwan	
GS4-1	<i>A Dry-Eye Warning System Based on the Estimation of the Human State Using a Single-Channel EEG Sensor</i> Kaoru Yoshii Keiji Matsumoto	National Institute of Technology, Kitakyushu College, Japan National Institute of Technology, Kitakyushu College, Japan
GS4-2	<i>New Technique for Unobtrusive Sensing of Human Postures by a Smart Prayer Mat</i> Vasily Moshnyaga Kasman	Fukuoka University, Japan Fukuoka University, Japan
GS4-3	<i>A Scalable Organization of 2-D Ultrasonic Sensor Array</i> Yuichi Morita Yasunobu Takaichi Akira Yamawaki	Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan
GS4-4	<i>Position Detection of Moving Objects Using a Two Dimensional PSD and the Ceiling LED Lighting</i> Kenta Kagemoto Kosuke Onishi Shiyuan Yang	Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan
GS4-5	<i>Activity Recognition for Healthcare Based on Slow Intelligence Systems</i> Wenhui Chen Bing-Yang Chang	National Taipei University of Technology, Taiwan National Taipei University of Technology, Taiwan

GS5	Image Processing 2	September 10
Room B		10:00-11:40
Chair	Fumiaki Ehara, National Institute of Technology, Ube College, Japan	
GS5-1	<i>A Fast CU Division Algorithm for Intra Prediction in HEVC</i> Ryota Takagi Genki Yoshitake Yankang Wang	National Institute of Technology, Kurume College, Japan Kyushu University, Japan National Institute of Technology, Kurume College, Japan
GS5-2	<i>Evaluation of Compact Real-time Descriptors for Camera Motion Estimation</i> Shota Ogawa Kenichi Asami Mochimitsu Komori	Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan
GS5-3	<i>Comparing Interpolations in Frequency Domain and Improvement of Interpolated Images by Using Cube of Pixel Difference</i> Naoki Ono Kiichi Urahama	Kyushu University, Japan Kyushu University, Japan
GS5-4	<i>Image Encryption Based on Phase Decomposition Technique</i> Katsuhiro Uno Hoang Hoa Tien Dung	Ibaraki University, Japan Ibaraki University, Japan
GS5-5	<i>A Robust Image Enhancement System for Illumination Variant Image based on Auto-tuning Stochastic Resonance</i> Noriko Kojima Bikash Lamsal Naofumi Matsumoto	Ashikaga Institute of Technology, Japan Ashikaga Institute of Technology, Japan Ashikaga Institute of Technology, Japan

GS6	Electrical Technology	September 10
Room C		10:00-11:40
Chair	Kei Eguchi, Fukuoka Institute of Technology, Japan	
GS6-1	<i>The Growth rate Tracking System of the Tree for Forest industry</i> Nimit Hongyim Somsak Mitatha Sawatsakorn Chaiyasoonthorn	King Mongkut's Institute of Technology Ladkrabang, Thailand King Mongkut's Institute of Technology Ladkrabang, Thailand Ramkhamhaeng University, Thailand
GS6-2	<i>Detection of Internal Short Circuit in Li-ion Battery by Estimating its Resistance</i> Minhwan Seo Taedong Goh Gyogwon Koo Minjun Park Sang Woo Kim	Pohang University of Science and Technology, Korea Pohang University of Science and Technology, Korea Pohang University of Science and Technology, Korea Pohang University of Science and Technology, Korea Pohang University of Science and Technology, Korea
GS6-3	<i>The Development of a Preprocessing Circuit Using Clocked CMOS Neuron Inverters for a Retinal Prosthesis System</i> Kei Eguchi Ponglert Rattanachinalai Kanji Abe Yujiro Harada Kuniaki Fujimoto	Fukuoka Institute of Technology, Japan Fukuoka Institute of Technology, Japan Fukuoka Institute of Technology, Japan Tokai University, Japan Tokai University, Japan
GS6-4	<i>Wake-up time Measurement of Wireless Sensor Node with Zero Standby-power</i> Yasunobu Takaichi Daichi Koide Akira Yamawaki	Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan
GS6-5	<i>Development of Reconfiguration unit for General Purpose Microcomputer with Dynamic Partial Reconfiguration</i> Sota Kono Gen Nishizawa Akira Yamawaki	Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan

GS7	Industrial Application Technology 2	September 10
Room D		10:00-11:40
Chair	Makoto Miyauchi, National Institute of Technology, Kitakyushu College, Japan	
GS7-1	<i>Social Recommendation Based on the Analysis of Interest and Follow Influences</i> Chin-Hui Lai Duen-Ren Liu Chi-Hao Yeh	Chung Yuan Christian University, Taiwan National Chiao Tung University, Taiwan National Chiao Tung University, Taiwan
GS7-2	<i>A Method for Weight Set Compaction in Power Aware Multiple Weighted Random BIST</i> Hiroshi Yokoyama Makoto Nishida Yoichi Kageyama	Akita University, Japan Akita University, Japan Akita University, Japan
GS7-3	<i>Multi-wavelength Switching Using Hybrid Plasmonic Add/drop Multiplexer</i> Surachai Tunsiri Visrut Phetcharat Nopparat Thammawongsa Somsak Mitatha	Institute of Technology Ladkrabang, Thailand Udonthani Rajabhat University, Thailand Udonthani Rajabhat University, Thailand Institute of Technology Ladkrabang, Thailand
GS7-4	<i>Automatic Curriculum Vitae Creator Using a Virtual Human Speech Interviewer</i> Joseph Clint Jao Molon Sandra Mae W. Famador	BioMedical Imaging and Artificial Intelligence Laboratory, Philippines BioMedical Imaging and Artificial Intelligence Laboratory, Philippines
GS7-5	<i>A Study on The Appearance of Spatial Illuminance of The Lampshade Using The Folds of Linear Geometric Pattern</i> Yoshie Takewaka Masanobu Inoue Harunobu Kuwano Makoto Miyauchi Seiichi Serikawa	National Institute of Technology, Kitakyushu College, Japan National Institute of Technology, Kitakyushu College, Japan National Institute of Technology, Kitakyushu College, Japan National Institute of Technology, Kitakyushu College, Japan Kyushu Institute of Technology, Japan

GS8	Image Recognition	September 10
Room B		13:00-14:40
Chair	Bikash Lamsal, Ashikaga Institute of Technology, Japan	
GS8-1	<i>Intelligent Driver Support Systems: Pedestrian Detection Using HOG Algorithm</i> Ming-Hsuan Chung Stephen Karungaru Kenji Terada	Tokushima University, Japan Tokushima University, Japan Tokushima University, Japan
GS8-2	<i>Filtering Scheme for ROI Coding by Dynamic Range Compression and Updating Source Picture Filter</i> Kazuhito Sakomizu Takashi Nishi Takao Onoye	Oki Electric Industry Co., Ltd., Japan Oki Electric Industry Co., Ltd., Japan Osaka University, Japan
GS8-3	<i>The Development of a Prototype of Bionic Eyes for Visual Impairment</i> Ponglert Rattanachinalai Wanglok Do Soranut Kittipanyangam Kei Eguchi	Fukuoka Institute of Technology, Japan Fukuoka Institute of Technology, Japan Fukuoka Institute of Technology, Japan Fukuoka Institute of Technology, Japan
GS8-4	<i>A Novel Face Detection Algorithm for Occluded Images based on the Geometrical Model of Nose Point Extraction</i> Bikash Lamsal Noriko Kojima Naofumi Matsumoto	Ashikaga Institute of Technology, Japan Ashikaga Institute of Technology, Japan Ashikaga Institute of Technology, Japan

GS9	CT Image Processing	September 10
Room C		13:00-14:40
Chair	Hideaki Orii, Fukuoka University, Japan	
GS9-1	<i>Automatic Segmentation of the Vertebrae and the Transverse Processes Regions on CT Images</i> Ran Dong Masashi Kondo Joo Kooi Tan Yihong Zhao Youwei Zhao Hyungseop Kim	Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan Yangzhou University, China Yangzhou University, China Kyushu Institute of Technology, Japan
GS9-2	<i>A Force Feedback Pedical Screw Impantation Surgical Trainer with Automatic Vertebra Segmentation</i> You-Ren Chen Chan-Pang Kuok Che-Chia Hsu Chien-Kuo Wang Yung-Nien Sun	National Cheng Kung University, Taiwan National Cheng Kung University, Taiwan National Cheng Kung University Hospital, Taiwan National Cheng Kung University Hospital, Taiwan National Cheng Kung University, Taiwan
GS9-3	<i>Computed Tomography Image Quality Evaluation for pre-surgical dental implant site assessment using Different Exposure Setting Protocols: Mandibular Phantom Study</i> Ahmed Al-Humairi Xiaoming Zheng Ryan H.L. Ip Bilal El Masoud	Charles Sturt University, Australia Charles Sturt University, Australia Charles Sturt University, Australia Charles Sturt University, Australia

GS10	Measurement System	September 10
Room D		13:00-14:40
Chair	Weiwei Du, Kyoto Institute of Technology, Japan	
GS10-1	<i>Research on 3-D Measurement System based on Handheld Microscope</i> Qikai Li Cunwei Lu Kazuhiro Tsujino	Fukuoka Institute of Technology, Japan Fukuoka Institute of Technology, Japan Fukuoka Institute of Technology, Japan
GS10-2	<i>High Sensitivity Spring Coil as Displacement Sensor for Slope Stability Monitoring</i> Hafizh Prihtiadi Mitra Djamal	Institut Teknologi Bandung, Indonesia Institut Teknologi Bandung, Indonesia
GS10-3	<i>Volumetric Measurement of Ground-Glass Opacity Nodules using Expectation-Maximization Algorithm</i> Yanli Miao Jianming Wang Weiwei Du Yanhe Ma Hong Zhang	Tianjin Polytechnic University, China Tianjin Polytechnic University, China Kyoto Institute of Technology, Japan Tianjin Chest Hospital, China Tianjin Chest Hospital, China
GS10-4	<i>Position Detection Using One Photodiode and Multiple LED Makers</i> Kosuke Onishi Nobuhiro Hirano Shiyuan Yang	Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan
GS10-5	<i>Suggestion of High Precision Drowning Detection System Using Plural Radio Modules</i> Nobuhiro Hirano Kosuke Onishi Seiichi Serikawa	Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan

GS11	Stereo Vision	September 10
Room B		15:00-16:20
Chair	Akira Yamawaki, Kyushu Institute of Technology, Japan	
GS11-1	<i>A Pre-Focusing Method for Detecting Pedestrian Running Out into The Street Using A Mobile Stereo Camera</i> Takuma Sasaki Hiroshi Hanaizumi	Hosei University, Japan Hosei University, Japan
GS11-2	<i>Stereo Vision Based 3D Map Construction Using Structure from Motion</i> Ryuta Harada Kenichi Asami Mochimitsu Komori	Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan
GS11-3	<i>Overcome the Long Distance: A Universal Method for Sea Wave Matching</i> Lei Yan Hao Yi Cunwei Lu	Fukuoka Institute of Technology, Japan Fukuoka Institute of Technology, Japan Fukuoka Institute of Technology, Japan
GS11-4	<i>Constrained Fuzzy Control for Wheeled Mobile Robot with Visual-Inertial Sensing</i> Chung-Hsun Sun Hsuan Chen Sheng-Kai Huang	Tamkang University, Taiwan Tamkang University, Taiwan Tamkang University, Taiwan

GS12	Computer Vision	September 10
Room C		15:00-16:20
Chair	Jin Sun, Yangzhou University, China	
GS12-1	<i>Online Inspection System for Maize Kernel Based on Computer Vision</i> Jin Sun Li Zeng Wangqin Zhang Fang Chen	Yangzhou University, China Yangzhou University, China Yangzhou First People's Hospital, China Yangzhou University, China
GS12-2	<i>A Specified Saliency Detection for Human Detection</i> Ling Zheng Shuhan Chen Xuelong Hu Lifeng Zhang	Kyushu Institute of Technology, Japan Yangzhou University, China Yangzhou University, China Kyushu Institute of Technology, Japan
GS12-3	<i>The Study of Detection Method of Echizen Jellyfish Using Images from the Internet</i> Yudai Sugimoto Kazutaka Sagara Zhang Lifeng	Kyushu institute of technology, Japan Kyushu institute of technology, Japan Kyushu institute of technology, Japan
GS12-4	<i>Virtual Drum Simulator Using Computer Vision</i> Shannon Rae Fidellaga Bering Sandra Mae W. Famador	University of the Philippines Cebu, Philippines University of the Philippines Cebu, Philippines

GS13	Control Technology	September 10
Room D		15:00-16:20
Chair	Shenglin Mu, National Institute of Technology, Hiroshima College, Japan	
GS13-1	<i>On The Design Of Output Feedback Controllers For Continuous-Time LTI Systems Over Fading Channels</i> Lanlan Su Graziano Chesi	The University of Hong Kong, Hong Kong The University of Hong Kong, Hong Kong
GS13-2	<i>A Dual-loop Approach with Visual Servoing Fuzzy Control for Marker Navigation Quadcopter</i> Chen-Huan Pi Bin Sheng Voong Stone Cheng	National Chiao Tung University, Taiwan National Chiao Tung University, Taiwan National Chiao Tung University, Taiwan

PS	Poster Session	September 11
Room C-D		10:30-11:30
Chair	Shenglin Mu, National Institute of Technology, Hiroshima College, Japan	
PS-1	<i>Simple PCS for Photovoltaic Power Generation - optimum inverter switching -</i> Keiju Matsui Eiji Oishi Yasutaka Kawata Mikio Yasubayashi Masayoshi Umeno Hideo Uchida Masaru Hasegawa	Minna-denryoku, Inc., Japan Minna-denryoku, Inc., Japan Minna-denryoku, Inc., Japan Chubu University, Japan Chubu University, Japan Chubu University, Japan Chubu University, Japan
PS-2	<i>Duble-Ring Marker Based 3D Pose Estimation For Rod-Shaped MIS Instrument From a Single 2D Image</i> Ming-Juan Yu Jia-Cyuan Syu Guo-Shing Lin Wen-Nun Lie Jen-Chun Huang Huan-Ting Chang Jack Liu Chuen-Horng Lin Day-Fann Shen	National Yunlin University of Science and Technology, Taiwan National Yunlin University of Science and Technology, Taiwan Da-Yeh University, Taiwan National Chung Cheng University, Taiwan National Chung Cheng University, Taiwan National Yunlin University of Science and Technology, Taiwan Show Chwan Hospital Incubation Center, Taiwan National Taichung University of Science and Technology, Taiwan National Yunlin University of Science and Technology, Taiwan
PS-3	<i>The Feasibility of Integrating Flexible Sensor and Virtual Self-Organizing DC Grid Model in an Embedded System for Blood Leakage Detection during Dialysis Treatment</i> Ping-Tzan Huang Chih-Cheng Kao Chien-Ming Li Yueh-Ren Ho Wei-Ling Chen Ming-Jui Wu Chia-Hung Lin	National Tsing Hua University, Taiwan Kao-Yuan University, Taiwan Chi Mei Medical Center, Taiwan National Cheng Kung University, Taiwan Kaohsiung Veterans General Hospital, Taiwan Kaohsiung Veterans General Hospital, Taiwan Kao-Yuan University, Taiwan
PS-4	<i>A Tree Structure PTS Technique for PAPR Reduction in OFDM Systems</i> Kuo-Chen Chung Houshou Chen Ting-Ya Yang	National Chung Hsing University, Taiwan National Chung Hsing University, Taiwan National Chung Hsing University, Taiwan
PS-5	<i>Demand Response and Ancillary Service Strategy using Dynamic Game Model for Aggregator Business Market in Smart Grids</i> Tung-Sheng Zhan Chih-Cheng Kao Jian-Liung Chen Chao-Lin Kuo Chia-Hung Lin Shi-Jaw Chen	Kao-Yuan University, Taiwan Kao-Yuan University, Taiwan Kao-Yuan University, Taiwan National Kaohsiung Marine University, Taiwan Kao-Yuan University, Taiwan Kao-Yuan University, Taiwan
PS-6	<i>Using Limiting Distribution of Transition Probability to Assess Coexisting Inflow and Outflow Stenosis in Experimental Stenotic Arteriovenous Grafts</i> Wei-Ling Chen Yi-Chen Mai Chien-Ming Li Chung-Dann Kan Hung-Shang Liu Chia-Hung Lin	Kaohsiung Veterans General Hospital, Taiwan National Cheng Kung University, Taiwan Chi Mei Medical Center, Taiwan National Cheng Kung University, Taiwan Kaohsiung Veterans General Hospital, Taiwan Kao-Yuan University, Taiwan
PS-7	<i>Super-Resolution from a Single Image to Improve Sharpness of Texture Based on Optimum Parameter of Total Variation Regularization</i> Hiroki Tsurusaki Masashi Kameda Prima Oky Dicky Ardiansyah	Iwate Prefectural University, Japan Iwate Prefectural University, Japan Iwate Prefectural University, Japan
PS-8	<i>Baseline Study to Estimate the Amount of Disaster Waste Using RapidEye Data</i> Hikaru Shirai Yoichi Kageyama Azuma Ohuchi Makoto Nishida	Akita University, Japan Akita University, Japan Tohoku University, Japan Akita University, Japan
PS-9	<i>Research on Property of Image Matching Method Based on the Deep Fusion of Harris and SIFT</i> Qingxi Zeng Shan Ma Yupeng Feng Xiao Fang	Nanjing University of Aeronautics and Astronautics, China Nanjing University of Aeronautics and Astronautics, China Nanjing University of Aeronautics and Astronautics, China Chery Automobile Co., Ltd., China

PS-10	<i>Development of a Commodity Location Determining Method for Manual Picking Efficiency in an Unautomated Warehouse</i> Tsuyoshi Takahashi Makoto Nishida Yoichi Kageyama Hachiro Endo	Akita University, Japan Akita University, Japan Akita University, Japan Logizard Co. Ltd., Japan
PS-11	<i>Image Downscaling Based on Neugebauer Model</i> Zixu Zhang Kohei Inoue Kenji Hara Kiichi Urahama	Kyushu University, Japan Kyushu University, Japan Kyushu University, Japan Kyushu University, Japan
PS-12	<i>A Bandwidth-Adjustable Motion Estimation Design for Portable Video Coding</i> Jui-Hung Hsieh King-Chu Hung Hung-Ren Wang	National Kaohsiung First University of Science and Technology, Taiwan National Kaohsiung First University of Science and Technology, Taiwan National Kaohsiung First University of Science and Technology, Taiwan
PS-13	<i>Effective Image Dehazing by Multiband Image Fusion</i> Peng Cheng Hu Chen	School of Aeronautics and Astronautics, Sichuan University, China College of Computer Science, Sichuan University, China
PS-14	<i>Classification of Simultaneous Motions using Wavelet-based Time-frequency Representation of EMG Signals</i> Nan Bu Takayuki Mukaeda	National Institute of Technology, Kumamoto College, Japan Yokohama National University, Japan
PS-15	<i>Face Sketch Synthesis System Utilizing Both Global Structure and Local Detailed Texture Components</i> Ching-Ting Tu Yu-Hsien Chan	Tamkang University, Taiwan Tamkang University, Taiwan
PS-16	<i>Ink-painting Animation by Geometry Buffer Based Real-time 3D Rendering</i> Yu Gu Naoki Ono Kiichi Urahama	Kyushu University, Japan Kyushu University, Japan Kyushu University, Japan
PS-17	<i>Image Contrast Enhancement by Interpolated Histogram Specification</i> Hengjun Yu Kohei Inoue Kenji Hara Kiichi Urahama	Kyushu University, Japan Kyushu University, Japan Kyushu University, Japan Kyushu University, Japan
PS-18	<i>Object Extraction Focused on Holding Action of Human Being</i> Tatsuki Ishijima Masaki Ishii	Akita Prefectural University, Japan Akita Prefectural University, Japan
PS-19	<i>Image Correction for Proper Time of Harvesting Fruit Outdoors</i> Ikumi Kusada Masaki Ishii Haruki Yamane	Akita Prefectural University, Japan Akita Prefectural University, Japan Akita Industrial Technology Center, Japan
PS-20	<i>Creating a Correction Table for the Purpose of Improving the Accuracy of the RGB-D Sensor</i> Shinya Fujino Masaki Ishii Shuntaro Sato	Akita Prefectural University, Japan Akita Prefectural University, Japan Akita Prefectural University, Japan
PS-21	<i>Study on Improvement of Sound Localization for Dichotic-Listening</i> Toshiaki Ebihara Yuto Tanaka Yoshihisa Nakatoh	Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan
PS-22	<i>Study of Listening Training to Improve Auditory Ability for Elderly People</i> Shinichiro Asayama Yuto Tanaka Yoshihisa Nakatoh	Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan
PS-23	<i>Development of System for Automatic Exchanging Toilet Paper</i> Takumi Saruhashi Kouhei Yamashita Yuhki Kitazono	National Institute of Technology, Kitakyushu College, Japan National Institute of Technology, Kitakyushu College, Japan National Institute of Technology, Kitakyushu College, Japan
PS-24	<i>Correction of Color Cast Images using Histogram Equalization of Local Area</i> Makoto Misumi Hideaki Orii Tanjina Sharmin Kenji Mishima	Fukuoka University, Japan Fukuoka University, Japan Fukuoka University, Japan Fukuoka University, Japan

GS14	Image Processing 3	September 11
Room B		13:00-14:40
Chair	Lifeng Zhang, Kyushu Institute of Technology, Japan	
GS14-1	<i>Optimal Binary Descriptor for Pre-Classification in Efficient Non-Local Mean Image Denoising</i> Jan-Ray Liao Yi-An Chen	National Chung Hsing University, Taiwan National Chung Hsing University, Taiwan
GS14-2	<i>Fast Technique of Impulsive Noise Suppression in Color Images</i> Bogdan Smolka	Silesian University of Technology, Poland
GS14-3	<i>Time Trend Analysis of Scenic Leaves and Blossoms Viewing Places</i> Agnes Bogardi-Meszoly Andras Rovid Shohei Yokoyama	Budapest University of Technology and Economics, Hungary Obuda University, Hungary Shizuoka University, Japan

GS15	Voice Recognition	September 11
Room C		13:00-14:40
Chair	Yumi Wakita, Osaka Institute of Technology, Japan	
GS15-1	<i>Study of Onomatopoeia Expression Caption on TV Contents</i> Kazuki Kodama Yuto Tanaka Yoshihisa Nakatoh	Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan
GS15-2	<i>Improvement of MAEQ Method for Speech Enhancement in Noisy Environments</i> Hiroyuki Takamatsu Yuto Tanaka Yoshihisa Nakatoh	Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan
GS15-3	<i>Communication Smoothness Estimation Using F0 Information</i> Yumi Wakita Shunpei Matsumoto	Osaka Institute of Technology, Japan Osaka Institute of Technology, Japan
GS15-4	<i>Improvement of the Approach Vehicle Detection by the Supersonic Wave</i> Kosuke Kuwayama Yuto Tanaka Yoshihisa Nakatoh	Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan
GS15-5	<i>Study on Evaluation about Unpleasantness of Sounds in Everyday Life by Elderly People</i> Kazuyoshi Sawada Yuto Tanaka Yoshihisa Nakatoh	Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan Kyushu Institute of Technology, Japan