date	session	Session Title	Paper Title	Author(s)
19	TA01	[OS] Nanoscale Servo Control	Short Span Seeking Control System of Hard Disk Drives Based on Pivot Friction Compensation	Motohiro Kawafuku(Nagoya Institute of Technology)
19	TA01	[OS] Nanoscale Servo Control	Torque disturbance rejection improvement by voltage mode control using current driver	hiroyuki ono(Atom-giken)
19	TA01	[OS] Nanoscale Servo Control	Friction Compensation Based on the LuGre Friction Model	Jun Ishikawa(Tokyo Denki University), Sei Tei(Tokyo Denki University), Daiki Hoshino(Tokyo Denki University), Masaki Izutsu(Tokyo Denki University), Norihiro KAMAMICHI(Tokyo Denki University)
19	TA01	[OS] Nanoscale Servo Control	FIR Optimization Control for External Vibration in Self Servo Track Writer	Benjamas Yui Panomruttanarug(King Mongkut's University of Technology Thonburi)
19	TA01	[OS] Nanoscale Servo Control	Final-State Control Satisfying Jerk Continuity	Mitsuo Hirata(Utsunomiya University)
19	TA01	[OS] Nanoscale Servo Control	Precision Motion Control of A Nano Stage Using Repetitive Control and Double-Feedforward Compensation	Chi-Ying Lin(National Taiwan University of Science and Technology), Po-Ying Chen(National Taiwan University of Science and Technology)
19	TA02	[OS] Service Robots and Their Execution Environments	Device Collaboration in Smarthomes as Service Delivery	Huan-Ming Liang(Academia Sinica), Alan Liu(National Chung Cheng University), Chiung-Hon Lee(Nanhua University), Yi-Chih Chen(National Chung Cheng
19	TA02	[OS] Service Robots and Their Execution Environments	Using U-Bot for RoboCup@home	Michael N. Mayer(National Chung Cheng University), Li-Wei Lu(National Chung Cheng University), Yu-Min Hung(National Chung Cheng University), Hong Wu(National Chung Cheng University), Yu-Cheng
19	TA02	[OS] Service Robots and Their Execution Environments	A Visual Surveillance System for Mobile Robot using Omnidirectional and PTZ cameras	Hong Wu(National Chung Cheng University), Huei-Yung Lin(National Chung Cheng University)
19	TA02	[OS] Service Robots and Their Execution Environments	A Humanoid Robot Designed for HuroCup Competition	Kuo-Yang Tu(National Kaohsiung First University of Science and Technology)
19	TA02	[OS] Service Robots and Their Execution Environments	T-S Fuzzy Control for Magnetic Levitation Systems Using Quantum Particle Swarm Optimization	Gwo-Ruey Yu(National Chung Cheng University)
19	TA03	Biological and Physiological Engineering	Feature Extraction of Visual Evoked Potentials Using State-Space Model	Jun Irie(Kyushu Institute of Technology), Tomonari Yamaguchi(Kyushu Institute of Technology), Kana Omori(Kyushu Institute of Technology), Katsuhiro Inoue(Kyushu Institute of Technology)
19	TA03	Biological and Physiological Engineering	Feature Extraction from EEG Signals in SSVEP Spelling System	Tomonari Yamaguchi(Kyushu Institute of Technology), Kana Omori(Kyushu Institute of Technology), Jun Irie(Kyushu Institute of Technology), Katsuhiro Inoue(Kyushu Institute of Technology)
19	TA03	Biological and Physiological Engineering	Asymptotic stability of neutral functional differential equation (NFDE) model of genetic regulatory networks (GRNs) with time-varying delays	Daesung Jung(POSTECH), Jahoo Koo(POSTECH), Sang-Chul Won(POSTECH)

19	TA03	Biological and Physiological Engineering	Estimation of Noisy Gene Regulatory Networks	Chun-Liang Lin(National Chung Hsing University), Chia-Hua Chuang(National Chung Hsing University)
19	TA03	Biological and Physiological Engineering	An OP-based Potantiostat used in Electrochemical Bio-detection System	Jui-Lin Lai(National United University), Wu Han-ning(National United University), Rong-Jian Chen(National United University), Shi-Jinn Horng(NATIONAL TAIWAN UNIVERSITY OF SCIENCE AND TECHNOLOGY)
19	TA03	Biological and Physiological Engineering	Optimal Mapping of Torus Self-Organizing Map for Forearm Motion Discrimination based on EMG	Atsushi Kiso(Chiba Institute of Technology), Hirokazu Seki(Chiba Institute of Technology)
19	TA04	[OS] Advanced Pattern Measurement I	Cell Segmentation from Phase-Contrast Images using Hybrid Watershed and Region Growing Algorithm for Genomic Drug Discovery	Jo Orikawa(keio university), Toshiyuki Tanaka(Keio University)
19	TA04	[OS] Advanced Pattern Measurement I	3-Dimensional Analysis of Nystagmus using Video and Image Processing	Shunsuke Tominaga(Keio University), Toshiyuki Tanaka(Keio University)
19	TA04	[OS] Advanced Pattern Measurement	Automatic Change Detection of Buildings	Satoshi Nakamura(Keio University)
19	TA04	[OS] Advanced Pattern Measurement I	Detecting and Tracking multiple fluorescence spot in Noisy DXT Image Sequence	Reo Sakakura(Keio University)
19	TA04	[OS] Advanced Pattern Measurement I	Object Tracking System by Pan-Tilt Moving Cameras and Robot Using Condensation Method	Hiroyuki Ukida(The University of Tokushima)
19	TA04	[OS] Advanced Pattern Measurement I	Imaging velocimetry of range motion based on "moire Doppler effect" and frequency estimation	Yasuhiro Mochida(The University of Tokyo), Toru Kurihara(The University of Tokyo), Shigeru Ando(The
19	TA05	Control for Industrial Applications	Design and Implementation of Nonlinear Speed Controller with Adaptive Backstepping Sliding Mode Control Technique for an IPMSM Drive System	Cheng-Kai Lin(National Taiwan University), Li-Chen Fu(National Taiwan University), Tian-Hua Liu(National Taiwan University of Science and Technology)
19	TA05	Control for Industrial Applications	Data-Driven Optimal Control for Building Energy Conservation	Junya Nishiguchi(Yamatake Corporation), Tomohiro Konda(Yamatake Corporation), Ryota Dazai(Yamatake Corporation)
19	TA05	Control for Industrial Applications	Adaptive Backstepping Servo Control for IPMSM Drive Systems with MTPA - An Implicit and Symbolic Computation Approach	Jen-te Yu(National Taiwan University), Cheng-Kai Lin(National Taiwan University), Li-Chen Fu(National Taiwan University), Tian-Hua Liu(National Taiwan University of Science and Technology)
19	TA05	Control for Industrial Applications	SOS Analysis of Cooling Control of Hot Strips in Transition Boiling Region	Shigemasa Nakagawa(Sumitomo Metal Industries, Ltd.), Kentaro Hirata(Nara Institute of Science and Technology), Kenji Sugimoto(Nara Institute of Science and Technology)
19	TA05	Control for Industrial Applications	Dynamic Simulation and Experimental Study of Impedance Control for Robotic Orthosis to Assist Overhead Operations in Shipbuilding Process	Namkug Ku(Seoul National Univercity), Jung-Han Kwon(Daewoo Shipbuilding & Marine Engineering), Ju-hwan Cha(Seoul National University), Kyu-Yeul Lee(Seoul National Univercity), Sol Ha(Seoul National University), Kwnag-Phil Park(Seoul National University), Yoon-ok Cho(Seoul National University), Joon-chae Lee(Seoul

19	TA05	Control for Industrial Applications	Robust Rebound Suppression Control for Push-pull Solenoid Considering the Characteristic Change During Operation	Hokuto Mizutani(Toyohashi University of Technology), Yoshiyuki Noda(Toyohashi University of Technology), Takanori Miyoshi(Toyohashi University of Technology), Kazuhiko Terashima(Toyohashi University of Technology)
19	TA06	[OS] Adaptive & Learning Control I	Model-Based PFC Design based on Time-Varying ASPR Model for Anti-Windup Adaptive PID Control	Ikuro Mizumoto(Kumamoto University), Akihiro Minami(Kumamoto University), Zenta Iwai(Kumamoto Prefectural College of Technology)
19	TA06	[OS] Adaptive & Learning Control I	Improvement in Performance-adaptive Control System for a Weigh Feeder	Shohei Kitano(University of Hyogo), Takao Sato(University of Hyogo), Nozomu Araki(University of Hyogo), Toru Yamamoto(Hiroshima University)
19	TA06	[OS] Adaptive & Learning Control I	A Design Mehtod of Ideal Vehicle Models in Adaptive Driver-Combined-Vehicles System	qiang wang(Kyushu Institute of Technology), Masahiro Oya(Kyushu Institute of Technology)
19	TA06	[OS] Adaptive & Learning Control I	Parameters tuning using RasID Algorithm in Q value-based Dynamic Programming with Boltzmann Distribution	Shanqing Yu(Waseda University), Shingo Mabu(Waseda University), Manoj Kanta Mainali(IPS, Waseda), Kaoru Shimada(Waseda University), Kotaro Hirasawa(Waseda University)
19	TA06	[OS] Adaptive & Learning Control I	Model Matching Adaptive Control of Non-square Multiple-Output-Delay Systems	Haixia Su(Beihang University (BUAA)), Yingmin Jia(The Seventh Research Division, Beihang University (BUAA)), Junping Du(Beijing University of Posts and Telecommunications), Fashan Yu(Henan Polytechnic
19	TA07	[OS] Recent Development on Robustness Analysis, Estimation, Robust and Sampled-Data Control	Controller Synthesis for Multiple Finite Frequency Specifications: Dissipation Inequalities Approach	Chiaki Kojima(The University of Tokyo), Shinji Hara(The University of Tokyo)
19	TA07	[OS] Recent Development on Robustness Analysis, Estimation, Robust and Sampled-Data Control	Robust Control for Input Time-Delay Systems: Disturbance Observer Approach	In Hyuk Kim(Myongji University), Goo Jong Jeong(Myongji University), Young Ik Son(Myongji University)
19	TA07	[OS] Recent Development on Robustness Analysis, Estimation, Robust and Sampled-Data Control	Robust Stabilization and Robust H_inf Design for Descriptor Systems with Uncertainties in all System Matrices: An LMI Approach	Li Lee(National Sun Yat-Sen University)
19	TA07	[OS] Recent Development on Robustness Analysis, Estimation, Robust and Sampled-Data Control	Robot Localization and Mapping by Matching the Environmental Features from Proprioceptive and Exteroceptive Sensors	Feng-Li Lian(National Taiwan University)
19	TA07	[OS] Recent Development on Robustness Analysis, Estimation, Robust and Sampled-Data Control	Shift-Invariant Representation of Two Periodic System Classes Defined Over Doubly-Infinite Continuous Time	Sei Zhen Khong(University of Melbourne), Michael Cantoni(University of Melbourne)
19	TA07	[OS] Recent Development on Robustness Analysis, Estimation, Robust and Sampled-Data Control	Stability analysis for a class of Hamiltonian systems with digital control	Shinji Kawakami(Kyoto University), Hisaya Fujioka(Kyoto University)

19	TA08	Model Predictive Control	Constrained Nonlinear Receding Horizon Control Using Artificial Potential	Yusuke Kondo(Nara Institute of Science and Technology), Shunsuke Matoba(Nara Institute of Science and Technology), Hisakazu Nakamura(Nara Institute of Science and Technology), Hirokazu NISHITANI(Nara Institute of
19	TA08	Model Predictive Control	High-order numerical integration for Receding horizon control with a continuation method	Shunsuke Matoba(Nara Institute of Science and Technology), Hisakazu Nakamura(Nara Institute of Science and Technology), Hirokazu NISHITANI(Nara Institute of
19	TA08	Model Predictive Control	Model Predictive Control of Current and Voltage for Li-Ion Battery Charger using 3-Phase AC/DC Converter	JAE SIK LIM(Seoul National University of Technology), Young Il Lee(Seoul National University of Technology)
19	TA08	Model Predictive Control	A Real-time Algorithm for Nonlinear Receding Horizon Control of Descriptor Systems	Jun Marutani(Osaka university), Toshiyuki Ohtsuka(Osaka University)
19	TA08	Model Predictive Control	A hypnosis and analgesia control system using a model predictive controller in total intravenous anesthesia during day-case surgery	Eiko Furutani(Kyoto University), Keigo Tsuruoka(Kyoto University), Shogo Kusudo(Kyoto University), Gotaro Shirakami(Kagawa University), Kazuhiro Fukuda(Kyoto University)
19	TA08	Model Predictive Control	Model based High-performance PMSM Drive Control	Pavel Vaclavek(Brno University of Technology, Faculty of Electrical Eng, and Comm.), Petr Blaha(Brno University of Technology, Faculty of Electrical Eng, and Comm.)
19	TA09	Neural Networks and Computational Intelligence	Performance Analysis of Complex-valued Neural Networks with Stochastic Resonance	Naoto Kaihatsu(University of Hyogo), Teijiro ISOKAWA(University of Hyogo), Haruhiko Nishimura(University of Hyogo), Nobuyuki
19	TA09	Neural Networks and Computational Intelligence	A Two Phase Method for Determining the Number of Neurons for the Hidden Layer of a 3-Layer Neural Network	Kazuhiro Shinike(Maizuru National College of Technology)
19	TA09	Neural Networks and Computational Intelligence	Switching Reinforcement Learning to Mimic an Infant's Motor Development - Application to Two-dimensional Continuous Action Space -	Masato Nagayoshi(Niigata College of Nursing), Hajime Murao(Kobe University), Hisashi Tamaki(Kobe University)
19	TA09	Neural Networks and Computational Intelligence	Inverse Estimation of Distributed Generation by Complex-Valued Network Inversion	Takehiko Ogawa(Takushoku University), Seisho Fukami(Takushoku University), Hajime Kanada(Takushoku University)
19	TA09	Neural Networks and Computational Intelligence	Adaptive_State_Partition_for_Reinforcement_Learning	Yu-Jen Chen(National Chung Cheng University), Kao-Shing Hwang(National Chung Cheng University), Wei-Cheng Jiang(National Chung Cheng University)
19	TA09	Neural Networks and Computational Intelligence	Interval Type-2 Recurrent Fuzzy Neural System with Asymmetric Membership Functions for Chaotic System	Ching-Hung Lee(Yuan Ze University)
19	TA10	[OS] International Standardization on Automation System	First Year Contribution to International Standardization Activities by SICE	Kazuo Seo(Mitsubishi Electric Corp.), Masaharu Ogawa(Mitsubishi Electric Corp.), Kazuo Kyuma(Mitsubishi Electric Corp.), Seiichi Shin(University
19	TA10	[OS] International Standardization on Automation System	Standardization of Key Performance Indecator for Manufacturing Execution System	Yoshiro Fukuda(Hosei University)

19	TA10	[OS] International Standardization on Automation System	RECENT PROGRESS OF ROBOTIC VOCABULARY STANDARDIZATION EFFORTS IN ISO	Seungbin Moon(Sejong University), SOON-GEUL LEE(Kyung Hee University), Kwang-Ho Park(Korea Agency for Technology and Standards)
19	TA10	[OS] International Standardization on Automation System	Education of Automation Infrastructure Based on International Standards	Amphawan Julsereewong(King Mongkut's Institute of Technology Ladkrabang), Sawai Pongswatd(King Mongkut's Institute of Technology Ladkrabang), Srinakorn Nontanakorn(Fieldbus Foundation Thai Association), Hisashi Sasajima(Yamatake Corporation), Tsuyoshi Kitai(Yamatake Corporation)
19	TA11	Advances in Measurement	Measurement and analysis of tennis swing motion using 3D gyro sensor	Yuri Iijima(Hosei University), Kajiro Watanabe(Hosei University), Kazuyuki Kobayashi(Hosei University)
19	TA11	Advances in Measurement	Measurement of static electricity generated by human walking	Yuki Bunda(Hosei University), Kajiro Watanabe(Hosei University), Kazuyuki Kobayashi(Hosei University)
19	TA11	Advances in Measurement	Improvements in Accurate GPS Positioning Using Time Series Analysis	Yuichiro Koyama(Keio University), Toshiyuki Tanaka(Keio University)
19	TA11	Advances in Measurement	Coherent Change Detection with Complex Logarithm Transformation on SAR Imagery	TAKEHIRO HOSHINO(University of Electro-Communications), Shouhei KIDERA(University of Electro-Communications), Tetsuo KIRIMOTO(University of
19	TA11	Advances in Measurement	Position Measurement System for Cylindrical Objects Using Laser Range Finder	Hajime Tamura(The University of Tokyo), Takeshi Sasaki(University of Tokyo), xiangqi huang(The University of Tokyo), Hideki HASHIMOTO(University of Tokyo), Fumihiro Inoue(Obayashi Corporation)
19	TA11	Advances in Measurement	Neutron Detection with NE213 Liquid Scintillator and Helium-3 Proportional Tube Detector	Bei-Zhen Hu(National Chiao Tung University Institute of Physics), Chung-Hsiang Wang(Department of Electro-Optical Engineering, National United University), Liq-Ji Yuan(Department of Biomedical Engineering and Environmental Sciences,NTHU), Guey-Lin Lin(Institute of Physics, National Chiao Tung University), Huan Niu(Nuclear Science and Technology Development Center
19	TA12	Electrical Systems	Design of the Robust Backstepping Tracking Controllers for Synchronous Generators	Chih-Chiang Cheng(NSYSU), Yu-Feng Kuo(National Sun Yat-Sen University), Ming-Shan Kung(National Sun Yat-
19	TA12	Electrical Systems	Static Var Compensator Using Remote Signal	Pei-Hwa Huang(National Taiwan Ocean University), Ta-Hsiu Tseng(National Taiwan Ocean University)
19	TA12	Electrical Systems	Performance Measurement of Static Var Compensators in Distribution System	Pei-Hwa Huang(National Taiwan Ocean University), Yi-Kuan Ke(National Taiwan Ocean University)
19	TA12	Electrical Systems	Loop Filter Design for Fourth-order Charge-Pump PLL Using Linearized Discrete-Time Model	Fan-Ren Chang(National Taiwan University), Yu-Cheng Chen(National Taiwan University)
19	TA12	Electrical Systems	Design a Low-Noise Operational Amplifier with Constant-gm	Jui-Lin Lai(National United University), Cheng-Fang Tai(National United University), Rong-Jian Chen(National

19	TA12	Electrical Systems	Analysis and Design of SC DC-DC Converter for Maximum Efficiency	Wandee Petchmaneelumka(King Mongkut's Institute of Technology Ladkrabang), Sawai Pongswatd(King Mongkut's Institute of Technology Ladkrabang), Eguchi Kei(Shizuoka University), Sasaki Hirofumi(Tokai University), Yongyuth Prapamonton(King Mongkut's Institute of Technology Ladkrabang)
19	TA13	[OS] Applications of Satellite Navigations	SLERP-Based Optimal TRIAD Algorithm	Fan-Ren Chang(National Taiwan University), Shu-Wei Chang(National Taiwan University), Yi-Te Chiang(Lee-Ming Institute of Technology)
19	TA13	[OS] Applications of Satellite Navigations	Applying Fuzzy Gain Scheduling Technique for GPS-Based Unmanned Vehicle Navigation and Control	Shun-Hung Chen(National Cheng Kung University), Yu-Chun Li(National Chen-Kung University), Jyh-Ching Juang(National Cheng Kung University)
19	TA13	[OS] Applications of Satellite Navigations	Evaluation of Local Aera GPS Quality Monitoring Algorithms in Taipei Flight Information Region	Shau-Shiun Jan(National Cheng Kung University)
19	TA13	[OS] Applications of Satellite Navigations	GPS Receiver Tracking Loop Optimization Based on a Behavioral Approach	He-Sheng Wang(National Taiwan Ocean University)
19	TA13	[OS] Applications of Satellite Navigations	A Method of Exploiting Precise Satellite Orbits for GPS Positioning by Scalar Corrections	Hung-Wei Chen(National Taiwan University), Yi-Te Chiang(Lee-Ming Institute of Technology), Fan-Ren Chang(National Taiwan University), He-Sheng
19	TA14	Human Interfaces	Large Aperture Airborne Ultrasound Tactile Display Using Distributed Array Units	Masafumi Takahashi(The University of tokyo), Hiroyuki Shinoda(The University of Tokyo)
19	TA14	Human Interfaces	Articulated Multilateral Control for Adaptation to Variation of System Connection	Takumi Ishii(Keio University, Yokohama, Japan), Seiichiro Katsura(Keio University)
19	TA14	Human Interfaces	Analysis of Environmental Surface Data Using Haptic Scanner	Hiroyuki Nagai(Keio University), Seiichiro Katsura(Keio University)
19	TA14	Human Interfaces	Relationship between Brightness Illusion and Recognition Performance in Human-Computer Interaction	Yuzo TAKAHASHI(Hiroshima City University)
19	TA14	Human Interfaces	Design of New Braille Display using Inverse Principle of Tuned Mass Damper	KIYOSHI IOI(Kinki University), Yoshihisa Kawaguchi(Kinki University), Yoshikazu Ohtsubo(Kinki
19	TA14	Human Interfaces	Observations of Airflow Arising from Airborne Ultrasound Tactile Display	Takayuki Hoshi(Kumamoto University), Yuta Nishiyama(Kumamoto University), Ippei Torigoe(Kumamoto University)
19	TA15	[OS] Kukanchi	Development of Infrared Communication Device using RT Middleware	Kazuyoshi Wada(Tokyo Metropolitan University), Keisuke Tanaka(Tokyo Metropolitan University), Hayato Takayama(Tokyo Metropolitan University)
19	TA15	[OS] Kukanchi	Information recommendation system for the care prevention using a communication robot	Kazumasa Murakami(Tokyo Metropolitan University), Tomomi Shibano(Tokyo Metropolitan University), Yasunari Fujimoto(Tokyo Metropolitan University), Toru Yamaguchi(Tokyo Metropolitan University)

19	TA15	[OS] Kukanchi	Domestic Robot System Considering Generalization	Takahiro Iijima(Tokyo Metropolitan University), Eri Sato Shimokawara(Tokyo Metropolitan University), Toru Yamaguchi(Tokyo Metropolitan University)
19	TA15	[OS] Kukanchi	Information Reduction for Environment Perception of an Intelligent Robot Arm Equipped with a 3D Range Camera	Hiroyuki Masuta(Tokyo metropolitan university), Naoyuki Kubota(Tokyo Metropolitan University)
19	TA15	[OS] Kukanchi	Indoor Positioning with Pseudolites	Yoshihiro Sakamoto(Waseda University), Haruhiko Niwa(Waseda University), Takuji Ebinuma(Tokyo University of Marine Science and Technology), Kenjiro Fujii(Hitachi Industrial Equipment Systems Co., Ltd.),
19	TA15	[OS] Kukanchi	Dosing Timing Recognition by Ubiquitous Sensors	Takuo Suzuki(University of Tsukuba), Yasushi Nakauchi(University of Tsukuba)
19	TA17	Robotic System Control	Establishment of Common Coordinate System by using Migration of Autonomous Robot Herd	Koji MAKINO(Tokyo University of Technology), Jin-Hua SHE(Tokyo University of Technology), Yasuhiro OHYAMA(Tokyo University of Technology)
19	TA17	Robotic System Control	Hybrid Fuzzy Control of an Eye-to-Hand Robotic Manipulator for Autonomous Assembly Tasks	Wen-Chung Chang(National Taipei University of Technology), Chia-Kai Shao(National Taipei University of
19	TA17	Robotic System Control	Hybrid Eye-to-Hand and Eye-in-Hand Visual Servoing for Autonomous Robotic Manipulation	Wen-Chung Chang(National Taipei University of Technology), Chia-Kai Shao(National Taipei University of
19	TA17	Robotic System Control	Passive Control of A Dual-Arm Cooperative Robot	Kosuke Kido(Kobe University), Zhi-Wei Luo(Kobe University), Akinori Nagano(Kobe University)
19	TA17	Robotic System Control	Toward the Compact Design of a Robotic Waveguide for Active Line Duplication	Koichi Yoshida(NTT)
19	TA17	Robotic System Control	Adaptive Backstepping Controller for Triple Rotary Joint Manipulator	Jadesada Maneeratanaporn(Sirindhorn International Institute of Technology), pakpoom Patompak(Sirindhorn International Institute of Technology, Thammasat university), siripong varongkriengkrai(Sirindhorn International Institute of Tehnology), Itthisek Nilkhambang(Sirindhorn International Institute of
19	TA18	Man-Machine Systems and Human-Robot Interaction	Pressure Control on Whole Surface of Humanmimetic Multi-fingered Hand with Tactile Sensing	Taisuke Sugaiwa(Waseda University), Kunihiro Iwamoto(Waseda University), Hiroyasu Iwata(Waseda University), Shigeki Sugano(Waseda University)
19	TA18	Man-Machine Systems and Human-Robot Interaction	Relative Spectral Power (RSP) and Temporal RSP as Features for Movement Imagery EEG Classification with Linear Discriminant Analysis	MANOJ KUMAR MUKUL(UEC), FUMITOSHI MATSUNO(KYOTO UNIVERSITY)
19	TA18	Man-Machine Systems and Human-Robot Interaction	Three - Channel Electroencephalogram (EEG) Signal Analysis by Independent Component Analysis and Classification by Linear Discriminant Analysis.	MANOJ KUMAR MUKUL(UEC), FUMITOSHI MATSUNO(KYOTO UNIVERSITY)

19	TA18	Man-Machine Systems and Human-Robot Interaction	Learning by Demonstration for Tool-Handling Task	Kuu-young YOUNG(National Chiao-Tung University), Hoa-yu Chan(National Chiao Tung University), Hsin-Chia Fu(National Chiao Tung University)
19	TA18	Man-Machine Systems and Human-Robot Interaction	The Workability of Sliding Perturbation Observer as Haptic Signal at the Surgical Robot Instrument	Chiyen Kim(Pusan National University), mincheol Lee(Pusan National University), SeokJo Go(Dong-Eui Institute of Technology)
19	TA18	Man-Machine Systems and Human-Robot Interaction	Pain Perception Model of Human Skin Using Multiple Pain Sensors	Aydin Tarik Zengin(Kumamoto University), Nobutomo MATSUNAGA(Kumamo University), Hiroshi Okajima(Kumamoto University), Shigeyasu
19	TA19	Vehicle Control	Applying Generalized Minimum Variance Control for Ship's steering control system	Masayoshi Doi(Hiroshima Institute of Technology), Kazuhisa Nagamoto(Yuge National College of Maritime Technology), Yutaka Osaka(IHI corpolation), Tetsuya Takehira(Joint Staff, Ministry of Defense), Yasuchika Mori(Tokyo Metropolitan University)
19	TA19	Vehicle Control	Feedback Control of a Suspension System with Non-Model-Based Velocity and Acceleration Estimators	Yuta Kitsuka(Oita University), Tsuyoshi Nimiya(Oita University), Haruo Suemitsu(Oita University), Takami
19	TA19	Vehicle Control	A Movement Control on Indoor Blimp Robots	Akira Shimada(Shibaura Institute of Technology), Hayato Furukawa(Shibaura Institute of Technology), Yutaka Uchimura(Shibaura Institute of Technology)
19	TA19	Vehicle Control	Spin-Axis Stabilization of Gyroless and Underactuated Rigid Spacecraft Using Modified Rodrigues Parameters	Yee-Jin Cheon(Korea Aerospace Research Institute)
19	TA19	Vehicle Control	A Study of SDRE and ISMC Combined Scheme with Application to Vehicle Brake Control	Yew-Wen Liang(National Chiao Tung University), Der-Cherng Liaw(National Chiao Tung University), Yuan-Tin Wei(National Chiao Tung University), Li-Gang Lin(National Chiao Tung University)
19	TA19	Vehicle Control	Transient Control of Air Intake system in Diesel Engines	Arata Ejiri(Fujitsu Laboratories Ltd.), Jun Sasaki(Transtron Inc.), Yusuke Kinoshita(Transtron Inc.), Keiji Shimotani(Transtron Inc.), Ryuji Iizawa(Transtron Inc.)
19	TB01	Control Applications I	Design of Observation for Multi-qubit Preparation based on Equilibrium Point Analysis	Daisuke Matsuna(The University of Tokyo), Koji Tsumura(The University of Tokyo)
19	TB01	Control Applications I	Synchronization Detection of Biological CAM Plants Using Instantaneous Lyapunov Exponent	Yusuke Totoki(Oita University), Akira Goto(Oita University), Haruo Suemitsu(Oita University), Takami
19	TB01	Control Applications I	Design of State Predictive Congestion Controllers considering Effective Equilibrium Points	Takehito Azuma(Utsunomiya University), Kazuki Fukuyama(Utsunomiya univ.)
19	TB01	Control Applications I	2DOF Control System Design for Maneuverability Matching and Gust Disturbance Rejection in In-Flight Simulator MuPAL-alpha	Yoshio Ebihara(Kyoto University), Yoshinori Fujiwara(Kyoto University), Tomomichi Hagiwara(Kyoto University), Masayuki Sato(JAXA)

19	TB01	Control Applications I	An Analysis on Two-Joint Tendon Driven Hybrid Control Systems	Akira Shimada(Shibaura Institute of Technology), Atsushi Maruta(Shibaura Institute of Technology), Yutaka Uchimura(Shibaura Institute of Technology)
19	TB01	Control Applications I	Quadratic Programming for Monotone Control Theoretic Splines	Masaaki Nagahara(Kyoto University), Clyde Martin(Texas Tech University), Yutaka Yamamoto(Kyoto University)
19	TB02	[OS] Service Engineering and Interface to Support High-Quality	A measuring method of satisfaction rating in service engineering	Mitsunari Uozumi(Mitsubishi Electric Corp.), Hajime Asama(Univ. of Tokyo)
19	TB02	[OS] Service Engineering and Interface to Support High-Quality Life I	Development of an EMG acquisition system of universal bio-signal interface for high-quality life	Hiroyuki Kobayashi(Osaka Institute of Technology), Tetsuya Sasakura(Osaka Institute of Technology), Minoru Ishidzuka(Osaka Institute of Technology)
19	TB02	[OS] Service Engineering and Interface to Support High-Quality Life I	Adaptive Rate Datagram Protocol Suitable for Real-Time Communication in Ad-Hoc Networks	Toshinori Tsuboi(Tokyo University of Technology), Chang Yi-Luo(Tokyo University of Technology), Komuro Nobuyoshi(Chiba University), Ueda Hiromi(Tokyo
19	TB02	[OS] Service Engineering and Interface to Support High-Quality Life I	Dynamical Analysis of Grasping with Hand Model for High Quality Product Design	Hiroshi Hashimoto(Advanced Institute of Industrial Technology), Akinori Sasaki(Tokyo Engineering University), Sho Yokota(Setsunan University), Hideki Murakoshi(Advanced Institute of Industrial Technology), Yasuhiro OHYAMA(Tokyo University of Technology)
19	TB02	[OS] Service Engineering and Interface to Support High-Quality Life I	A service design methodology based on the discrete event simulation -Proposal of the PLAN-	SEIICHI KAWATA(Advanced Institute of the Industrial Technology), Yosuke TENMA(Advanced Institute of the Industrial Technology), Harunobu SATAKUNI(Advanced Institute of the Industrial Technology), Chinatsu SUGITA(Advanced Institute of the Industrial Technology), Tsuyoshi AZIRO(Advanced Institute of the Industrial Technology), Hiroshi Hashimoto(Advanced Institute of Industrial Technology)
19	TB03	Autonomous Decentralized Systems	Swarm Robot simulation using Object-oriented programming	Somar Muhammad Boubou(Kyushu Institute of Technology), Yoshihiko TAGAWA(Kyushu Institute of
19	TB03	Autonomous Decentralized Systems	Theoretical and Experimental Study on Excluded Volume Effect in Pedestrian Queue	Daichi Yanagisawa(The University of Tokyo and Japan Society for the Promotion of Science), Yuki Tanaka(The University of Tokyo), Rui Jiang(University of Science and Technology of China), Akiyasu Tomoeda(Meiji University and The University of Tokyo), Kazumichi Ohtsuka(The University of Tokyo), Yushi Suma(The University of Tokyo), Katsuhiro Nishinari(The University of Tokyo)
19	TB03	Autonomous Decentralized Systems	Determining the Length of Static Message for Efficient Use of FlexRay Network	Byungseok Seo(Kyungpook National University), Dongik Lee(Kyungpook National University)

19	TB03	Autonomous Decentralized Systems	Agent-Based Modeling for Analyzing Labor Migration in Economic Activities	Bin JIANG(Interdisciplinary Graduate School of Science and Engineering, Tokyo Institute of Technology), Rio NISHIDA(Tokyo Institute of Technology), Takashi YAMADA(Tokyo Institute of Technology), Takao Terano(Tokyo Institute of Technology)
19	TB03	Autonomous Decentralized Systems	Detection Method to Continue Tracking of Automatic Human Tracking System	Shinya Iwasaki(Tottori University), Hiroto Kakiuchi(System Engineering Department), Toshihiko Sasama(Tottori University), Takao Kawamura(Tottori University), Kazunori Sugahara(Tottori University)
19	TB03	Autonomous Decentralized Systems	A Method of Transparent Swapping Control for Mobile Agents	Masayuki Higashino(Tottori University), Toshihiko Sasama(Tottori University), Takao Kawamura(Tottori University), Kazunori Sugahara(Tottori University)
19	TB04	[OS] Advanced Pattern Measurement II	High Accuracy Analysis Method for 3D Nanoscale Deformation / Fracture Characteristics inside a Material	Mitsuru Nakazawa(Keio University), Masakazu Kobayashi(Toyohashi University of Technolog), Hiroyuki Toda(Toyohashi University of Technolog), Yoshimitsu Aoki(Keio University,Faculty of Science and Technology,)
19	TB04	[OS] Advanced Pattern Measurement II	Severity Analysis of Pulmonary Emphysema based on the Comparison of Expiratory and Inspiratory States	Kazuaki Neda(Keio University), Toshiyuki Tanaka(Keio University), Toru Shirahata(Keio University), Hiroaki Sugiura(Keio University)
19	TB04	[OS] Advanced Pattern Measurement II	Accurate Estimation of Tone Duration in Automatic Music Transcription	Noboru Funakoshi(Keio University), Toshiyuki Tanaka(Keio University)
19	TB04	[OS] Advanced Pattern Measurement II	Reduction of Poisson Noise for Time-Resolved Diffuse Optical Measurement	Shinpei Okawa(The University of Electro-Communications), Yukio Yamada(The University of
19	TB04	[OS] Advanced Pattern Measurement II	Fast Positioning using N4SID Model Referenced Predictive Anti-phase Pitch Driving Vibration Suppression	Kazuaki Akagi(Advanced Pattern Measurement II), sumiya hideyasu(Advanced Pattern Measurement III)
19	TB06	[OS] Adaptive & Learning Control II	A Simple Redesign of Model Reference Adaptive Control for State-Delayed Systems with General Relative Degrees	Yoshihiko Miyasato(The Institute of Statistical Mathematics)
19	TB06	[OS] Adaptive & Learning Control II	Generalized Structure for Stable Model Reference Adaptive Control System	Seitaro Tanahashi(National Defense Academy), Keietsu Itamiya(National Defense Academy)
19	TB06	[OS] Adaptive & Learning Control II	Control Performance Amelioration with Gain Retuning	Yoshihiro Ohnishi(Ehime University)
19	TB06	[OS] Adaptive & Learning Control II	Design of a Data-Driven Internal Model Controller	Kento Tsutsumi(Hiroshima University), Toru Yamamoto(Hiroshima University)
19	TB06	[OS] Adaptive & Learning Control II	Estimation of a Transition Time in Piecewise Linear Systems	Kenji Ikeda(The University of Tokushima), Tomoaki Kashiwao(Niihama National Collage of Technology), Shimomura Takao(The University of Tokushima)
19	TB06	[OS] Adaptive & Learning Control II	Conditions for mixed small gain and positive real property for LTI systems	Sirisak Wongsura(The University of Tokyo), Lu Liu(The University of Tokyo), Shinji Hara(The University of Tokyo)
19	TB07	[OS] Tracking Control with Some Control Issues	State-Space Controller Design for Stabilization of Descriptor Systems	Masaki Inoue(Osaka University), Teruyo Wada(Osaka University), Masao Ikeda(Osaka University)

19	TB07	[OS] Tracking Control with Some Control Issues	Trajectory Tracking and Collision Avoidance Against a Non-cooperative Omnidirectional Vehicle Based on Minimal Collision Time	Isoda Naritaka(Osaka University), Ayumu Kitagaki(Osaka University), Toru Asai(Osaka University)
19	TB07	[OS] Tracking Control with Some Control Issues	A design procedure of discrete-time tracking control systems with actuator saturation	Kenji Sawada(The University of Electro-Communications), Tsuyoshi Kiyama(Osaka university)
19	TB07	[OS] Tracking Control with Some Control Issues	Direct Yaw-Moment Control Method for Electric Vehicles to Follow the Desired Path by Driver	Hiroshi Okajima(Kumamoto University), Shouhei Yonaha(Kumamoto Univ.), Nobutomo MATSUNAGA(Kumamo University), Shigeyasu
19	TB07	[OS] Tracking Control with Some Control Issues	Extension of Reference Signal in Iterative Learning Control for Non-minimum Phase Systems	Chee Leong Ooi(Deutsche Securities), Toru Asai(Osaka University), Hiroshi Okajima(Kumamoto University)
19	TB08	Networked Sensing and Control Systems I	Switching Control Algorithm for Sensor Scheduling	Yuta Kochiyama(Keio University), Hirotmitsu Ohmori(Keio University)
19	TB08	Networked Sensing and Control Systems I	Outlier detection technique for RSS-based localization problem in wireless sensor networks	Yu Chi Chen(National Cheng Kung University), Jyh-Ching Juang(National Cheng Kung University), Wei-Chih Sun(National Cheng Kung University)
19	TB08	Networked Sensing and Control Systems I	Output feedback controller design of networked control systems	Young Jun Yoo(POSTECH), Jahoo Koo(POSTECH), Sang-Chul Won(POSTECH)
19	TB08	Networked Sensing and Control Systems I	Synch-free RF time-of-flight measurement system for wireless sensor networks based on vernier effect	SANG-IL KO(Tokyo Institute of Technology), Aikawa Go(Tokyo Institute of Technology), Junya Takayama(Tokyo Institute of Technology), Shinji OHYAMA(Tokyo Institute
19	TB08	Networked Sensing and Control Systems I	Compensating Network Delays for Smart Actuator Using Lagrange Polynomial Curve Fitting	Sunyoung Kang(Kyungpook National University), Dongik Lee(Kyungpook National University)
19	TB08	Networked Sensing and Control Systems I	A Robust Adaptive Algorithm for Teleoperation System with Time Delay	Suangsamorn Nurung(Sirindhorn International Institute of Tehnology, Thammasat University), Itthisek Nilkhamhang(Sirindhorn international institute of technology, Thammasat university)
19	TB09	[OS] Evolutionary Technology and its Applications I	Effective Diversification of Ant-Based Search by Considering Agent Traffic in Edges	Akira Hara(Hiroshima City University), Souichi Tanabe(Hiroshima City University), Takumi Ichimura(Prefectural University of Hiroshima), Tetsuyuki
19	TB09	[OS] Evolutionary Technology and its Applications I	Construction of Players' Action for Robocup Soccer Using Graph Structured Program Evolution	Yasuaki Horima(Yokohama National University), Shinichi Shirakawa(Yokohama National University), Noriko Yata(Yokohama National University), Tomoharu Nagao(Yokohama National University)
19	TB09	[OS] Evolutionary Technology and its Applications I	Estimation of ZigBee's RSSI fluctuated by Crowd Behavior in Indoor Space	Masaya Arai(Hokkaido University)

19	TB09	[OS] Evolutionary Technology and its Applications I	Particle Filter Based Indoor Localization with ZigBee Sensor Networks	Junpei Tsuji(Hokkaido University), Hidenori Kawamura(Hokkaido University), Keiji Suzuki(Hokkaido University), Takeshi Ikeda(National Institute of Advanced Industrial Science and Technology), Akio Sashima(National Institute of Advanced Industrial Science and Technology), Koichi Kurumatani(National Institute of Advanced
19	TB10	[OS] Challenges for Information Sharing on Industrial Network I	Energy efficiency requires information sharing on industrial networks	Tsutomu Yamada(Hitachi, Ltd.), Masatoshi Takano(TOYOTA MOTOR CORPORATION), Takayanagi Yoichi(TOSHIBA CORPORATION), Itou Akio(Yokogawa
19	TB10	[OS] Challenges for Information Sharing on Industrial Network I	Extending field device functionality using FDT/DTM Technology	Itou Akio(Yokogawa Electric Corporation)
19	TB10	[OS] Challenges for Information Sharing on Industrial Network I	Combination of FDT and EDDL technologies	Stefan Lugert(Endress+Hauser Process Solutions AG), Sandra Gisy(Endress+Hauser Process Solutions), Kato Mamoru(Endress+Hauser Japan)
19	TB10	[OS] Challenges for Information Sharing on Industrial Network I	OPC Server for Real-Time Ethernet	Genki Tateno(TOSHIBA CORPORATION), yoshitomo mizoguchi(TOSHIBA), masako koyama(TOSHIBA), Takayanagi Yoichi(TOSHIBA CORPORATION), Akira Nojima(TOSHIBA MITSUBISHI-ELECTRIC INDUSTRIAL SYSTEMS CORPORATION)
19	TB10	[OS] Challenges for Information Sharing on Industrial Network I	Multiprexing by MIMO that FA expects	Hisato Yoneda(Murata Machinery, LTD.), Kenji Kumagai(Murata Machinery, LTD.)
19	TB11	Image Processing	Motion Segmentation Scheme using Multichannel Optical Flow Estimator	Teruo YAMAGUCHI(Kumamoto University), Jun Hirai(Kumamoto University)
19	TB11	Image Processing	Perceptual Equivalence of Environmental Saliency in Naturally Complex Scene	Kohji Kamejima(Osaka Institure of Technology)
19	TB11	Image Processing	Extraction of Dense Urban Area from High Resolution Satellite Images	Yuta Mizumoto(Nagasaki University), Senya Kiyasu(Nagasaki University), Kotaro Sonoda(Nagasaki University), Sueharu Miyahara(Nagasaki University)
19	TB11	Image Processing	Active Distance Measurement Based on Structured Light	Sooyeong Yi(Seoul National University of Technology)
19	TB11	Image Processing	Velocity Measurement of River Flow for River Disaster Prevention	Hideto Nishikado(Ritsumeikan University), Shigeru TAKAYAMA(Ritsumeikan University BKC)
19	TB11	Image Processing	A PROGRASSIVE APPROACH FOR BUILDING EXTRACTION BY FUSING LIDAR DATA AND CO-	Hong Wei(University of Reading), wei Xu(Surrey University)
19	TB12	Mechatronic Systems and Control I	An Embedded System reducing Backward Swinging Noise of Windshield Wiper	Yoichi Shiraishi(Gunma University), Youg Zhe Chu(Gunma University), Wataru Kawauchi(Gunma University), Mona Abd El Baset Mahmoud Abo El-Dahb(Gunma University), Takanori Saito(Realize Computer Engineering)

19	TB12	Mechatronic Systems and Control I	Development and Application of Flexible Pneumatic Cylinder with Linear Encoder	Akimasa Fukuhara(Okayama University of Science), Tetsuya Akagi(Okayama University of Science), Shujiro Dohta(Okayama University of Science)
19	TB12	Mechatronic Systems and Control I	Dynamic Analysis of a Three-Axis Robot Wrist and Optimization of Its Structure	Hong Dae Sun(Changwon National University), Jang U-il(Changwon National University), Kwon Jung-Hee(Changwon National University)
19	TB12	Mechatronic Systems and Control I	Maximal Admission of Joint Range of Motion Based on Redundancy Resolution for Kinematically Redundant Manipulators	Masahide Ito(Seikei University), Kazuyoshi Kawatsu(Seikei University), Masaaki Shibata(Seikei University)
19	TB12	Mechatronic Systems and Control I	Development and Analysis of Small-sized Quasi-servo Valve Using On/Off Valves	Tetsuya Akagi(Okayama University of Science), Shujiro Dohta(Okayama University of Science), FeiFei Zhao(Okayama University of Science), Keiji Fujita(Okayama University of Science)
19	TB12	Mechatronic Systems and Control I	Sliding Mode Control for a Ball and Arc System	Ming-Tzu Ho(NCKU), Sho-Tsung Kao(National Cheng Kung University), Yu-Sheng Lu(NCKU)
19	TB13	[OS] Navigation, Guidance, and Control in Aerospace Systems I	Analyses for Mobility and Control System of Lunar Rover	Shin-Ichiro Nishida(Japan Aerospace Exploration Agency), Sachiko Wakabayashi(Japan Aerospace Exploration
19	TB13	[OS] Navigation, Guidance, and Control in Aerospace Systems I	Low-Thrust Trajectory Optimization Using Second-Order Generating Functions	Mai Bando(Kyoto University), Hiroshi Yamakawa(Kyoto University)
19	TB13	[OS] Navigation, Guidance, and Control in Aerospace Systems I	Control System Design for Visual Based Indoor Inspection Helicopter	Takehiro Higuchi(Yokohama National University), Fuyuto Takeyama(Yokohama National University), Seiya Ueno(Yokohama National University)
19	TB13	[OS] Navigation, Guidance, and Control in Aerospace Systems I	Application of High-Precision two-way Ranging to the spacecraft navigation	Tsutomu Ichikawa(Japan Aerospace Exploration Agency (JAXA))
19	TB13	[OS] Navigation, Guidance, and Control in Aerospace Systems I	Operation Scenario of PLANET-C: Venus Climate Orbiter (AKATSUKI)	Shinichiro Narita(Japan Aerospace Exploration Agency)
19	TB14	Advances in System and Information	Optimizing of Support Plan for New Graduate Employment Market : Reinforcement learning	Keiko MORI(University of Tsukuba), Setsuya KURAHASHI(University of Tsukuba)
19	TB14	Advances in System and Information	A consideration of pan-sharpen images by HSI transformation approach	Yoshihiro Mitani(Ube National College of Technology), Yoshihiko Hamamoto(Yamaguchi University)
19	TB14	Advances in System and Information	Visualizing similar text documents based on 3D dendrogram	tomohito kinoshita(Hosei University), Tomoyuki Ohkubo(Graduate School of Engineering,Hosei University), Kazuyuki Kobayashi(Hosei University), Kajiro Watanabe(Hosei University), Yosuke Kurihara(Seikei
19	TB14	Advances in System and Information	A Memorization Network Model of Normal Environment for Anomaly Detection	Masato Takeda(Yokohama National University), Noriko Yata(Yokohama National University), Tomoharu Nagao(Yokohama National University)

19	TB14	Advances in System and Information	Quantum Annealing via Transverse Interaction with XY-type Anisotropy	Saika Yohei(Wakayama National College of Technology), Saika Yohei(Wakayama National College of Technology), Jun-ichi Inoue(Hokkaido University)
19	TB14	Advances in System and Information	Japanese Language Proficiency Index for Koreans by N400	HISAYA TANAKA(Kogakuin University), Song Chol Choi(Information Science, Kogakuin University)
19	TB15	[OS] Disaster Response Robotics I	Forereaching motion generation of mobile robots for pedestrian face identification	Kazushi Tanaka(Tohoku University), Eijiro Takeuchi(Tohoku University), Kazunori Ohno(Tohoku University), Satoshi Tadokoro(Tohoku University), Toru
19	TB15	[OS] Disaster Response Robotics I	Proposal of a simulation platform to evaluate rescue robots in active disaster environment	Masaru Shimizu(Chukyo University), Yotsukura Shigeru(Meijo University), Takahashi Tomoichi(Meijo
19	TB15	[OS] Disaster Response Robotics I	Measurement of flexed posture for flexible mono-tread mobile track	Tetsuya Kinugasa(Okayama University of Science), Tetsuya Akagi(Okayama University of Science), Kuniaki Ishii(Okayama University of Science), Yuta Otani(Pacific software development), Takafumi Haji(Okayama University of Science), Koji Yoshida(Okayama University of Sicence), Hisanori Amano(National Research Institute of Fire and Disaster), Ryota Hayashi(Kagoshima University), Kenichi Tokuda(Wakayama University), Koichi Osuka(Osaka
19	TB15	[OS] Disaster Response Robotics I	Motion Control of Multi-Linked Stretcher Robot DUCKS	Koichi Osuka(Osaka University), Shingo Isayama(Kobe University)
19	TB15	[OS] Disaster Response Robotics I	Design and Implementation of User Friendly Remote Controllers for Rescue Robots in Fire Sites	YoungDuk Kim(DGIST), JeongHo Kang(Hoya Robot Co. LTD), DukHan Sun(Hoya Robot Co. LTD), Jeonil Moon(Hoseo University), YoungSun Ryuh(KITECH), Jinung An(Daegu Gyeongbuk Institute of Science and
19	TB15	[OS] Disaster Response Robotics I	Wheel & Track Hybrid Robot Platform for Optimal Navigation in an Urban Environment	Jinwook Kim(Daegu Gyeongbuk Institute of Science & Technology), Yoon-Gu Kim(Daegu Gyeongbuk Institute of Science & Technology), Jeong-Hwan Kwak(Daegu Gyeongbuk Institute of Science & Technology), Jinung An(Daegu Gyeongbuk Institute of Science and Technology)
19	TB17	Mobile Robots I	Performance Evaluation of Contra-Rotating Drill for DIGBOT	Ryouhei Abe(University of Tsukuba), youhei kawamura(Univ. of Tsukuba)
19	TB17	Mobile Robots I	A Study of Functions for Robot Returned from Parking to Store Autonomously	Ryoma Arai(Tokyo University of Science), Hiroshi TAKEMURA(Tokyo University of Science), Hiroshi Mizoguchi(Tokyo University of Science)
19	TB17	Mobile Robots I	Development of path planning algorithm using potential field based on two fixed angle laser scanners	Takuya Yamakawa(Hosei University), Kazuyuki Kobayashi(Hosei University), Kajiro Watanabe(Hosei University), Yosuke Kurihara(Seikei University)

19	TB17	Mobile Robots I	Experimantal Verification of Fastest Guidance Control Preventing Carrying Objects from Slipping	Kosuke Okumura(University of Fukui), Masanori Mukono(University of Fukui), Mamoru Minami(Okayama University)
19	TB17	Mobile Robots I	Development of a simulation model for Inner-gas-pipe Inspection Robot: SPRING	Takashi Nishihara(Osaka University), Koichi Osuka(Osaka University), Itaru Tamura(Osaka Gas Co., Ltd.)
19	TB17	Mobile Robots I	Path Planning Through Local Tree Exploration	Jorge Sofrony(Universidad Nacional de Colombia), Edwin Francis Cardenas(Universidad Nacional de Colombia), Luis Miguel Mendez(Universidad Nacional de Colombia)
19	TB18	[OS] Intelligent Human-Machine Systems I	Analysis of Time Delay in User's Awareness of ACC System Mode Transitions	Yukio Horiguchi(Kyoto University), Takanori Suzuki(Kyoto University), Hiroaki Nakanishi(Kyoto University), Tetsuo Sawaragi(Kyoto University)
19	TB18	[OS] Intelligent Human-Machine Systems I	Toward Inference of Driver's Lane-Change Intent under Cognitive Distraction	Huiping ZHOU(University of Tsukuba), Makoto ITOH(University of Tsukuba), Toshiyuki
19	TB18	[OS] Intelligent Human-Machine Systems I	Comparison between emotional and objective views to promote understanding of risks for elderly drivers	Midori Inaba(University of Electro-Communications)
19	TB18	[OS] Intelligent Human-Machine Systems I	New Approach to Evaluating Macroscopic Safety of Platooned Vehicles Based on Shockwave Theory	Hironori Suzuki(Nippon Institute of Technology), Kouichi Matsunaga(Graduate School of Nippon Institute of
19	TB18	[OS] Intelligent Human-Machine Systems I	Behavioral Adaptation to Advanced Driver-Assistance Systems	Toshihiro Hiraoka(Kyoto University), Junya Masui(Kyoto University), Seimei Nishikawa(Kyoto University)
19	TB19	Advances in Control I	Sampled-Data Models for Decouplable Nonlinear Multivariable Systems	Masatoshi Nishi(Kumamoto University), Mitsuaki Ishitobi(Kumamoto University), Liang Shan(Chongqing University), Sadaaki Kunimatsu(Kumamoto University)
19	TB19	Advances in Control I	Complete Intervals for D-stability of Single-Parameter Polynomially-Dependent Matrices - Generalization of the Stability Feeler	Tadasuke Matsuda(Toyota Technological Institute), Michihiro Kawanishi(Toyota Technological Institute), Tatsuo Narikiyo(Toyota Technological Institute)
19	TB19	Advances in Control I	Decentralized Impulsive Control of Uncertain Large Scale	CHENG FA CHENG(National Taiwan Ocean University)
19	TB19	Advances in Control I	Validated Pole Assignment Method based on Verified Numerical Computation	Kentaro Yano(Fukuoka Institute of Technology), Masanobu koga(Kyushu Institute of Technology), Hiromasa Nakashima(Kyushu Institute of Technology)
19	TB19	Advances in Control I	Synthesis of Continuous-time Linear Reset Feedback System with L2 Stability	Atsushi Satoh(Iwate University)
19	TB19	Advances in Control I	An improved Approach to Stability Analysis of Fixed-Point Digital Control Systems under Finite Word Length Effects	Hsien-Ju Ko(Asia University)
19	TC01	Control Applications II	Sloshing Suppression Control of Liquid Container Transfer with Tilting Motion Using Principal Component Analysis	Ryota Shibuya(Toyohashi University of Technology), Yoshiyuki Noda(Toyohashi University of Technology), Kazuhiko Terashima(Toyohashi University of Technology)

19	TC01	Control Applications II	Air-Conditioning Control System using PD Control with Adjustable Manual Reset	Yuji Yamakawa(Univ. of Tokyo), Takanori YAMAZAKI(Oyama National College of Technology), Kamimura Kazuyuki(National Institute for Environmental Studies), Kurosu Shigeru(Research Inst. Crotech")"
19	TC01	Control Applications II	Static and Dynamic Parametric Robust Property with PI Control Tuning of TV-MITE model for Level Control of a	Makoto Katoh(Osaka Institute of Technology)
19	TC01	Control Applications II	Multistep optimal scheduling of automated guided vehicles in a semiconductor fabrication	Fumihiko KATO(The University of Electro-Communications), Seiichi Shin(University of Electro-
19	TC01	Control Applications II	Design and Control of MR Mount for Vibration Isolation	Jinsiang Shaw(National Taipei University of Technology), Ray Pan(National Taipei University of Technology), W. Kuo(Tungnan University), G. Lin(Tungnan University)
19	TC01	Control Applications II	Heat Inflow Control of Peltier Device Based on Heat Inflow Observer	Hidetaka Morimitsu(Keio university), Seiichiro Katsura(Keio University)
19	TC02	[OS] Service Engineering and Interface to Support High-Quality	Evaluation of Activity Level of Daily Life Based on Heart rate and Acceleration	Syunji Yazaki(Tokyo University of Technology), Toshio Matsunaga(Tokyo University of Technology)
19	TC02	[OS] Service Engineering and Interface to Support High-Quality Life II	Construction of Virtual Human Model by using ODE -Study on Sitting Motion-	Sho Yokota(Setsunan University), Hiroshi Hashimoto(Advanced Institute of Industrial Technology), Yasuhiro OHYAMA(Tokyo University of Technology), Jin-Hua SHE(Tokyo University of Technology), Daisuke
19	TC02	[OS] Service Engineering and Interface to Support High-Quality Life II	Camera-based Indoor Navigation for Service Robots	Daisuke Chugo(Kwansei Gakuin University), Shinya Matsushima(The University of Electro-Communications), Sho Yokota(Setsunan University), Kunikatsu Takase(The University of Electro-Communications)
19	TC02	[OS] Service Engineering and Interface to Support High-Quality Life II	Study of Evaluation Method for Mental Activities and Apprication to Intelligent Power Wheelchair	Yasunari Fujimoto(Tokyo Metropolitan University), Gen Oobayashi(Tokyo Metropolitan University), Nobuyuki Sekine(Tokyo Metropolitan University), Toru Yamaguchi(Tokyo Metropolitan University)
19	TC03	[OS] Autonomous Decentralized Approaches for Systems Management	Simulated Annealing Method Based on Recursive Problem Decomposition for Vehicle Routing Problems	Kazutoshi Sakakibara(Ritsumeikan University), Kazutoshi Sakakibara(Ritsumeikan University), Ikuko Nishikawa(Ritsumeikan University)
19	TC03	[OS] Autonomous Decentralized Approaches for Systems Management	Autonomous Decentralized Simulation Model of City and Urban Traffic	Takuya Matsumoto(Kobe University), Hisashi Tamaki(Kobe University), Tsutomu Inamoto(Kobe University)
19	TC03	[OS] Autonomous Decentralized Approaches for Systems Management	Adaptive supervisory control based on a preference of agents for decentralized discrete event systems	Kouji Kajiwara(Setsunan university), Tatsushi Yamasaki(Setsunan University)
19	TC03	[OS] Autonomous Decentralized Approaches for Systems Management	Management of Multimedia Data on a Distributed e-Learning System	Daisuke Yamamoto(Tottori University), Kazunari Meguro(Tottori University), Takao Kawamura(Tottori University), Shinichi Motomura(Tottori University), Toshihiko Sasama(Tottori University), Kazunori

19	TC03	[OS] Autonomous Decentralized Approaches for Systems Management	Development of User Interface Supporting Multi Web Browsers for Distributed e-Learning System	Takashi Hirata(Tottor University), Kazunari Meguro(Tottori University), Takao Kawamura(Tottori University), Toshihiko Sasama(Tottori University), Kazunori Sugahara(Tottori University)
19	TC03	[OS] Autonomous Decentralized Approaches for Systems Management	Realization of Persistency for Meeting Scheduling System Based on Mobile Agent Technology	Takayuki Onishi(Tottori University), Takao Kawamura(Tottori University), Toshihiko Sasama(Tottori University), Kazunori Sugahara(Tottori University)
19	TC04	[OS] Advanced Pattern Measurement III	Study of Feature Extraction for Diagnosing Prostate Cancer	Yoshiteru Toki(Keio University), Toshiyuki Tanaka(Keio University)
19	TC04	[OS] Advanced Pattern Measurement III	Case Classification of Pulmonary Emphysema using Shape and Distribution of Lesions	Shotaro Yoshie(Keio University), Toshiyuki Tanaka(Keio University), Toru Shirahata(Keio University), Hiroaki Sugiura(Keio University)
19	TC04	[OS] Advanced Pattern Measurement III	Authentication System based on Computer Generated Hologram	naoki murakami(keio university), Toshiyuki Tanaka(Keio University)
19	TC04	[OS] Advanced Pattern Measurement III	Knowledge Simplification of Hierarchical Neural Network for Multidimensional Pattern Recognition Problems	Satoru Suzuki(Tokyo University of Agriculture and Technology), Yasue Mitsukura(Tokyo University of Agriculture and Technology)
19	TC04	[OS] Advanced Pattern Measurement III	Eyeball Movement-Related EEG Potential Pattern Recognition for Real-time BMI	takuma ito(Advanced Pattern Measurement III), sumiya hideyasu(Advanced Pattern Measurement III)
19	TC04	[OS] Advanced Pattern Measurement	Pipe wall thickness inspection with current driven thermal	Satoshi Honda(Keio University)
19	TC06	[OS] Adaptive & Learning Control III	Evolutionary Identification Using Closed-Loop Data for a Mechanical System	Kazuo Kawada(Hiroshima University), Toru Yamamoto(Hiroshima University)
19	TC06	[OS] Adaptive & Learning Control III	Logic-based Switching Control of Trains with Actuator Failures	Taro Takagi(Tokai University), Masanori Takahashi(Tokai University)
19	TC06	[OS] Adaptive & Learning Control III	Adaptive compensation method of friction forces using differential estimator	Kazuya Sato(Saga University), Obata Shin-ichiro(Saga University), Nomura Jyun(Saga University), Kazuhiro Tsuruta(Kyushu Sangyo University)
19	TC06	[OS] Adaptive & Learning Control III	Adaptive output recurrent neural network for overhead crane system	Chih-Hui Chiu(Yuan Ze University), Chun Hsien Lin(Yuan Ze University)
19	TC06	[OS] Adaptive & Learning Control III	Adaptive State Feedback Control for Descriptor Systems	Kenichi Tamura(Tokyo Metropolitan University), Keiichiro Yasuda(Tokyo Metropolitan University)
19	TC07	[OS] Control Theoretic Approaches to Future Control Technology	A Numerical Solution Method to Receding Horizon Control for Nonlinear Diffusion Systems	Yusuke Yoshioka(Osaka university), Tomoaki Hashimoto(Shinshu University), Toshiyuki Ohtsuka(Osaka
19	TC07	[OS] Control Theoretic Approaches to Future Control Technology	Approach to relocate sampled zeros for feedforward control application	Takuya Sogo(Chubu University), Masafumi Joe(Chubu University)
19	TC07	[OS] Control Theoretic Approaches to Future Control Technology	Ouput Feedback Stabilization of Systems with Ternary Valued PWM Control Input	Toru Asai(Osaka University)
19	TC07	[OS] Control Theoretic Approaches to Future Control Technology	An Inverse Halftoning Algorithm Based on Super-Resolution Image Reconstruction	Yuki Minami(Maizuru National College of Technology), Shun-ichi Azuma(Kyoto University), Toshiharu

19	TC07	[OS] Control Theoretic Approaches to Future Control Technology	Super-Resolution Image Reconstruction using an Observer of a Motorized Camera Head	Satoru Onishi(Nara Institute of Science and Technology), Kiminao Kogiso(Nara Institute of Science and Technology)
19	TC08	Networked Sensing and Control Systems II	Convergence analysis of consensus problem with communication delays	Satoshi Maki(Tokyo Metropolitan University), Akira Kojima(Tokyo metropolitan University)
19	TC08	Networked Sensing and Control Systems II	A study of RSSI based formation control algorithm for Multiple Mobile Robots	Takanori Komatsu(Hosei University), Tomoyuki Ohkubo(Graduate School of Engineering,Hosei University), Kazuyuki Kobayashi(Hosei University), Kajiro Watanabe(Hosei University), Yosuke Kurihara(Seikei
19	TC08	Networked Sensing and Control Systems II	Robust Feedback Stabilizability of Periodic Networked Control Systems	CHENG FA CHENG(National Taiwan Ocean University), Shuang Yu Chung(National Taiwan Ocean University)
19	TC08	Networked Sensing and Control Systems II	Formation control with fault-tolerance based on rigid graph theory	Takehito Azuma(Utsunomiya University), tatsuya karube(utsunomiya university)
19	TC08	Networked Sensing and Control Systems II	Adaptive Consensus on a Class of Nonlinear Multi-Agent Dynamical Systems	Kouichi Sumizaki(Univ. of Tokyo), Lu Liu(The University of Tokyo), Shinji Hara(The University of Tokyo)
19	TC08	Networked Sensing and Control Systems II	Online Leader-Following Formation Navigation with Initial Movements of Followers and Its Experimental Verification	Manabu Suzuki(The University of Electro-Communications), Kazunori Sakurama(The University of Electro-Communications), Kazushi Nakano(The University
19	TC09	[OS] Evolutionary Technology and its Applications II	Extended TSP model as Conflicting Resource utilizations by individual optimizers	Ryota Ono(Hokkaido University)
19	TC09	[OS] Evolutionary Technology and its Applications II	A Feasibility Study of the Intelligent Cart System	Yasushi Kambayashi(Nippon Institute of Technology), Keisuke Satta(Nippon Institute of Technology), Hidemi Yamachi(Nippon Institute of Technology), Munehiro Takimoto(Tokyo University of Science)
19	TC09	[OS] Evolutionary Technology and its Applications II	Generating Stock Trading Signals Based on Matching Degree with Extracted Rules by Genetic Network Programming	Shingo Mabu(Waseda University), Yuzhu Lian(Waseda University), Yan Chen(Waseda University), Kotaro Hirasawa(Waseda University)
19	TC09	[OS] Evolutionary Technology and its Applications II	Evolutionary Trend Prediction using Plural Technical Indicators for Foreign Exchange Transaction	Daigo Kato(Yokohama National University), Noriko Yata(Yokohama National University), Tomoharu Nagao(Yokohama National University)
19	TC09	[OS] Evolutionary Technology and its Applications II	Stock Market Prediction Using Classifier System Based on Incident Pattern of Wave Template	Ryota Kato(Yokohama National University), Noriko Yata(Yokohama National University), Tomoharu Nagao(Yokohama National University)
19	TC09	[OS] Evolutionary Technology and its Applications II	Extended Information Ratio Proposal for Portfolio Optimization Based on Market Dynamics	Yukiko Orito(Hiroshima University), Hisashi Yamamoto(Tokyo Metropolitan University), Tomokazu Sasaki(Tokyo Metropolitan University), Toru Kurazumi(Tokyo Metropolitan Univesity), Yasuhiro Tsujimura(Nippon Institute of Technology), Yasushi
19	TC10	[OS] Challenges for Information Sharing on Industrial Network II	Industrial Wireless Sensor Networks and Standardizations	Li Zheng(Yamatake Corporation)

19	TC10	[OS] Challenges for Information Sharing on Industrial Network II	Consideration on Vulnerability Handling for Control Systems	Miyachi Toshio(JPCERT Coordination Center), Hiroki Narita(JPCERT Coordination Center), Oguma Nobutaka(JPCERT Coordination Center), Furuta Hirohisa(JPCERT Coordination Center)
19	TC10	[OS] Challenges for Information Sharing on Industrial Network II	Security measures of Manufacture & Control System	Yuuji Umeda(Toshiba Corporation), Satoshi Kuboya(yamatake)
19	TC10	[OS] Challenges for Information Sharing on Industrial Network II	Development of the landslide observation system using ZigBee	Yuya Nakahata(University of Tsukuba), youhei kawamura(Univ. of Tsukuba)
19	TC10	[OS] Challenges for Information Sharing on Industrial Network II	Implementing Localization Scheme on ZigBee Wireless Sensor Network	Junya Ohtsuka(University of Hyogo), Teijiro ISOKAWA(University of Hyogo), Hironobu Kawa(Step One Limited), Satoshi Nakashima(Step One Limited), Ayumu SAITOH(University of Hyogo), Naotake KAMIURA(University of Hyogo), Nobuyuki
19	TC11	Signal Processing	Person Localization using TDOA of Non-speech Sound Signal based on Multiplexed CSP Analysis	Yasuhiro Teshima(Tokyo Institute of Technology), Kazuo Oshima(NTT Facilities Research Institute Inc.), Junya Takayama(Tokyo Institute of Technology), Shinji OHYAMA(Tokyo Institute of Technology)
19	TC11	Signal Processing	Nano-level 3-D shape Measurement Method from Analysis of Interference Fringes Using RGB LED Lightings	Seiji Hata(Kagawa University), Masanobu Kaneda(Kagawa University), Daichi Kimura(Kagawa University), Jun'ichiro Hayashi(Kagawa University), Ichirou Ishimaru(Kagawa University), Shigeaki Morimoto(REXXAM), Masakatsu Iwamoto(REXXAM), Hiroaki Kobayashi(Kagawa Industrial Technology Center)
19	TC11	Signal Processing	Precise Diameter Measurement of Reinforcing Bar and Steel Pipe based on Bi-static Model using Microwave Radar	Junya Takayama(Tokyo Institute of Technology), Tsubasa Yoshinaga(Tokyo Institute of Technology), Yusuke Ohtake(Tokyo Institute of Technology), Shinji OHYAMA(Tokyo Institute of Technology)
19	TC11	Signal Processing	Novel Multi-bit and Bitwise Minimum Error Replacement Technique for Watermarking and Data Hiding	Rong-Jian Chen(National United University), Yu-Cheng Peng(National United University), Jui-Lin Lai(National United University), Shi-Jinn Horng(NATIONAL TAIWAN UNIVERSITY OF SCIENCE AND TECHNOLOGY)
19	TC11	Signal Processing	Spacecraft Telemetry Data Monitoring by Dimensionality Reduction Techniques	Takehisa YAIRI(The University of Tokyo), Akihiro Yoshiki(University of Tokyo), Minoru Inui(University of Tokyo), Yoshinobu Kawahara(Osaka University), Noboru Takata(Japan Aerospace Exploration Agency)
19	TC11	Signal Processing	Frequency and amplitude estimation in microwave Doppler signal and its application to car driver's foot motion estimation	Norikazu IKOMA(Kyushu Institute of Technology), Ryosuke NAGAYAMA(Kyushu Institute of Technology), Hiroshi KUMAMOTO(TOTO LTD.), Nobuharu NISHIYAMA(TOTO LTD.)

19	TC12	Mechatronic Systems anc Control II	Basic performance of a joint mechanism with multi-directional adjustable stiffness	Shinya Kajikawa(Tohoku Gakuin University)
19	TC12	Mechatronic Systems anc Control II	Development of 2-Position 3-Port Pneumatic Control Valve with Self-holding Function	Hirofumi Ueda(Okayama Univercity of Science), Tetsuya Akagi(Okayama University of Science), Shujiro Dohta(Okayama University of Science)
19	TC12	Mechatronic Systems anc Control II	Precise tracking control of Piezo actuator using sliding mode control with feedforward compensation	JOO YONG LEE(POSTECH,KOREA), DONG WOOK LEE(POSTECH), Sang-Chul Won(POSTECH)
19	TC12	Mechatronic Systems anc Control II	Dynamic Analysis of Wagon Caster with Shock Absorber	KIYOSHI IOI(Kinki University), Koji Moriya(Kinki University), Takashi Kawabuchi(Kinki University), Atsushi Suda(Yuei Caster Co.Ltd.), Masahiko Yamamoto(Yuei
19	TC12	Mechatronic Systems anc Control II	A Practical Approach to Detecting External Force Applied to Hydraulic Cylinder for Construction Manipulator	Mitsuhiro Kamezaki(Waseda University), Hiroyasu Iwata(Waseda University), Shigeki Sugano(Waseda
19	TC12	Mechatronic Systems anc Control II	Modal Separation Control of Circular Cylindrical Wedge Wave Ultrasonic Motors	Tai Ho Yu(National United University), Ching-Chung Yin(National Chiao Tung University)
19	TC13	[OS] Navigation, Guidance, and Control in Aerospace Systems II	Wavelet-based Method for Signal Acquisition in GNSS Receivers	Chung-Liang Chang(National Pingtung University of Science and Technology), Ho Nien Shou(Air Force Institute of Technology), Jyh-Ching Juang(National Cheng Kung
19	TC13	[OS] Navigation, Guidance, and Control in Aerospace Systems II	Path Tracking of UAV Using Self-Tuning PID Controller Based on Fuzzy Logic	Pined Laonapiengsak(Sirindhorn international institute of technology, Thammasat university), Theerasak Sangyam(Sirindhorn international institute of technology, Thammasat university), Wonlop Chongcharoen(Sirindhorn international institute of technology, Thammasat university), Itthisek Nilkhamhang(Sirindhorn international institute of technology, Thammasat university)
19	TC13	[OS] Navigation, Guidance, and Control in Aerospace Systems II	A Tight Path Following Algorithm of an UAS Based on PID control	Sanghyuk Park(INHA university), Ihnseok Rhee(Korea University of Technology and Education), Chang-Kyung Ryoo(INHA university)
19	TC13	[OS] Navigation, Guidance, and Control in Aerospace Systems II	Path Generation Algorithm for Intelligence, Surveillance, Reconnaissance(ISR) of UAVs	Chan-Wook Lim(INHA University), Chang-Kyung Ryoo(INHA university), Keeyoung Choi(Inha University), Jung-Hee Jo(Agency for Defense Development)
19	TC13	[OS] Navigation, Guidance, and Control in Aerospace Systems II	Micro-Satellite Attitude Angle Rate Estimation:Unscened Kalman Filter Approach	Ho Nien Shou(Air Force Institute of Technology), Chen Tsung Lin(National Space Organization), Chung-Liang Chang(National Pingtung University of Science and
19	TC14	System Theory and Engineering	Reachability Analysis of Probabilistic Boolean Networks using Model Checking	Koichi Kobayashi(Japan Advanced Institute of Science and Technology), Kunihiko Hiraishi(Japan Advanced Institute of Science and Technology)
19	TC14	System Theory and Engineering	Global Optimization using the Draining Method and the Simultaneous Perturbation Gradient Approximation	Takashi Okamoto(Chiba University), Hironori Hirata(Chiba University)

19	TC14	System Theory and Engineering	Integrated Optimization Based on Successive Adaptive Modeling	Tomoyuki Tanaka(Tokyo Metropolitan University), Kenichi Tamura(Tokyo Metropolitan University), Keiichiro Yasuda(Tokyo Metropolitan University)
19	TC14	System Theory and Engineering	Improvement of the Optimization-Based Collision Avoidance Method for Reversal- and Livelock-Free Operation in Multi-Car Elevator Systems	Shunji Tanaka(Kyoto University), Watanabe Masashi(Kyoto Uinversity)
19	TC14	System Theory and Engineering	Multi-Agent Arrival and Flow Rotary Intersection Model using Safe Petri-net for Congestion Avoidance	Makoto Katoh(Osaka Institute of Technology)
19	TC14	System Theory and Engineering	Control Frame of Cognition in Cognitive System	Wang Rui(Northeastern University)
19	TC15	[OS] Disaster Response Robotics II	Concept of a hopping sphere robot for rescue	Kenichi Tokuda(Wakayama University), Hidenori Yagi(Wakayama University), Tetsuya Kinugasa(Okayama University of Science), Masafumi Miwa(The University of
19	TC15	[OS] Disaster Response Robotics II	Torque Transfer Characteristics of the Flexible Shafts for Movement Mechanism of a Crawler-type Rescue Robot	Ryota Hayashi(Kagoshima University), Ichiro Nakamura(Kagoshima University), Yong Yu(Kagoshima University), Hisanori Amano(National Research Institute of Fire and Disaster), Tetsuya Kinugasa(Okayama University
19	TC15	[OS] Disaster Response Robotics II	Development of Heavy Duty Mobile Unit for Disaster Response	Hisanori Amano(National Research Institute of Fire and Disaster), Ryutaro Morisono(Mitsubishi Electric TOKKI Systems Cooperation), Ryuichi Hodoshima(National Research Institute of Fire and Disaster)
19	TC15	[OS] Disaster Response Robotics II	Development of a Search Type Rescue Robot Driven by Pneumatic Actuator	Kengo Harihara(Okayama University of Science), Tetsuya Akagi(Okayama University of Science), Shujiro Dohta(Okayama University of Science), Feng Zhang(Okayama University of Science)
19	TC15	[OS] Disaster Response Robotics II	Summary of the 9th Rescue Robot Contest	Tomoharu Doi(Osaka Prefectural College of Technology), Masayuki Okugawa(Aichi Inst. Tech.), Yoshiomi MUNESAWA(Okayama Univ.), Hitoshi Yamauchi(Okayama Pref. Univ.), Seisuke Yamanaka(Osaka Pref. Coll. Tech.), Rescue Robot Contest Executive committee of(Executive committee of Rescue Robot
19	TC15	[OS] Disaster Response Robotics II	RT Development for Local Area Disaster Mitigation via Local Area Human Network: A Case Study in NAGAOKA	Tetsuya Kimura(Nagaoka University of Technology)
19	TC17	Mobile Robots II	Robust Adaptive Position/Force Control of Mobile Manipulators -Theory and Experiments	Tatsuo Narikiyo(Toyota Technological Institute), Michihiro Kawanishi(Toyota Technological Institute)
19	TC17	Mobile Robots II	Study of Locomotion Strategy of Humanoid Robot Using Whole Body	Hirofumi Niimi(College of Industrial Technology), Minoru Koike(College of Industrial Technology), Seiichi Takeuchi(College of Industrial Technology), Noriyoshi Douhara(College of Industrial Technology)

19	TC17	Mobile Robots II	Localization Algorithm using Virtual Label for a Mobile Robot	kiho yu(Pusan National University), mincheol Lee(Pusan National University), SeokJo Go(Dong-Eui Institute of
19	TC17	Mobile Robots II	Path planning of Unmanned Vehicle using Potential Field and Lane Detection	JunYoung Baek(Pusan National University), mincheol Lee(Pusan National University), Sung Hyun Kim(Busan College of Information Technology)
19	TC17	Mobile Robots II	Performance Comparison between Neural Network and SVM for Terrain Classification of Legged Robot	Kisung Kim(Hanyang Univ. in Korea), Kwangjin Ko(Hanyang University), Wansoo Kim(Hanyang Univ.), Seungnam Yu(Hanyang Univ.), Changsoo Han(Hanyang
19	TC17	Mobile Robots II	Development of the mowing robot of trimmer type	YUKI IWANO(Akashi National College of Technology)
19	TC18	[OS] Intelligent Human-Machine Systems II	Braking Assistance System for Train Drivers by Indicating Predicted Stopping Position	Hiroyasu SATO(Nihon University), Yoshitaka Marumo(Nihon University), Hitoshi TSUNASHIMA(Nihon University), Takashi KOJIMA(Railway Technical Research
19	TC18	[OS] Intelligent Human-Machine Systems II	A collision risk criterion based on imaginary brakes	Yuta Inoue(Nara Institute of Science and Technology), Kazushi Ikeda(Nara Institute of Science and Technology), Hiroki Mima(Nara Institute of Science and Technology), Tomohiro Shibata(Nara Institute of Science and Technology), Naoki Fukaya(DENSO CORPORATION), Kentaro Hitomi(DENSO CORPORATION), Takashi
19	TC18	[OS] Intelligent Human-Machine Systems II	Proposal of Warning Methods for Rear Obstacle Warning System Using Sensor Recognition Reliability	Shigeyoshi Tsutsumi(Kagawa University), Tokihiko Akita(AISIN SEIKI CO., LTD.), Takahiro Wada(Kagawa University), Shun'ichi Doi(Kagawa University)
19	TC18	[OS] Intelligent Human-Machine Systems II	Effect of Activation Timing of Automatic Braking System on Driver Behaviors	Takahiro Wada(Kagawa University), Shoji Hiraoka(Kagawa University), Shigeyoshi Tsutsumi(Kagawa University), Shun'ichi Doi(Kagawa University)
19	TC18	[OS] Intelligent Human-Machine Systems II	Seat Vibrotactile Warning Interface for Forward Vehicle Collision Avoidance	Pongsathorn Raksincharoensak(Tokyo University of Agriculture and Technology), Masato Higuchi(Tokyo University of Agriculture and Technology)
19	TC18	[OS] Intelligent Human-Machine Systems II	Method for evaluating the collision mitigation ratio when using collision avoidance alarm at intersection	Keisuke Suzuki(Kagawa University)
19	TC19	Advances in Control II	Design of Optimal Output Disturbance Cancellation Controllers for Non-minimum Phase Plants via Loop	Tadashi Ishihara(Fukushima University), Hai-Jiao Guo(Tohoku Gakuin University)
19	TC19	Advances in Control II	Stability Analysis of Discrete-Time Systems with Two State Delays	Kun Feng Chen(National Taiwan University), I-Kong Fong(National Taiwan University)
19	TC19	Advances in Control II	The Key Stability Determinants for Low-order Interval Polynomials	JEROME(Chieh-Neng) CHANG(Kao Yuan University, Kaohsiung, Taiwan, R.O.C.)
19	TC19	Advances in Control II	The Sufficient Condition of System Matrix to Find A Lyapunov Function	JEROME(Chieh-Neng) CHANG(Kao Yuan University, Kaohsiung, Taiwan, R.O.C.)
19	TC19	Advances in Control II	Design of Terminal Sliding Mode Control System for Second-Order Systems	Young-Hun Jo(Korea University), Yong-Hwa Lee(Korea University), KANG-BAK PARK(KOREA UNIVERSITY)

19	TC19	Advances in Control II	Model-Reference Type Discretized PID Control for Continuous PLants	Yoshifumi Okuyama(Humanitech Laboratory)
20	FA01	[OS] Robot Therapy System	Production and Evaluation of a Walking Simulator in a VR Town	Tomomi Hashimoto(Saitama Institute of Technology), Yasuyuki Takakura(Saitama Medical University), Toshimitsu Hamada(Tsukuba Gakuin University), toshiko akazawa(kitasato university)
20	FA01	[OS] Robot Therapy System	Proposal and trial of robot assisted rehabilitation system using remote controlled robotic pet	Eiichi OHKUBO(Teikyo Junior College), KAZUHIRO MIURA(Teikyo University of Science), MURATA Hidekazu(Teikyo Univ. of Sci. & Tech.), Toshihiro TETSUI(Teikyo University of Science), KIMURA Ryuhei(Teikyo University of Science and Technology), Noriko KATO(Tokorozawa Royal Hospital), NAGANUMA
20	FA01	[OS] Robot Therapy System	Gait Learning Method for Stable Motion Using Quadrupedal Robot	Hidekazu Suzuki(Tokyo Polytechnic University), Nishi Hitoshi(Fukui National College of Technology), Tsuchiya Seiya(Tokyo Polytechnic University)
20	FA01	[OS] Robot Therapy System	Consideration of Physiological Effect of Robot Assisted Activity on Dementia Elderly by Electroencephalogram (EEG) - Estimation of Positive Effect of RAA by Neuroactivity Diagram -	KIMURA Ryuhei(Teikyo University of Science and Technology), MIURA Kazuhiro(Teikyo University of Science and Technology), MURATA Hidekazu(Teikyo University of Science and Technology), YOKOYAMA Akimitsu(Teikyo University of Science and Technology), NAGANUMA Mitsuru(Teikyo University of Science and
20	FA01	[OS] Robot Therapy System	The effect of the distance between human and robot in RAA setting	YOKOYAMA Akimitsu(Teikyo Univ. of Sci. & Tech.), Megumi Hakata(Teikyo University of science)
20	FA02	[OS] Designing the Service Engineering in Post Ubiquitous Society I	visualization in service sciences	Hiroyuki Miki(OKI Electric Ind. Co., Ltd.), naotune hosono(Oki Consulting Solutions), Sakae Yamamoto(Tokyo University of Science)
20	FA02	[OS] Designing the Service Engineering in Post Ubiquitous Society I	Implications of Integrating HCD processes into development processes	Naotake Hirasawa(Otaru University of Commerce), Shinya Ogata(U'eyes Design inc), Kiko Yamada-Kawai(Otaru University of Commerce), Hideaki Kasai(Otaru University
20	FA02	[OS] Designing the Service Engineering in Post Ubiquitous	Privacy protection against ubiquitous marketing	YUMI ASAHI(Tokyo University of Science)
20	FA02	[OS] Designing the Service Engineering in Post Ubiquitous Society I	Implications of Envisioning Citizen-centered Administrative Services	Kiko Yamada-Kawai(Otaru University of Commerce), Naotake Hirasawa(Otaru University of Commerce), Hidemi Fukada(Otaru University of Commerce), Shou Ohtsu(Otaru University of Commerce)
20	FA02	[OS] Designing the Service Engineering in Post Ubiquitous Society I	A Study on Color Conversion for the Anomalous Trichromat to Identify Color	makoto OKA(Tokyo City University), naoki OZAWA(Keio University), Hirohiko MORI(Tokyo City University), akito SAKURAI(Keio University)

20	FA03	[OS] Computational Intelligence and Its Applications I	Dynamic Associative Memory by Using Chaos of a Simple Associative Memory Model with Euler's Finite Difference	Kazuaki Masuda(Kanagawa University), Eitaro Aiyoshi(Keio University)
20	FA03	[OS] Computational Intelligence and Its Applications I	Gene Expression Pattern Based Controller Design for Gene Regulatory Networks	Yoshihiro Mori(Kyoto Institute of Technology), Yasuaki KUROE(Kyoto Institute of Technology)
20	FA03	[OS] Computational Intelligence and Its Applications I	Evolution strategies for biped locomotion learning using nonlinear oscillators	Takeshi Uchitane(Osaka University), Toshiharu Hatanaka(Osaka University), Katsuji Uosaki(Fukui
20	FA03	[OS] Computational Intelligence and Its Applications I	Simultaneous Perturbation Particle Swarm Optimization and FPGA Realization	Takahiro Yamada(Kansai University), Yutaka Maeda(Kansai University), Seiji Miyoshi(Kansai University), Hiroomi Hikawa(Kansai University)
20	FA03	[OS] Computational Intelligence and Its Applications I	Multiple-Attribute Decision Making with Estimation of Preferences of Multiple Evaluators	Junichi Murata(Kyushu University), Masato Saruwatari(Kyushu University), Satoshi Hashikawa(Kyushu
20	FA03	[OS] Computational Intelligence and Its Applications I	Simultaneous Bayesian inference of motion velocity fields and probabilistic models in successive video-frames described by spatio-temporal MRFs	Jun-ichi Inoue(Hokkaido University)
20	FA04	Process Control and Process Automation	Just-In-Time Statistical Process Control for Flexible Fault Management	Manabu Kano(Kyoto University), Takeaki Sakata(Kyoto University), Shinji Hasebe(Kyoto University)
20	FA04	Process Control and Process Automation	An Application of Tracking Simulator to Depropanizer Process	Shin Ishimaru(Yokogawa Electric Corporation), Makoto Nakaya(Yokogawa Electric Corporation), Tetsuya Ohtani(Yokogawa Electric Corporation)
20	FA04	Process Control and Process Automation	Long-term Prediction of Industrial Furnace by Extended Sequential Prediction Method of LOM	Masatoshi Ogawa(Waseda University), Yichun Yeh(Waseda University), Syou Kawanari(Waseda University), Harutoshi Ogai(Waseda University)
20	FA04	Process Control and Process Automation	An Application of Nonlinear Model Predictive Control using C/GMRES method to a pH Neutralization Process	Masahiro Takekawa(Yokogawa Electric Corporation), Jun Aoki(Yokogawa Electric Corporation), Makoto Nakaya(Yokogawa Electric Corporation), Tetsuya Ohtani(Yokogawa Electric Corporation), Toshiyuki
20	FA04	Process Control and Process Automation	A process simulator based on hybrid model of physical model and Just-In-Time model	Akio Nakabayashi(Yokogawa Electric Corporation), Makoto Nakaya(Yokogawa Electric Corporation), Tetsuya Ohtani(Yokogawa Electric Corporation), Dong Chen(Yokogawa Beijing Development Center), Dong Wang(Yokogawa Beijing Development Center), Xinchun Li(Yokogawa Beijing Development Center)
20	FA04	Process Control and Process Automation	Diagnosis of Impulse Line Blockage by Frequency Count Approach	Tetsuya TABARU(Yamatake Corporation), Naoyuki AOTA(Yamatake Corporation)
20	FA05	Vision Systems I	Viewpoint-oriented Human Activity Recognition in a Cluttered Outdoor Environment	S. M. Ashik Eftakhar(Kyushu Institute of Technology, Japan), Joo Kooi Tan(Kyushu Institute of Technology, Japan), Hyongseop Kim(Kyushu Institute of Technology, Japan), Seiji Ishikawa(Kyushu Institute of Technology,

20	FA05	Vision Systems I	Human Motion Recognition Using Directional Motion History Images	makoto murakami(Kyusyu Insutitute of Technology)
20	FA05	Vision Systems I	Three-dimensional Scene Reconstruction Using Stereo Camera and Laser Range Finder	Kota Saito(Yokohama National University), Noriko Yata(Yokohama National University), Tomoharu Nagao(Yokohama National University)
20	FA05	Vision Systems I	On Detecting a Human Body Direction Using an Image	Yuuki Nakashima(Kyushu Institute of Technology)
20	FA05	Vision Systems I	Fast Object recognition based on Corner Geometric Relationship	Chin Sheng Chen(National Taipei University of Technology), Yu Hung Ku(National Taipei University of Technology), Shun-Hung Tsai(National Taipei University of
20	FA05	Vision Systems I	A Method of Object Tracking Based on Particle Filter and Optical Flow to Avoid Degeneration Problem	Takahiro Kodama(Kumamoto University), Teruo YAMAGUCHI(Kumamoto University), Hiroshi Harada(Kumamoto University)
20	FA06	Healthcare and Welfare I	Robotic Stretcher for SMA Patient	Sakaki Taisuke(Kyushu Sangyo University), Takayuki Iribe(Kyushu Sangyo University), Kuniharu Ushijima(Kyushu Sangyo University), Kanta Aoki(Kyushu Sangyo University), Mihoko Sakuragi(Kitakyushu city Technical Aid Center), Keiichi Miyanaga(Disabled Citizens'
20	FA06	Healthcare and Welfare I	Proposal of Non-restrictive Sleep Assessment Method for Children Using Video Images	Shima OKADA(Ritsumeikan university), Shinya Furushima(Ritsumeikan University), Naruhiro Shiozawa(Ritsumeikan University), Masaaki MAKIKAWA(Ritsumeikan University)
20	FA06	Healthcare and Welfare I	Estimation of Feeling Based on EEG by Using NN and k-means Algorithm for Massage System	Tatsuya Teramae(Tottori university), Daisuke Kushida(Tottori university), Fumiaki Takemori(Tottori university), Akira Kitamura(Tottori university)
20	FA06	Healthcare and Welfare I	Effect of Acoustic Stimuli and Mental Task on Alpha, Beta and Gamma Rhythms in Brain Wave	Seiji Nishifuji(Yamaguchi University)
20	FA06	Healthcare and Welfare I	Measurement of Good Sleep Using Pressure Sensors under Unrestraint on Body	SHIMADA YUJI(Hosei University), Kazuyuki Kobayashi(Hosei University), Kajiro Watanabe(Hosei
20	FA06	Healthcare and Welfare I	Noninvasive biosignal measurement of a subject in bed using ceramic sensors	Toshihiro Shino(Hosei University), Kajiro Watanabe(Hosei University), Kazuyuki Kobayashi(Hosei University)
20	FA07	Nonlinear System Control	A sufficient condition for local semiconcavity of value function of nonlinear optimal regulator	Takayuki Tsuzuki(Shimane University), Yuh Yamashita(Hokkaido University)
20	FA07	Nonlinear System Control	Analysis of Effects of Rebounds and Aerodynamics for Trajectory of Table Tennis Ball	Junko Nonomura(Nagoya Univ), Akira Nakashima(Nagoya Univ), Yoshikazu Hayakawa(Nagoya University)
20	FA07	Nonlinear System Control	Minimum Projection Method for Asymptotic Stabilization toward A Set	Yoshiro Fukui(Systems & Control Lab, Graduate School of Information Scie, Nara Institute of Science and Technology), Hisakazu Nakamura(Nara Institute of Science and Technology), Hirokazu NISHITANI(Nara Institute of

20	FA07	Nonlinear System Control	H-Infinity Controllers using a Bilinear Y-K Observer for Heat Exchangers with a Bilinear Input and a Bilinear	Shin Nakayama(Meiji University), Hiroaki Kobayashi(Meiji University)
20	FA07	Nonlinear System Control	Design of Feedback Systems with Output Nonlinearity and with Inputs and Outputs Satisfying Bounding Conditions	Van Sy Mai(Chulalongkorn University), Suchin Arunsawatwong(Chulalongkorn University), Eyad H. Abed(University of Maryland)
20	FA07	Nonlinear System Control	Iterative Learning Control Based Gradient Descent Control For Output Tracking of Nonlinear Non-minimum Phase	Janson Naiborhu(Institut Tekonologi Bandung)
20	FA08	[OS] Fuzzy System Analysis and Control Applications I	Battery Friendly Driving Control of Electric Power Assisted Wheelchair Based on Fuzzy Algorithm	Naoki Tanohata(Chiba Institute of Technology), Hiroki Murakami(Chiba Institute of Technology), Hirokazu Seki(Chiba Institute of Technology)
20	FA08	[OS] Fuzzy System Analysis and Control Applications I	Stabilization of a Class of Fuzzy Bilinear Descriptor Systems with Time-Delay	Chin-Sheng Chen(National Taipei University of Technology, Taipei 10608, Taiwan, R.O.C.), Ming-Ying Hsiao(Fortune Institute of Technology), Chi-Hua Liu(Fortune Institute of Technology), Shun-Hung Tsai(National Taipei University of Technology), Ta-Tau
20	FA08	[OS] Fuzzy System Analysis and Control Applications I	Wheeled inverted pendulum control based on model-free fuzzy control strategy_abstract	Chih-Hui Chiu(Yuan Ze University), Chun Chieh Chang(Yuan Ze University)
20	FA08	[OS] Fuzzy System Analysis and Control Applications I	PCA and LDA Based Fuzzy Face Recognition System	Ming-Yuan Shieh(Southern Taiwan University of Technology)
20	FA08	[OS] Fuzzy System Analysis and Control Applications I	Design and Implementation of Interaction System between Humanoid Robot and Human Hand Gesture	Tzuu-Hseng S. Li(National Cheng Kung University), Min-Chi Kao(National Cheng Kung University)
20	FA09	Evolutionary Algorithm	Web Mining using Genetic Relation Algorithm	Eloy Gonzales(Graduate School of Information, Production and Systems. Waseda Univers), Shingo Mabu(Waseda University), Karla Taboada(Graduate School of Information, Production and Systems. Waseda University), Kotaro Hirasawa(Waseda University)
20	FA09	Evolutionary Algorithm	Studies on Q Value-based Dynamic Programming with Boltzmann Distribution	Yelei Xu(Graduate School of Information, Production and Systems, Waseda University), Deng Zhang(Waseda University), Shingo Mabu(Waseda University), Shanqing Yu(Waseda University), Kotaro Hirasawa(Waseda University), Yong Fang(Shanghai University)
20	FA09	Evolutionary Algorithm	An Application of Particle Swarm Optimization to Traveling Salesman Problem	Yuji Shigehiro(Osaka Institute of Technology)
20	FA09	Evolutionary Algorithm	An Evolutionary Algorithm for Posture Estimation of A Three-Dimensional Object	Yuya Kida(Yokohama National University), Noriko Yata(Yokohama National University), Tomoharu Nagao(Yokohama National University)
20	FA09	Evolutionary Algorithm	Down-hill Simplex Method Based Differential Evolution	Daichi Kamiyama(Tokyo Metropolitan University), Kenichi Tamura(Tokyo Metropolitan University), Keiichiro Yasuda(Tokyo Metropolitan University)

20	FA09	Evolutionary Algorithm	A Nature-Inspired Evolutionary Algorithm Based on Spiral Movements	Gang-Gyoo Jin(Korea Maritime University), Thanh-Do Tran(Korea Maritime University)
20	FA10	[OS] FLUCOME-J	Estimation of Fluid Transients in a Pipe using Kalman Filter based on Optimized Finite Element Model	Akira Ozawa(Yokohama National Univercity), Bingzhao Gao(Yokohama National University), Kazushi SANADA(Yokohama National University)
20	FA10	[OS] FLUCOME-J	Analysis of levitation using porous media	WEI ZHONG(Tokyo Institute of Technology), Guoliang Tao(Zhejiang University), Xin Li(Tokyo Institute of Technology), Kenji Kawashima(Tokyo Institute of Technology), Toshiharu Kagawa(Tokyo Institute of
20	FA10	[OS] FLUCOME-J	Transient Pressure and Flow Rate Measurement of Pneumatic Power Supply Line in Shinkansen	Kenji Fujino(EAST JAPAN RAILWAY COMPANY), Kouji Taniguchi(TOKYU CAR CORPORATION), Nobuaki Yamamoto(TOKYO METER CO, LTD., Chongho YOUN(Tokyo Institute of Technology), Toshiharu KAGAWA(Tokyo Institute of Technology)
20	FA10	[OS] FLUCOME-J	Analysis of pneumatic pipeline using CCUP (CIP-combined and unified procedure) method	Mitsuhiro Nakao(Tokyo Institute of Technology), Kenji Kawashima(Tokyo Institute of Technology), Toshiharu KAGAWA(Tokyo Institute of Technology)
20	FA10	[OS] FLUCOME-J	Study on flow rate control system of oscillatory gas flow	Tatsuya Funaki(National Metrology Institute of Japan,
20	FA10	[OS] FLUCOME-J	Diagnosis of Aerated Flow at Water Line with Coriolis Flowmeter Using Hilbert Transform	Akira Uehara(Research Institute for Science and Engineering, Waseda University), Takumi Hashizume(Waseda University), Tetsuya Wakui(Osaka Prefecture University), Akinori Yoshino(Yokogawa Electric Corp.), Akimichi Kadoguchi(Yokogawa Electric Corp.), Nobuo Miyaji(Yokogawa Electric Corp.)
20	FA11	Analytical Measurement	On-Line Distinction Methods of Human Falling Motions Based on Machine Learning	Shunichi Aoyagi(Shinshu University), Yuichi Chida(Shinshu University), Hidetoshi Kobayashi(Nishizawa Electric Meters Manufacturing CO.), Shunichi Yoshimatsu(Chikuma Central Hospital.), Masahiro
20	FA11	Analytical Measurement	Error analysis of FST for accuracy improvement	Kazuki Maeda(Osaka University), Koichi Osuka(Osaka
20	FA11	Analytical Measurement	Detection of Human Hided in an Automobile by Vital sign	Kyousuke Imamura(Hosei University), Kajiro Watanabe(Hosei University), Kazuyuki Kobayashi(Hosei University), Yosuke Kurihara(Seikei University)
20	FA11	Analytical Measurement	A single-shot laser rangefinder with quadrature reference signals sampling	Masahiro Ohishi(Topcon Corporation), fumio ohtomo(Topcon Corporation), yosikatsu tokuda(Topcon Corporation), Chikao Nagasawa(Tokyo Metropolitan
20	FA11	Analytical Measurement	The Analysis of Upper Arm Movement When a Human Lift Up a Dummy Doll	Yuki Sakaida(RIKEN), Daisuke Chugo(Kwansei Gakuin University), Ryojun Ikeura(Mie University)

20	FA11	Analytical Measurement	High-accuracy Shape Measurement by Whole-space Tabulation Board Applied to Electronic Packaging	Akihiro Masaya(Wakayama University), Motoharu Fujigaki(Wakayama University), Ryosuke Murakami(Wakayama University), Yoshiharu
20	FA12	[OS] System Design based on Further Benefit of a Kind of Inconvenience I	A vowel and semivowel synthesizer for promptitude and expressional communication	Hisataka Yuasa(Kyoto University), Hiroshi Kawakami(Kyoto University), Osamu Katai(Kyoto
20	FA12	[OS] System Design based on Further Benefit of a Kind of Inconvenience I	Evolutionary Algorithms for Sub-Sequence Extraction	Hisashi Handa(Okayama University), Hiroshi Kawakami(Kyoto University)
20	FA12	[OS] System Design based on Further Benefit of a Kind of Inconvenience I	Multi-agent simulation on relationship between individuals' travel behavior and residential choice behavior	Tadahiro Taniguchi(Ritsumeikan University), Yusuke Takahashi(Ritsumeikan University), Ikuko Nishikawa(Ritsumeikan University)
20	FA12	[OS] System Design based on Further Benefit of a Kind of Inconvenience I	A system design based on safety benefit of affording inconvenience affairs	Kohei Okabe(National Institute of Occupational Safety and Health, Japan)
20	FA12	[OS] System Design based on Further Benefit of a Kind of Inconvenience I	Degrading navigation system as an explanatory example of ``benefits of inconvenience''	Hiroyuki Kitagawa(Kyoto University), Hiroshi Kawakami(Kyoto University), Osamu Katai(Kyoto
20	FA13	Identification and Estimation	Adaptive Estimation of Firing Patterns of Hindmarsh-Rose Neurons and Synchronization Detection with Instantaneous Lyapunov Exponents	Ryuta Ito(Oita University), Yusuke Totoki(Oita University), Haruo Suemitsu(Oita University), Takami Matsuo(N/A)
20	FA13	Identification and Estimation	Gain Switching Observer for Compensating Outliers - Experimental Validation with Non-contact Sensor-	Yukinori Nakamura(Tokyo University of Agriculture and Technology), Kenji Sugimoto(Nara Institute of Science and Technology), Kensuke Nagai(Mitsubishi Heavy Industries, Ltd.), Shinji Wakui(Tokyo University of Agriculture and
20	FA13	Identification and Estimation	Zero velocity detection for inertial sensor-based personal navigation systems	Sang Kyeong Park(University of Ulsan)
20	FA13	Identification and Estimation	Comparison of estimation performance between single and multiple disturbance observers for LTI systems	Takahiko Ono(Hiroshima City University), Tadashi Ishihara(Fukushima University)
20	FA13	Identification and Estimation	Multi-Class System based on SVM for Real-Time Gas Mixture Classification	Guk Hee Kim(Kyungpook National Universty), Young-Wung Kim(Kyungpook National University), Sang-Jin Lee(Kyungpook National University), Gi Joon Jeon(School of Electrical Engineering Kyungpook National Universty)
20	FA13	Identification and Estimation	Design of a Digital Frequency Discriminator using Least Squares based Phase Calibration	Sang-Won Nam(Hanyang University), Jinoh Park(Hanyang University), Jung Hee Kim(Hanyang University), jaebeom seo(Hanyang University)
20	FA14	[OS] Application of Actuator and Sensor in Intelligent Technology	Development of Mobile Robot Using Piezoelectric Drive Technology Applied to Intelligent Space	Mi-Ching Tsai(NCKU)
20	FA14	[OS] Application of Actuator and Sensor in Intelligent Technology	The Analysis and Application of High Efficiency Piezoeletric Floor on Intelligent Buildings	Mi-Ching Tsai(NCKU)
20	FA14	[OS] Application of Actuator and Sensor in Intelligent Technology	IR Indoor Localization and Wireless Transmission for Motion Control in Smart Building Applications based on Wiimote Technology	Po- Wei Chen(National Cheng Kung University), Kuo-Shen Chen(National Cheng Kung University)

20	FA14	[OS] Application of Actuator and Sensor in Intelligent Technology	Study of Recurrent Fuzzy Neural Network Controller For Linear Ultrasonic Motor	Chen Pon Loon(National Chen-Kung University), Chen Tien Chi(Kun-Shan University)
20	FA14	[OS] Application of Actuator and Sensor in Intelligent Technology	A Robotic and Kinetic Design for Interactive Architecture	Taysheng Jeng(National Cheng Kung University), Cheng-An Pan(National Cheng Kung University)
20	FA15	Robot Walking	Gait Generation of Compass-type Biped Robot via Angle Control of Hip Joint	Hiromu Takai(Nara Institute of Science and Technology), Hisakazu Nakamura(Nara Institute of Science and Technology), Nami Nakamura(Nara Institute of Science and Technology), Hirokazu NISHITANI(Nara Institute of
20	FA15	Robot Walking	Gait and path planning for MOS-2009 Humanoid soccer robot	Shunan Ren(Harbin Institute of Technology), Jinjiao Xie(Harbin Institute of Technology)
20	FA15	Robot Walking	A Prototype Foot Shape for Human-like Walk of Humanoid Robot	Akinori Sekiguchi(Tokyo University of Technology), Yuichi Tsumaki(Yamagata University)
20	FA15	Robot Walking	Global stability analysis for plane limit cycle walking models with feet and actuation	Yonggwon Jeon(KAIST), Youn-sik Park(KAIST), Youngjin Park(KAIST)
20	FA15	Robot Walking	Walk control of a four-legged machine	Akira Oono(Hosei University), Kajiro Watanabe(Hosei University), Kazuyuki Kobayashi(Hosei University)
20	FA15	Robot Walking	Gait Control of a Biped Robot Using an Exact Limit Cycle Trajectory and the Backstepping Method	Tung-Yung Huang(Southern Taiwan University), Ssu-Hsien Wu(Southern Taiwan University), Huu Khoa Tran(Southern Taiwan University)
20	FA17	[OS] Motion/Function Control in Biological and Mechanical Systems I	Experimental Analysis of 3D Passive Dynamic Walking	Tetsuya Kinugasa(Okayama University of Science), Tetsuya Akiyama(Okayama University of Science), Muhammad Atif Jauhari Bin Idris(Okayama University of Science), Koji Yoshida(Okayama University of Sicence), Masatsugu Iribe(Osaka Electro-Communication University)
20	FA17	[OS] Motion/Function Control in Biological and Mechanical Systems I	Natural Entrainment of Mechanical Systems with Tensegrity Structure	YOSHIAKI FUTAKATA(The University of Tokyo), Tetsuya Iwasaki(University of California, Los Angeles)
20	FA17	[OS] Motion/Function Control in Biological and Mechanical Systems I	Emergence of hysteresis in gait transition by changing walking speed of an oscillator-driven quadruped robot	Tsuyoshi Yamashita(Kyoto University), Shinya Aoi(Kyoto University), Akira Ichikawa(Kyoto University), Kazuo Tsuchiya(Doshisha University)
20	FA17	[OS] Motion/Function Control in Biological and Mechanical Systems I	Implicit Control Law and Explicit Control Law of Swiss Robot	Yuichiro Sueoka(Osaka University), Koichi Osuka(Osaka University), Yasuhiro Sugimoto(Osaka University), Akio Ishiguro(Tohoku University)
20	FA18	[OS] Robotic Control and Robots	A robot arm for pushing elevator buttons	Wen-June Wang(National Chi-Nan University), Cheng-Hao Huang(National Central University), I Hsian Lai(National Central University), Han-Chun Chen(National Central
20	FA18	[OS] Robotic Control and Robots	CMAC-Based Dynamic-Balancing Design for Humanoid Robot	Jia-Jung Chang(Yuan Ze University), Chih-Min Lin(Yuan-Ze University), Chih-Hsuan Chen(Yuan Ze University), Ming-Hung Lin(Yuan Ze University)

20	FA18	[OS] Robotic Control and Robots	Visual Tracking on Adaptive Fuzzy Sliding Mode Control for The Antiswing of An Overhead Crane System	Handra Wijaya Lie(Chung Yuan Christian University), Cheng-Yuan Chang(Chung Yuan Christian University)
20	FA18	[OS] Robotic Control and Robots	A squeezing control of snake-like robots to climb up trees	Yuta Suzuki(Tokyo Denki University), Masami Iwase(Tokyo Denki University), Teruyoshi SADAHIRO(Tokyo Denki University), Shoshiro
20	FA19	Measurement and Control	Motion Control to Phase Variable Filter	Yoichi Ishigami(Kagawa University), Toshiaki Matsumoto(Kagawa University), Satoru Takahashi(Kagawa University)
20	FA19	Measurement and Control	Bending-Characteristic Measurement of Flexible Electronics by Using Fast Optimal Sliding Mode Control Method	Bor-Jiunn Wen(Industrial Technology Research Institute), Tzong-Shi Liu(National Chiao Tung University)
20	FA19	Measurement and Control	Integration both PI and PD Type Fuzzy Controllers for a Scanning Probe Microscope System Design	Jium-Ming Lin(Chung-Hua University.), Po-Kuang Chang(Chung-Hua University)
20	FA19	Measurement and Control	Duplicating the Skills of Hand Yarn Spinning Using a Robot	Purev-Ulzii Chimeddorj(Faculty of Textile Science and Technology, Shinshu University), Takashi Kawamura(Shinshu University, Faculty of Textile Science
20	FA19	Measurement and Control	Real-Time Control of an SSVEP-Actuated Remote-Controlled Car	Hsiang-Chih Chang(National Central University), Hua-Ting Deng(National Central University), Po-Lei Lee(National Central University), Chi-Hsun Wu(National Central University), Kuo-Kai Shyu(National Central University)
20	FA19	Measurement and Control	A System of Microwave Cylindrical Cavity Resonator for Granular Material Dielectric Measurement using Two Waveguide Transmitters	Navapadol Kittiamornkul(King Mongkut University of Technology Thonburi), Kosin Chamnongthai(King Mongkut's University of Technology Thonburi), Jirasereeamornkul Kamon(King Mongkut's University of Technology Thonburi), Kohji Higuchi(Department of
20	FB01	[OS] New Design and Methods in Domestic and Assistive Robotics	Human-Oriented Navigation for Service Providing in Home Environment	Kuo-Chen Huang(National Taiwan University), Jiun-Yi Li(National Taiwan University), Li-Chen Fu(National
20	FB01	[OS] New Design and Methods in Domestic and Assistive Robotics	An Intelligent Bone Cutting Tool in Robot-Assisted Knee Replacement	Ping-Lang Yen(National Taiwan University), Shuo-Suei Hung(Buddhist Taipei Tzu Chi General Hospital), Chia-Hou Tsai(National Taiwan University)
20	FB01	[OS] New Design and Methods in Domestic and Assistive Robotics	Skill Learning for Assistive Robotics	Hsien-I Lin(National Taipei University of Sicence and Technology)
20	FB01	[OS] New Design and Methods in Domestic and Assistive Robotics	Human Gait Estimation Using a Reduced Number of Accelerometers	Jwu-Sheng Hu(National Chiao Tung University), Sun Kuan-Chun(NCTU)
20	FB01	[OS] New Design and Methods in Domestic and Assistive Robotics	Concurrent Multiple Cameras Calibration and Robot Localization from Visual and 3D Inertial Measurements	Hsiang-Wen Hsieh(Industrial Technology Research Institute (ITRI)), Chin-Chia Wu(National Chiao Tung University), Hung-Hsiu Yu(Industrial Technology Research Institute), Jwu-Sheng Hu(National Chiao Tung University)
20	FB01	[OS] New Design and Methods in Domestic and Assistive Robotics	Mobile Robot Loop Closing Using Monocular Vision SLAM	Kai-Tai Song(National Chiao-Tung University), Li-Deh Yuan(National Chiao Tung University)

20	FB02	[OS] Designing the Service Engineering in Post Ubiquitous Society II	Universal Communication Service for Inclusive Use	Hosono Naotsune(Oki Consulting Solutions Co., Ltd.), Hiromitsu Inoue(Chiba Prefectural University of Health Sciences), Miki Hiroyuki(Oki Electric Ind. Co., Ltd.), Michio Suzuki(AAJD), Yuji Nagashima(Kogakuin
20	FB02	[OS] Designing the Service Engineering in Post Ubiquitous Society II	Distributed Autonomous System for Victims of The Earthquake	yuichi TAKAHASHI(Tokyo University of Science), Daiji Kobayashi(Chitose Institute of Science and Technology), Sakae Yamamoto(Tokyo University of Science)
20	FB02	[OS] Designing the Service Engineering in Post Ubiquitous	Deployment of Remote-control Slit Lamp Microscopes and its Effect on Local Medical Service	Kentaro Go(University of Yamanashi), Kenji Kashiwagi(University of Yamanashi), Naohiko
20	FB02	[OS] Designing the Service Engineering in Post Ubiquitous Society II	A Study on Selection Ability in the 3D Space by the Finger	Ryuta Yamada(Tokyo City University), Hidetaka Kuriiwa(Tokyo City University), makoto OKA(Tokyo City University), Hirohiko MORI(Tokyo City University)
20	FB03	[OS] Computational Intelligence and Its Applications II	Acquisition of Deterministic Exploration and Purposive Memory through Reinforcement Learning with a Recurrent	Katsunari Shibata(Oita University), Kenta Goto(Oita University)
20	FB03	[OS] Computational Intelligence and Its Applications II	Acquisition of active perception and recognition through Actor-Q learning using a movable camera	Ahmad Afif Mohd Faudzi(Oita University), Katsunari Shibata(Oita University)
20	FB03	[OS] Computational Intelligence and Its Applications II	Intelligent Chaos Fish-Catching Based on Neural-Network-Differential-Equation	Ryohei Endo(University of Fukui), Jun Hirao(University of Fukui), Mamoru Minami(Okayama University)
20	FB03	[OS] Computational Intelligence and Its Applications II	Attentive and Corrective Feedback for Adapting Robot's Perception on Fuzzy Linguistic Information	Kiyotaka Izumi(Saga University), Buddhika Jayasekara(Saga University), Keigo Watanabe(Okayama University), Kazuo Kiguchi(Saga University)
20	FB03	[OS] Computational Intelligence and Its Applications II	Analysis of Various Interestingness Measures in Classification Rule Mining for Traffic Prediction	Xianneng Li(Waseda Univ.), Shingo Mabu(Waseda University), Huiyu Zhou(Waseda University), Kaoru Shimada(Waseda University), Kotaro Hirasawa(Waseda
20	FB05	Vision Systems II	Teleoperation System of Robot Arms Combined with Remote Control and Visual Servo Control	Satoru Goto(Saga University), Takuya Naka(Saga University), Yoshitaka Matsuda(Saga University), Naruto Egashira(Kurume National College of Technology)
20	FB05	Vision Systems II	A Quantitative Evaluation of Robust Detecting and Tracking Methods under Illumination Changes Using Color Stereo Camera	Yuta Kimura(Tokyo University of Science), Hiroshi TAKEMURA(Tokyo University of Science), Hiroshi Mizoguchi(Tokyo University of Science)
20	FB05	Vision Systems II	Robust Tracking Method by MeanShift using Spatiograms	Kazuki Tada(Tokyo University of Science)
20	FB05	Vision Systems II	Map Building by 3D Map Matching	Tetsuya Ishimaru(University of Fukui)
20	FB05	Vision Systems II	Robot Self-Localization Using Simulated Experience	Tomomi Nagasaka(University of Fukui)
20	FB05	Vision Systems II	The Robot Visual Servoing Control Systems with Double Cameras for the Grasping Task	Suolin Duan(Jiangsu Polytechnic University), Chen Lanping(Shanghai Jiaotong University,Jiangsu Polytechnic University), Lu Guirong(Jiangsu Polytechnic University), Ma Zhenhua(Jiangsu Polytechnic University), Yang Zhongyao(Taiyuan Steel & Iron Corpration)

20	FB06	Healthcare and Welfare II	Energy-Efficient Power Assist Control for Periodic Motions	Kazuyoshi Hatada(Nara Institute of Science and Technology), Kentaro Hirata(Nara Institute of Science and
20	FB06	Healthcare and Welfare II	Sway Suppression Control to Passenger with Muscle Weakness on Electrical Wheelchair	Koumei Yamashita(Toyohashi University of Technology), Yoshiyuki Noda(Toyohashi University of Technology), Takanori Miyoshi(Toyohashi University of Technology), Kazuhiko Terashima(Toyohashi University of Technology)
20	FB06	Healthcare and Welfare II	Modeling and Control on Passenger Posture Behavior Considering Seat Angle of Electrical Wheelchair	Masaya Yamada(TOYOHASHI University of Technology), Yoshiyuki Noda(Toyohashi University of Technology), Takanori Miyoshi(Toyohashi University of Technology), Kazuhiko Terashima(Toyohashi University of Technology)
20	FB06	Healthcare and Welfare II	Movement analysis of power-assistive machinery with high strength-amplification	Tomoyuki Ishida(Osaka university), Tsuyoshi Kiyama(Osaka university), Koichi Osuka(Osaka University), Go Shirogauchi(Activelink Co.,Ltd.), Reishi Oya(Activelink Co.,Ltd.), Hiromichi Fujimoto(Activelink
20	FB06	Healthcare and Welfare II	A dynamic model of power-assistive machinery with high strength-amplification	Atsushi Okubo(Osaka University), Tsuyoshi Kiyama(Osaka university), Koichi Osuka(Osaka University), Go Shirogauchi(Activelink Co.,Ltd.), Reishi Oya(Activelink Co.,Ltd.), Hiromichi Fujimoto(Activelink Co.,Ltd.)
20	FB06	Healthcare and Welfare II	An electrical prehension orthosis operated through activity of mastication muscle	hideki matsui(Nagasaki university), Takakazu Ishimatsu(Nagasaki university), Takakyoshi Koga(Nagasaki universtiy), haruo nakashima(nagasaki university), tooru takashima(nagasaki university), shunnji moromugi(nagasaki
20	FB07	[OS] Advances in Nonlinear Systems Analysis and Controller Design	On Negative Definiteness of Derivatives of Lyapunov Functions	Hisakazu Nakamura(Nara Institute of Science and Technology)
20	FB07	[OS] Advances in Nonlinear Systems Analysis and Controller Design	Global Observability of Polynomial Systems	Yu Kawano(Osaka University), Toshiyuki Ohtsuka(Osaka University)
20	FB07	[OS] Advances in Nonlinear Systems Analysis and Controller Design	Optimal Control Designs for Systems with Input Saturations and Rate Limiters	Yuto Yuasa(Nagoya University), Noboru Sakamoto(Nagoya University), Yoshio Umemura(AISIN AW CO.,LTD.)
20	FB07	[OS] Advances in Nonlinear Systems Analysis and Controller Design	Consensus Control Problem of Nonlinear Sampled-data Fullyactuated Ships	Hitoshi Katayama(Shizuoka University), Tatsuya Moriguchi(Shizuoka University)
20	FB07	[OS] Advances in Nonlinear Systems Analysis and Controller Design	Linearization based on Relative Degree Structure	Kazuma Sekiguchi(Tokyo Institute of Technology), Mitsuji Sampei(Tokyo Institute of Technology)
20	FB07	[OS] Advances in Nonlinear Systems Analysis and Controller Design	Control of multiple left-invariant systems on Lie groups using less control inputs	Masato Ishikawa(Osaka University), Ryota Yoshimura(Kyoto University), Toshiharu Sugie(Kyoto
20	FB08	[OS] Fuzzy System Analysis and Control Applications II	Improvement performance of marine vehicle's autopilot using Piecewise Fuzzy control	dae yeong Lim(Chonbuk National University), SungGoo Yoo(Chonbuk National University), Kilto Chong(Chonbuk national University)
20	FB08	[OS] Fuzzy System Analysis and Control Applications II	Solution of almost disturbance decoupling problem for nonlinear systems based on fuzzy feedback linearization	CHUNG-CHENG CHEN(National Chiayi University)

20	FB08	[OS] Fuzzy System Analysis and Control Applications II	Combination of Fuzzy Logic Control and Back Propagation Neural Networks for the Autonomous Driving Control of Car-Like Mobile Robot Systems	Tzuu-Hseng S. Li(National Cheng Kung University), Chih-Yang Chen(National Cheng Kung University), Kai-Chuin Lim(National Cheng Kung University)
20	FB08	[OS] Fuzzy System Analysis and Control Applications II	The Analysis of a Semi-Active Suspension System	Yaojung Shiao(National Taipei University of Technology), Chun-chi Lai(National Taipei University of Technology), Quang-Anh Nguyen(National Taipei University of
20	FB08	[OS] Fuzzy System Analysis and Control Applications II	Application of the GA-PSO with the Fuzzy controller to the robot soccer	Juing Shian Chiou(Southern Taiwan University)
20	FB08	[OS] Fuzzy System Analysis and Control Applications II	Prediction-based Control Using Modified Electromagnetism-like Algorithm for Neural Fuzzy Systems	Ching-Hung Lee(Yuan Ze University)
20	FB09	[OS] Applications of Evolutionary Optimization	Fuzzy control of nonlinear plants through rule-based cooperative particle swarm optimization	Chia-Feng Juang(National Chung Hsing University), Lu Chun-Feng(Chung Chou Institute of Technology), Che-Meng Hsiao(National Chung-Hsing University), Chia Hung Hsu(National Chung-Hsing University)
20	FB09	[OS] Applications of Evolutionary Optimization	Dynamic Size Multiobjective Genetic Algorithm to Solve the Crew Pairing Problem	Ta-Yuan Chou(National Sun Yat-sen University), Chungnan Lee(a), Tung-Kuan Liu(National Kaohsiung First University of Science and Technology), Chiu-Hung Chen(National Kaohsiung First University of Science and Technology), Fu-Sheng Chang(National Sun Yat-sen University)
20	FB09	[OS] Applications of Evolutionary Optimization	Intelligent Design of Adjustable Six-Bar Mechanisms Using Genetic Algorithms	Tung-Kuan Liu(National Kaohsiung First University of Science and Technology), Chiu-Hung Chen(National Kaohsiung First University of Science and Technology), Dai De-Young(Natl. Kaohsiung First Univ. of Scie. and Tech.), Jyh-Horng Chou(National Kaohsiung First University of Science and Technology)
20	FB09	[OS] Applications of Evolutionary Optimization	Application of Differential Evolution to Tolerance Design	Jinn-Tsong TSAI(National Pingtung University of Education), Kuo-Ming Lee(National Kaohsiung First University of Science and Technology), Tung-Kuan Liu(National Kaohsiung First University of Science and Technology), Jyh-Horng Chou(National Kaohsiung First
20	FB10	Monitoring and Diagnosis	Bridge Diagnosis System by Using Nonlinear Independent Component Analysis	juanqing Zheng(Waseda University & Shanghai University), Qingwen Wang(Shanghai University), Harutoshi Ogai(Waseda University), Jingqiu Huang(Waseda University), Shao Chen(Waseda University)
20	FB10	Monitoring and Diagnosis	On Vibration Signal Analysis in Bridge Health Monitoring System by Using Independent Component Analysis	Jingqiu Huang(Waseda University), Harutoshi Ogai(Waseda University), Shao Chen(Waseda University), juanqing Zheng(Waseda University & Shanghai University)
20	FB10	Monitoring and Diagnosis	LANDSLIDE DISASTER MONITORING BY DISTRIBUTED SENSING NODES	Tuan Sariff Syarifah Sarina(Ritsumeikan University), Shigeru TAKAYAMA(Ritsumeikan University BKC)

20	FB10	Monitoring and Diagnosis	The Health Monitoring System based on Distributed Data Aggregation for WSN used in Bridge Diagnosis	Haitao XIAO(Waseda University), Tansheng LI(Waseda University), Harutoshi Ogai(Waseda University)
20	FB10	Monitoring and Diagnosis	Model-Based Performance Diagnosis for PV Systems	Huan-Liang Tsai(Da-Yeh University), Chih-Hao Chang(Da-Yeh UInversity), Jia-Jun Zhu(Da-Yeh University)
20	FB10	Monitoring and Diagnosis	Verification of damage identification technique based on Transfer Function and using on a real bridge	Shao Chen(Waseda University), Harutoshi Ogai(Waseda University), Hiroshi Inujima(Waseda University), Jingqiu Huang(Waseda University), juanqing Zheng(Waseda University & Shanghai University)
20	FB11	Pattern Analysis	GPU based high-speed and high-precision visual tracking	Eisuke Ito(tohoku university), Satoshi Saga(Tohoku University), Takayuki Okatani(Tohoku University), Koichiro Deguchi(Tohoku University)
20	FB11	Pattern Analysis	An Automatic Through-hole Inspection System by Analyzing Laser Diffraction Pattern	Kazuyoshi Yoshino(Kanagawa Institute of Technology)
20	FB11	Pattern Analysis	Single-frame coaxial projection 3D profilometry system using correlation detection of depth-dependent MTF	Toru Kurihara(The University of Tokyo), Kazuaki Ochiai(University of Tokyo), Shigeru Ando(The University of Tokyo)
20	FB11	Pattern Analysis	Determination of optimal compensation for velocity measurement based on compensation method	Daiki Shibata(Kumamoto University), Teruo YAMAGUCHI(Kumamoto University), Hiroshi Harada(Kumamoto University)
20	FB11	Pattern Analysis	Acceleration of Ceramic Tiles Machine Vision Quality Control Algorithm using CUDA	Zeljko HOCENSKI(J.J. Strossmayer University of Osijek), Tomislav Matic(University J.J.Strossmayer in Osijek)
20	FB11	Pattern Analysis	FPGA Based Hybrid System for Visual Inspection of Ceramic Tiles Using Moving Average Method	Zeljko HOCENSKI(J.J. Strossmayer University of Osijek), Robert Mijakovi‡・University J.J.Strossmayer in Osijek), Alfonzo Baumgartner(University J.J.Strossmayer in Osijek)
20	FB12	[OS] System Design based on Further Benefit of a Kind of Inconvenience II	Media designing analogous with Biotope	Hidetsugu Suto(Muroran Institute of Technology)
20	FB12	[OS] System Design based on Further Benefit of a Kind of Inconvenience II	A communication medium using pictograms for media biotope	Makiko Okita(OS124), Hidetsugu Suto(Muroran Institute of Technology)
20	FB12	[OS] System Design based on Further Benefit of a Kind of Inconvenience II	Social Simulation Based on Perceptual Balance on the Influence of Communication Styles	Akira Notsu(Osaka Prefecture University), Katsuhiro Honda(Osaka Prefecture University), Hidetomo Ichihashi(Osaka Prefecture University)
20	FB12	[OS] System Design based on Further Benefit of a Kind of Inconvenience II	Communication media based on the Media Biotope	Makiba SAKAMOTO(Graduate School of Engineering Muroran Institute of Technology), Hidetsugu Suto(Muroran Institute of Technology)
20	FB13	Estimation	Estimation of Continuous-time Nonlinear Systems by using the Unscented Kalman Filter	Min Zheng(The University of Tokushima), Kenji Ikeda(The University of Tokushima), Shimomura Takao(The University of Tokushima)
20	FB13	Estimation	Altitude Estimation Method using Assumed Altitude Reliability Based on Multipath Propagation Model	YUKI TAKABAYASHI(Mitsubishi Electric Corporation)

20	FB13	Estimation	Quasi-Optimal Recursive Time Delay Estimator for Real Sinusoids	Seul Ki Han(yonsei university), Won Sang Ra(Handong Global University), Jin Bae Park(Yonsei University), Tae Sung Yoon(Changwon National University)
20	FB13	Estimation	Unknown Input Observer Design Using Descriptor System Approach	Huan-Chan Ting(National Chiao-Tung University), Jeang-Lin Chang(Oriental Institute of Technology), Yon-Ping Chen(National Chiao-Tung University)
20	FB13	Estimation	Adaptive Information Matrix Filtering Fusion with Nonlinear Classifier	Li-Wei Fong(Yu Da University)
20	FB13	Estimation	Risk-sensitive multiple model particle filter for jump Markov nonlinear systems	Wenling Li(Beihang University), Yingmin Jia(The Seventh Research Division, Beihang University (BUAA)), Junping Du(Beijing University of Posts and Telecommunications), Fashan Yu(Henan Polytechnic University)
20	FB14	[OS] Petri Nets and Discrete Event Systems	Modeling and Control of Autonomous Soccer Robots Using High-level Petri Nets	Chung-Hsien Kuo(National Taiwan University of Science and Technology), Ting-Shou Chen(National Taiwan University of Science and Technology)
20	FB14	[OS] Petri Nets and Discrete Event Systems	On-line Calculation of the Latest Starting Time for Repetitive Process Progress Schedule Based on Feedback Control Approach	Shiro Masuda(Tokyo Metropolitan University), Atsuya Tanaka(Tokyo Metropolitan University), Hiroyuki Goto(Nagaoka University of Technology)
20	FB14	[OS] Petri Nets and Discrete Event Systems	A Study on Modeling and Analysis of Production Order and Process Deadlock Free Control for an Automated Production System using Petri Net Technique	Yi-Shuo Huang(Diwan University), ShihSen Peng(Diwan University), W. L. Albert Yao(National Kaohsiung First University of Science and Technology)
20	FB14	[OS] Petri Nets and Discrete Event Systems	Data based Construction of Bayesian Network for Fault Diagnosis of Event-Driven Systems	Takuma Yamaguchi(Nagoya University), Shinkichi Inagaki(Nagoya University), Tatsuya Suzuki(Nagoya
20	FB14	[OS] Petri Nets and Discrete Event Systems	A Graph-based Deadlock Prevention Technique for FMSs Using Petri Nets	Yi-Sheng Huang(National Defense University)
20	FB14	[OS] Petri Nets and Discrete Event Systems	On Analysis of a Class of Timed Continuous Petri nets and Its Applications	Kunihiko Hiraishi(Japan Advanced Institute of Science and Technology)
20	FB15	[OS] Humanoid Robot System Design	The Stepping over an Obstacle for the Humanoid Robot with the Consideration of Dynamic Balance	Chih-Lyang Hwang(Tamkang University)
20	FB15	[OS] Humanoid Robot System Design	An Efficient Object Recognition and Self-Localization System for Humanoid Soccer Robot	Jen-Shiun Chiang(Tamkang University)
20	FB15	[OS] Humanoid Robot System Design	Research of Multi-thread Applications for Real-Time Control Systems on Humanoid Robot Embedded Platforms	Wei-Tsong Lee(Tamkang University), Jia-Liang Tsai(Department of Electrical Engineering, Tamkang University Taipei, Taiwa), Ming-Yang Chen(Department of Electrical Engineering, Tamkang University Taipei,Taiwan), Kuo-Hung Liao(Department of Electrical Engineering, Tamkang University Taipei,Taiwan), Yan-Bo Wang(Department of Electrical Engineering, Tamkang

20	FB15	[OS] Humanoid Robot System Design	Behaviors Design for Vision-based Humanoid Robot	Ching-Chang Wong(Tamkang University), Yueh-Yang Hu(Department of Electrical Engineering, Tamkang
20	FB15	[OS] Humanoid Robot System Design	Penalty Kick of a Humanoid Robot by a Neural-Network-Based Active Embedded Vision System	Chih-Lyang Hwang(Tamkang University)
20	FB15	[OS] Humanoid Robot System Design	Image Feature Tracker for SLAM with Monocular Vision	Yin-Tien Wang(Tamkang University), Duen-Yan Hung(Tamkang University), Sheng-Hsien Cheng(Tamkang
20	FB17	[OS] Motion/Function Control in Biological and Mechanical Systems II	Development of a musculoskeletal model of the hind legs of the rat based on anatomical data and generation of locomotion based on kinematic data	Takahiro Kondo(Kyoto University), Shinya Aoi(Kyoto University), Dai Yanagihara(University of Tokyo), Sho Aoki(University of Tokyo), Hiroshi Yamaura(University of Tokyo), Naomichi Ogihara(Keio University), Akira Ichikawa(Kyoto University), Kazuo Tsuchiya(Doshisha University)
20	FB17	[OS] Motion/Function Control in Biological and Mechanical Systems II	Dynamic rolling locomotion by spherical mobile robots considering its generalized momentum	Masato Ishikawa(Osaka University), Ryohei Kitayoshi(Kyoto University), Toshiharu Sugie(Kyoto
20	FB17	[OS] Motion/Function Control in Biological and Mechanical Systems II	An impedance control for simplified hydraulic model with Casimir functions	Sakai Satoru(Shinshu univ)
20	FB17	[OS] Motion/Function Control in Biological and Mechanical Systems II	A snake robot propelling inside of a pipe with helical rolling motion	Toshimichi Baba(Okayama University), Yoshihide Kameyama(Okayama University), Tetsushi Kamegawa(N/A), Akio Gofuku(N/A)
20	FB18	[OS] Robot Control and Sensing	Development of the Multi-Axis Control Platform for Robot Arm	Han-Pang Huang(National Taiwan University), Yen-Tsung Chen(Mechanical Engineering Department, National Taiwan University.), Ren-Jeng Wang(Mechanical Engineering Department, National Taiwan University.), Meng-Ku Chi(Mechanical Engineering Department, National Taiwan University.)
20	FB18	[OS] Robot Control and Sensing	Using dual lights for robotic pavement inspection	Yung-Shun SU(National Taiwan University), Shih Chung Kang(National Taiwan University), Jia-Ruey CHANGE(Minghsin Universite of Science and Technology), Shang-Hsien HSIEH(National Taiwan
20	FB18	[OS] Robot Control and Sensing	Realization of a 9-axis Inertial Measurement Unit toward Robotic Applications	Jau-Ching Lu(National Taiwan University), Chia-Hung Tsai(National Taiwan University), Pei-Chun Lin(National Taiwan University)
20	FB18	[OS] Robot Control and Sensing	An Artificial Iris for Light Intensity Modulation of Humanoid Robot Vision	Wen-Pin Shih(National Taiwan University), Tsung-Chun Hsu(National Taiwan University), Ching-Heng Lu(National Taiwan University), Yu-Ting Huang(National Taiwan University), Wen-Shiang Chen(National Taiwan University)
20	FB18	[OS] Robot Control and Sensing	Human Intention Estimation Method for a New Compliant Rehabilitation and Assistive Robot	Jiun-Yih Kuan(National Taiwan University), Tz-How Huang(National Taiwan University), Han-Pang Huang(National Taiwan University)

20	FB19	[OS] Sensing, Control and Safety System for Intelligent Vehicle	Robust environment perception based on occupancy grid maps for autonomous vehicle	Naoki Suganuma(Kanazawa Univ.), Toshiki Matsui(Okayama Prefectural Univ.)
20	FB19	[OS] Sensing, Control and Safety System for Intelligent Vehicle	Research on Hitting Tasks Performed by the Tennis Robot	Masatoshi Hatano(Nihon Univ.)
20	FB19	[OS] Sensing, Control and Safety System for Intelligent Vehicle	Probabilistic Appearance based Object Modeling and Its Application to Car Recognition	Mamoru Saito(Osaka Municipal Technical Research Institute), Katsuhisa Kitaguchi(Osaka Municipal Technical Research Institute)
20	FB19	[OS] Sensing, Control and Safety System for Intelligent Vehicle	Arbitrary 3D View Image Generation Using a Single Camera and a Spin Mirror	Fei GU(Tokyo City University), Takayuki NAKATA(Toyama Prefectural University), Yue
20	FB19	[OS] Sensing, Control and Safety System for Intelligent Vehicle	Modelling and Control of Hyper-Redundancy Mobile Manipulator Bracing Multi-Elbows for High Accuracy / Low-Energy Consumption	Geng Wang(University of Fukui), Mamoru Minami(Okayama University)
20	FB19	[OS] Sensing, Control and Safety System for Intelligent Vehicle	Availability of Multi-Preview Control of PA10 with Avoidance Manipulability Analyses	Yang Hou(University of Fukui), Yusaku Nakamura(University of Fukui), Maki Yamazaki(University of Fukui), Tongxiao Zhang(University of Fukui), Mamoru Minami(Okayama University)
21	SA01	[OS] Advanced Industrial Control I	Unified Motion Controller Design and FPGA-Based Implementation for Nonholonomic Mobile Robots	Ching-Chih Tsai(National Chung-Hsing University,), Feng-Chun Tai(National Chung Hsing University)
21	SA01	[OS] Advanced Industrial Control I	A TSK-Type Recurrent Fuzzy Neural Network Adaptive Inverse Modeling Control for a Class of Nonlinear Discrete-Time Time-Delay Systems	Ya-Ling Chang(National Chung Hsing University), Ching-Chih Tsai(National Chung-Hsing University,)
21	SA01	[OS] Advanced Industrial Control I	Cascaded Fuzzy Control for Air Source Heat Pumps	Tsai1 Kuei-I(National Chin-Yi University of Technology), Ching-Chih Tsai(National Chung-Hsing University,)
21	SA01	[OS] Advanced Industrial Control I	"Adaptive Quadrature Node Placement for Optimal Control on System of Multi-Degree of Freedom"	Pui Hang Ko(The Chinese University of Hong Kong), Ruxu Du(The Chinese University of Hong Kong)
21	SA01	[OS] Advanced Industrial Control I	Robust Output Feedback Control for Saturated Linear Systems with Magnitude and Rate Constraints	Pang-Chia Chen(Kao Yuan University)
21	SA01	[OS] Advanced Industrial Control I	Trajectory Tracking and Regulation of a Self-Balancing Two-Wheeled Robot : A Backstepping Sliding-Mode	Ching-Chih Tsai(National Chung-Hsing University,), Shang-Yu Ju(National Chung Hsing University)
21	SA02	Information Systems for Transportation I	A DSP Based Real-Time Front Car Detection Driving Assistant System	Stephen P. Tseng(National Taipei University of Technology), Derek Fong(National Taipei University of
21	SA02	Information Systems for Transportation I	Mobile phone application for ecodriving	Noriaki Ishikawa(Hosei University), Keisuke Onda(Hosei University), Kajiro Watanabe(Hosei University), Kazuyuki Kobayashi(Hosei University), Yosuke Kurihara(Seikei
21	SA02	Information Systems for Transportation I	Mobile phone application for safe driving at an intersection	Keisuke Onda(Hosei University), Noriaki Ishikawa(Hosei University), Kajiro Watanabe(Hosei University), Kazuyuki Kobayashi(Hosei University), Yosuke Kurihara(Seikei

21	SA02	Information Systems for Transportation I	Development of Bus Location System Using Smart Phones	Naoki Kanatani(Tottori University), Kazunori Sugahara(Tottori University), Takao Kawamura(Tottori University), Toshihiko Sasama(Tottori University)
21	SA02	Information Systems for Transportation I	Markup Language for Designing Layout of Bus Timetables	Takeshi Yamane(Tottori University), Toshihiko Sasama(Tottori University), Takao Kawamura(Tottori University), Kazunori Sugahara(Tottori University)
21	SA02	Information Systems for Transportation I	Determining Location of Bus and Path Planning Considering Bus Delay	Yoshifumi Ishizaki(Tottori University), Toshihiko Sasama(Tottori University), Takao Kawamura(Tottori University), Kazunori Sugahara(Tottori University)
21	SA03	[OS] Image-based Applications in Food and Agriculture	Construction of the Prototype System for the Chromatic Image Analysis using Color Distribution Entropy	Yoshitsugu Kimura(Mie University), Kyosuke Yamamoto(Mie University), Takashi Togami(Mie University), Yosuke Yoshioka(National Agriculture and Food Research Organization), Atsushi Hashimoto(Mie University), Takaharu Kameoka(Mie University)
21	SA03	[OS] Image-based Applications in Food and Agriculture	Web-based Image Viewer for Agricultural High-definition Monitoring	Shohei Toda(Shinshu Univercity), Kazuki Kobayashi(Shinshu Univercity), Fumitoshi Kobayashi(Shinshu Univercity), Yasunori Saitoh(Shinshu
21	SA03	[OS] Image-based Applications in Food and Agriculture	Color Appearance Evaluation of Agricultural Products Image Based on Spectral Information of Lighting	Kentarou Furusawa(Mie University), Ken-ichiro Suehara(Mie University), Takaharu Kameoka(Mie University), Atsushi Hashimoto(Mie University)
21	SA03	[OS] Image-based Applications in Food and Agriculture	Color Image Database Construction for the Strawberry Breeding	Kyosuke Yamamoto(Mie University), Yoshitsugu Kimura(Mie University), Takashi Togami(Mie University), Yosuke Yoshioka(National Agriculture and Food Research Organization), Atsushi Hashimoto(Mie University), Takaharu Kameoka(Mie University)
21	SA03	[OS] Image-based Applications in Food and Agriculture	Color Chart of European Pear `Le Lectier` based on the Color Image Analysis	YOSHITAKA MOTONAGA(Niigata University), TATSUYA MATSUMOTO(Niigata Agricultural Research Institute), Naohiko MOTONAGA(Niigata Agricultural
21	SA03	[OS] Image-based Applications in Food and Agriculture	Low Cost Image Acquisition System for Field Monitoring	Ryoei Ito(Mie University), Chiaki Yamaguchi(Mie University)
21	SA04	[OS] Plant Modeling	Frequency Domain Analysis of Plant Model Using Closed-Loop Step Response Data	Yoshihiro Matsui(Tokyo National College of Technology), Tomohiko Kimura(Tokyo National College of Technology), Kazushi Nakano(The University of Electro-
21	SA04	[OS] Plant Modeling	Integrated Actuator-Sensor System of Bucky Gel Device	Kazuhiro Tanaka(Tokyo Institute of Technology), Sugiura Motonobu(Tokyo Institute of Technology), Yamakita Masaki(Tokyo Institute of Technology), Norihiro KAMAMICHI(Tokyo Denki University), Toshiharu Mukai(RIKEN (The Institute of Physical and Chemical

21	SA04	[OS] Plant Modeling	Robust Falling-down Avoidance Control for Acrobat Robot Using Switching Controller	Yusuke Yashiro(Tokyo Institute of Technology), Masaki Yamakita(Tokyo Institute of Technology), Shinya Hirano(RIKEN), Zhi Wei Luo(Kobe University)
21	SA04	[OS] Plant Modeling	Modeling and Calibration of Automatic Guided Vehicle	Kosuke Tanaka(UEC), Kenji Sawada(The University of Electro-Communications), Seiichi Shin(University of Electro-Communications), Kenji Kumagai(Murata Machinery, LTD.), Hisato Yoneda(Murata Machinery,
21	SA04	[OS] Plant Modeling	Shared Engine Model for Automotive Engine Calibration Platform Development in JCUG	Akira Ohata(Toyota Motor Co.)
21	SA05	Vision Systems III	Face-Recognition Based on Higher-Order Local Auto Correlation Feature for Speaker Array System	yusuke kitano(Tokyo University of Science)
21	SA05	Vision Systems III	Development of a Time-sharing-based Color-assisted Vision System for Persons with Color-vision Deficiency	Tomoyuki Ohkubo(Graduate School of Engineering,Hosei University), Kazuyuki Kobayashi(Hosei University), Kajiro Watanabe(Hosei University), Yosuke Kurihara(Seikei
21	SA05	Vision Systems III	Creating an Entire Object Model Employing Virtual See-through Cameras	Toshimasa Sone(Kyushu Institute of Technology), Meishan Piao(Kyushu Institute of Technology), Joo Kooi Tan(Kyushu Institute of Technology), Hyongseop Kim(Kyushu Institute of Technology, Japan), Seiji Ishikawa(Kyushu Institute of Technology, Japan)
21	SA05	Vision Systems III	A study on obstacle detection using 3D Hough Transform with corner	sun min Hwang(Pusan national university), Chiyen Kim(Pusan National University), JunYoung Baek(Pusan National University), hyeon seob Eom(Pusan National University), mincheol Lee(Pusan National University)
21	SA05	Vision Systems III	Improved face recognition algorithm employing SURF descrpitors	Minku Kang(Sejong University), Wonkook Choo(Sejong Univ), Seungbin Moon(Sejong University)
21	SA05	Vision Systems III	A Fast feature extraction Algorithm for Omni-directional Vision System	jinhui zhu(South China University of Technology)
21	SA06	Healthcare and Welfare III	A Study on Gait Analysis by Measuring Axis Rotation Based on 3D Magnetic Sensor and 3D Acceleration Sensor	akira minami(Hosei University), horikawa teruo(Hosei University), Kazuyuki Kobayashi(Hosei University), Tomoyuki Ohkubo(Graduate School of Engineering,Hosei University), Kajiro Watanabe(Hosei University), Yosuke
21	SA06	Healthcare and Welfare III	Measurement of impacts on legs in walking	Nobuaki Takahashi(Ritsumeikan University), Tomohiro Tanaka(Ritsumeikan Univ.BKC), Yuuki Matsuda(Ritsumeikan University), Shigeru
21	SA06	Healthcare and Welfare III	CONSTRUCTION OF ADVICE SYSTEM TO KEEP WALKING ABILITY FOR PHYSICAL HEALTH	Tomohiro Tanaka(Ritsumeikan Univ.BKC), Nobuaki Takahashi(Ritsumeikan University), Yuuki Matsuda(Ritsumeikan University), Shigeru

21	SA06	Healthcare and Welfare III	Development of a rehabilitation support system with a shoe-type measurement device for walking	Chikamune Wada(Kyushu Institute of Technology), Yukinobu Sugimura(Graduate School of Life Science and Systems Engineering Kyushu Institute of Technology)
21	SA06	Healthcare and Welfare III	Gait Assessment for Elderly Using a Portable Acceleration Monitoring Device	Naruhiro Shiozawa(Ritsumeikan University), Shima OKADA(Ritsumeikan university), Masaaki MAKIKAWA(Ritsumeikan University)
21	SA06	Healthcare and Welfare III	MEASUREMENT OF SIDE UNBALANCE OF BODY IN WALKING	Yuuki Matsuda(Ritsumeikan University), Nobuaki Takahashi(Ritsumeikan University), Tomohiro Tanaka(Ritsumeikan Univ.BKC), Shigeru TAKAYAMA(Ritsumeikan University BKC)
21	SA07	[OS] Control Synthesis for Robustness, Synchronization, and Intelligent Adaptation	A Disturbance Attenuation Controller Design for Two-inertia Systems which Explicitly Depends on Physical Parameters	Yasuhide KOBAYASHI(Nagaoka University of Technology), Yuta Sugano(Nagaoka University of Technology), Tetsuya Kimura(Nagaoka University of
21	SA07	[OS] Control Synthesis for Robustness, Synchronization, and Intelligent Adaptation	Design of Adaptive Backstepping Tracking Controllers for a Class of Mismatched Perturbed Chaotic Synchronization Systems	Yan-Si Lin(National Sun Yat-Sen University), Chih-Chiang Cheng(NSYSU)
21	SA07	[OS] Control Synthesis for Robustness, Synchronization, and Intelligent Adaptation	Design and Control of a RGB LED System	Chun-Wen Tang(National Taiwan University), Fu-Cheng Wang(National Taiwan University), Bin-Juine Huang(National Taiwan University)
21	SA07	[OS] Control Synthesis for Robustness, Synchronization, and Intelligent Adaptation	Robust Control of a Furuta Pendulum	Chung-Huang Yu(National Yang-Ming University), Fu-Cheng Wang(National Taiwan University), Yu-Ju Lu(National Taiwan University)
21	SA07	[OS] Control Synthesis for Robustness, Synchronization, and Intelligent Adaptation	A SVD Based Controller Reduction Method	Kin Cheong Sou(Lund University), Anders Rantzer(Lund University)
21	SA07	[OS] Control Synthesis for Robustness, Synchronization, and Intelligent Adaptation	Verification of Consensus in Networks of Heterogeneous LTI Agents	Ulf Torbjorn Jonsson(Royal Institute of Technology), Chung-Yao Kao(National Sun Yat-Sen University)
21	SA08	[OS] Fuzzy Systems Analysis and Control	Self-constructing Recurrent Fuzzy Neural Network for Ultrasonic Motor Drive	Lin Hong(National Kaohsiung University of Applied Sciences)
21	SA08	[OS] Fuzzy Systems Analysis and Control	Optimal Control of Uncertain Fuzzy Model Based Delay Systems	Ming Ren Hsu(National Kaohsiung University of Applied Sciences), Wen Hsien Ho(Kaohsiung Medical University), Ming Chang Zheng(National Kaohsiung First University of Science and Technology), Jyh-Horng Chou(National Kaohsiung First University of Science and Technology), Ching Hsiang Lee(National Kaohsiung University of
21	SA08	[OS] Fuzzy Systems Analysis and Control	Control of Singular Fuzzy Systems with Time Delays	Ching Hsiang Lee(National Kaohsiung University of Applied Science), Jine Hua Wang(National Kaohsiung University of Applied Sciences)

21	SA08	[OS] Fuzzy Systems Analysis and Control	The design of an autonomous parallel parking neuro-fuzzy controller for a car-like mobile robot	Zhi-Long Wang(National Kaohsiung University of Applied Sciences), Jhu-Shoung Yung(National Kaohsiung University of Applied Sciences), Tong-Yi Guo(National Kaohsiung University of Applied Sciences)
21	SA08	[OS] Fuzzy Systems Analysis and Control	Robust H∞-Fuzzy Static Output Feedback Control Design	Ching Hsiang Lee(National Kaohsiung University of Applied Science), Chun-Hsiung Fang(National Kaohsiung University of Applied Sciences)
21	SA08	[OS] Fuzzy Systems Analysis and Control	Fuzzy PID Controller Design using Self Adaptive Bacterial Foraging Optimization	Te-Jen Su(National Kaohsiung University of Applied Sciences)
21	SA09	Genetic Network Programming I	Genetic Network Programming with Exception Control	QingBiao MENG(Waseda University), Shingo Mabu(Waseda University), Kotaro Hirasawa(Waseda
21	SA09	Genetic Network Programming I	Hybrid Rule Mining based on Fuzzy GNP and Probabilistic Classification for Intrusion Detection	Nannan Lu(Graduate School of Information, Production and Systems, Waseda University), Shingo Mabu(Waseda University), Wenjing Li(Waseda University), Kotaro Hirasawa(Waseda University)
21	SA09	Genetic Network Programming I	A Bidding Strategy based on Genetic Network Programming in Continuous Double Auctions	Chuan Yue(Waseda University), Shingo Mabu(Waseda University), geng dong Yu(Waseda University), Yu Wang(Waseda University), Kotaro Hirasawa(Waseda
21	SA09	Genetic Network Programming I	Functionally Distributed Systems Using Parallel Genetic Network Programming	Yiwen Zhang(Graduate School of Information, Production and Systems, Waseda University), Xianneng Li(Waseda Univ.), Yang Yang(Graduate School of Information, Production and Systems, Waseda University), Shingo Mabu(Waseda University), Kotaro Hirasawa(Waseda
21	SA09	Genetic Network Programming I	Generalized Rule Accumulation Based On Genetic Network Programming Considering Different Population Size and Rule Length	Lutao Wang(Graduate School of Information, Production, and Systems, Waseda University, Japan), Shingo Mabu(Waseda University), Fengming Ye(Graduate School of Information, Production, and Systems, Waseda Univ.), Kotaro Hirasawa(Waseda University)
21	SA09	Genetic Network Programming I	Time Related Association Rules Mining with Attributes Accumulation Mechanism Applied to Large-scale Traffic System	Xiaoli Wang(Waseda University), Huiyu Zhou(Waseda University), Shanqing Yu(Waseda University), Shingo Mabu(Waseda University), Kotaro Hirasawa(Waseda
21	SA10	[OS] Recent Development of Core Technology for Energy-saving Wheel Motors in Taiwan	Analysis of Iron Losses in a Wheel Motor with High Quality Silicon Steel Plates	Po Wei Huang(National Cheng Kung University), Mi-Ching Tsai(NCKU), Ming-Yang Cheng(National Cheng Kung University)
21	SA10	[OS] Recent Development of Core Technology for Energy-saving Wheel Motors in Taiwan	A Matching Design for Super-Capacitor and Li-Ion Battery Cooperation in Electric Wheel Motors	Shyh-Jier Huang(National Cheng Kung University), Fu-Sheng Pai(National University of Tainan), Bo-Ke Huang(National Cheng Kung University)

21	SA10	[OS] Recent Development of Core Technology for Energy-saving Wheel Motors in Taiwan	A Novel Changeover Technique for Variable-Winding Brushless DC Motor Drives	Ming-Shyan Wang(Southern Taiwan University)
21	SA10	[OS] Recent Development of Core Technology for Energy-saving Wheel Motors in Taiwan	Driving and Regenerative Braking Method for Energy-Saving Wheel Motor	Tien-Chi Chen(National Cheng Kung University)
21	SA11	[OS] Recent advances in temperature measurement	Evaluation of fluorescent inorganic materials in low temperature region	Hiroaki Aizawa(Toyo University), Yukari Miyazaki(Toyo University), Tooru Katsumata(Toyo University), Shuji Komuro(Toyo University)
21	SA11	[OS] Recent advances in temperature measurement	Thermoelectric Stability of Pt/Pd Thermocouples around 1500 ツーC	Hideki Ogura(National Institute of Advanced Industrial Science and Technology (AIST)), Masaya Izuchi(National Institute of Advanced Industrial Science and Technology (AIST), Jun Tamba(National Institute of Advanced Industrial Science and Technology (AIST), Masaru Arai(National Institute of Advanced Industrial Science and
21	SA11	[OS] Recent advances in temperature measurement	High-temperature tungsten-cell fixed points for on site calibration of pyrometers for the measurement of melting temperature of nuclear fuels	Naohiko Sasajima(National Metrology Institute of Japan (NMIJ), AIST), Yoshiro Yamada(National Metrology Institute of Japan (NMIJ), AIST), Juntaro Ishii(AIST)
21	SA11	[OS] Recent advances in temperature measurement	Automatic calibration apparatus for clinical electrical thermometers	Shu-Fei Tsai(Center for Measurement Standards/Industrial Technology Research Institute), Wei-Jeng Chang(Center for Measurement Standards/Industrial Technology Research Instit), Zong-Ying Chung(Center for Measurement Standards/Industrial Technology Research Instit)
21	SA11	[OS] Recent advances in temperature measurement	Standard source for skin type clinical thermometers	Hsinyi Ko(Industrial Technology Research Institute)
21	SA12	[OS] Recent Progress in Mechanical Metrology I	Performance evaluation of a mass comparator with a readability of 0.0001 mg	Masaaki UEKI(National Metrology Institute of Japan (NMIJ) / AIST)
21	SA12	[OS] Recent Progress in Mechanical Metrology I	Improvement in precise estimation of the pressure distortion coefficient for controlled-clearance piston-cylinders at higher pressures	Hiroaki Kajikawa(National Metrology Institute of Japan (NMIJ), AIST), Kazunori Ide(National Metrology Institute of Japan (NMIJ), AIST), Tokihiko KOBATA(National Metrology Institute of Japan / AIST)
21	SA12	[OS] Recent Progress in Mechanical Metrology I	Long-term evaluation of effective area ratio of pressure balances	Tokihiko KOBATA(National Metrology Institute of Japan / AIST), Momoko Kojima(National Metrology Institute of Japan, AIST), Hiroaki Kajikawa(National Metrology Institute of Japan (NMIJ), AIST)
21	SA12	[OS] Recent Progress in Mechanical Metrology I	Development of calibration system for pressure transducers in the range of 10 kPa absolute pressure	Momoko Kojima(National Metrology Institute of Japan, AIST), Tokihiko KOBATA(National Metrology Institute of

21	SA12	[OS] Recent Progress in Mechanical Metrology I	Proposal and evaluation of the center of gravity estimate method by using the lower limb positional data	Yukinobu Sugimura(Graduate School of Life Science and Systems Engineering Kyushu Institute of Technology), Chikamune Wada(Kyushu Institute of Technology)
21	SA13	Modeling and System Identification I	A New Discrete-Time Model for a van der Pol Oscillator	Triet Nguyen Van(University of Tsukuba, Graduate School of Systems and Information Engineering), Noriyuki Hori(University of Tsukuba, Graduate School of Systems
21	SA13	Modeling and System Identification I	H2 Model Reduction Using an Algebraic Approach	Masaaki Kanno(Niigata University)
21	SA13	Modeling and System Identification I	Distributed control architecture for "Multi-agent Transportation (MAT) system" with {3,6} configuration	Keizo MIYAHARA(Shibaura Institute of Technology)
21	SA13	Modeling and System Identification I	Model Reduction of Biochemical Networks	Chun-Liang Lin(National Chung Hsing University), Yen-Chang Liu(National Chung Hsing University)
21	SA13	Modeling and System Identification I	Dynamical Analysis of A Third-Order Nonlinear Amplitude Equation for Plasma Torch	Der-Cherng Liaw(National Chiao Tung University), Shih-Tse Chang(National Chiao Tung University), Heng-Yi Li(Institute of Nuclear Energy Research), Chin-Ching Tzeng(Institute of Nuclear Energy Research), Shiaw-Huei Chen(Institute of Nuclear Energy Research)
21	SA13	Modeling and System Identification I	Accuracy Improvement of Practical PV Model	Huan-Liang Tsai(Da-Yeh University), Po-Wen Hsiao(Da-Yeh university), Chih-Hao Chang(Da-Yeh)
21	SA14	[OS] Inverse Problems I	Nondestructive Measurement of Diameter of Reinforcing Bars in Concrete Using an Electromagnetic Wave Radar Under the Effect of Cross Bars	Shogo Tanaka(Graduate School of Science and Engineering, Yamaguchi University), Halima Begum(Graduate School of Science and Engineering, Yamaguchi University)
21	SA14	[OS] Inverse Problems I	Measurement of Body Fat Distribution by Using 3-D Electrical Impedance Tomography: Numeric and Phantom	Tadashi Ito(Gunma University), Toshihide Sakui(Gunma University), Tokichika Inose(Gunma University)
21	SA14	[OS] Inverse Problems I	Near-field Acoustical Imaging of Cracks over the A0-mode Lamb-wave Field	Kenbu Teramoto(Saga University)
21	SA14	[OS] Inverse Problems I	Free Viewpoint Video Synthesis on Human Action Using Shape From Silhouette Method	Taku Watanabe(Keio University)
21	SA14	[OS] Inverse Problems I	Direct estimation of wave source location from weighted integral measurements on finite boundary	Shigeru Ando(The University of Tokyo), Toru Kurihara(The University of Tokyo)
21	SA14	[OS] Inverse Problems I	Partially Filled Flow Tomography with Electro-Magnetic	Miki Sakuratani(Keio University), Satoshi Honda(Keio
21	SA15	[OS] Nexus System Design: New interaction among Humans, Agents, and Robots I	Towards an objective generation as an autonomous agent architecture	Ayano Kanamaru(The University of Electro-Communications), Kiyohiko Hattori(University of Electro Communications), Hiroyuki Sato(University of Electro Communications), Keiki Takadama(The University of

21	SA15	[OS] Nexus System Design: New interaction among Humans, Agents, and Robots I	Entrainment between Speech and Gestures in Human-Robot Interaction	Takamasa Iio(ATR / Doshisha University), Masahiro Shiomi(ATR Intelligent Robotics and Communication Laboratories), Kazuhiko Shinozawa(ATR Intelligent Robotics and Communication Laboratories), Takaaki Akimoto(ATR Intelligent Robotics and Communication Laboratories), Katsunori Shimohara(Doshisha University), Norihiro Hagita(ATR Intelligent Robotics and
21	SA15	[OS] Nexus System Design: New interaction among Humans, Agents, and Robots I	Comic Live Chat: Communication Tool Based on Concept of Downgrading	Misaki Matsuda(Doshisha University), Ivan Tanev(Doshisha University), Katsunori Shimohara(Doshisha University)
21	SA15	[OS] Nexus System Design: New interaction among Humans, Agents, and Robots I	Context Dependency of Facial Expressions in Communications	Hiroto Fukushima(Graduate School of Engineering, Doshisha University), Ivan Tanev(Doshisha University), Katsunori Shimohara(Doshisha University)
21	SA15	[OS] Nexus System Design: New interaction among Humans, Agents, and Robots I	Proposal of highly accurate position estimation system using movement history of wireless terminals and wireless communications	Kiyohiko Hattori(University of Electro Communications), Nobuo NAKAJIMA(University of Electro-Communications, Japan), Keiki Takadama(The University of Electro-
21	SA17	[OS] Passive Dynamic Walk	Implicit Control Law in Passive Dynamic Walking	Koichi Osuka(Osaka University), Yasuhiro Sugimoto(Osaka University), Akio Ishiguro(Tohoku University), Dai Owaki(Tohoku University), Xin-Zhi Zheng(ASTEM RI)
21	SA17	[OS] Passive Dynamic Walk	Realization and Motion Analysis of Multi-legged Passive Dynamic Walking	Yasuhiro Sugimoto(Osaka University), Hidetaka Yoshioka(Kobe Univ.), Koichi Osuka(Osaka University)
21	SA17	[OS] Passive Dynamic Walk	Modification of Learning Optimal Gait Generation Method in Considering Discontinuous Velocity Transitions	Satoshi Satoh(Nagoya University), Masahito Ikeda(Nagoya University), Kenji Fujimoto(Nagoya University), Yoshikazu Hayakawa(Nagoya University)
21	SA17	[OS] Passive Dynamic Walk	Dynamical model verification of Passive Dynamic Walking with a compass model prototype	Masatsugu Iribe(Osaka Electro-Communication University), Tetsuya Kinugasa(Okayama University of Science), Yasuhiro Sugimoto(Osaka University), Koichi Osuka(Osaka
21	SA17	[OS] Passive Dynamic Walk	Turning motion by control constraint mechanism of passive dynamic walking	Kazuyuki Hyodo(Toyota Technological Institute), Sadayoshi Mikami(Future University-Hakodate), Tatsuo Narikiyo(Toyota Technological Institute), Michihiro Kawanishi(Toyota Technological Institute)
21	SA18	Networked and/or Embedded Systems	Design and Development of RT-Component Plug and Play system for USB devices	Yusuke ZAMA(Shibaura Institute of Technology), Motomasa TANAKA(Shibaura Institute of Technology), Tsunehiko FUJITA(Shibaura Institute of Technology), Makoto MIZUKAWA(Shibaura Institute of Technology), Takashi YOSHIMI(Shibaura Institute of Technology), Yoshinobu ANDO(Shibaura Institute of Technology)

21	SA18	Networked and/or Embedded Systems	Design of the Redundant RTC-CANopen Component	Yuhki ISHIGURO(Shibaura Institute of Technology), Motomasa TANAKA(Shibaura Institute of Technology), Makoto MIZUKAWA(Shibaura Institute of Technology), Takashi YOSHIMI(Shibaura Institute of Technology), Yoshinobu ANDO(Shibaura Institute of Technology)
21	SA18	Networked and/or Embedded Systems	Design of Firmware Update System of RT-Middleware for Embedded System	Katsuhiro Mayama(Shibaura Institute of Technology), Motomasa TANAKA(Shibaura Institute of Technology), Yoshinobu ANDO(Shibaura Institute of Technology), Takashi YOSHIMI(Shibaura Institute of Technology), Makoto MIZUKAWA(Shibaura Institute of Technology)
21	SA18	Networked and/or Embedded Systems	Development of the Protocol System for the Data Communication in the Ship	Hag Tae Kim(Chonbuk National University), Felipe IV Patino Vista(Chonbuk National University), Mun Kyu Song(Wonkwang University), Kilto Chong(Chonbuk
21	SA18	Networked and/or Embedded Systems	Ad-hoc Network Routing Protocol for an Application Layer	Wataru Uemura(Ryukoku University), Masashi Murata(Ryukoku University)
21	SA18	Networked and/or Embedded Systems	Evaluation of Intelligent battery using CANopen	koji ishida(Shibaura Institute of Technology), Motomasa TANAKA(Shibaura Institute of Technology), Yoshinobu ANDO(Shibaura Institute of Technology), Takashi YOSHIMI(Shibaura Institute of Technology), Makoto MIZUKAWA(Shibaura Institute of Technology)
21	SA19	Intelligent System and Control	Control system design based on distributed probabilitic model-building genetic algorithm	Michihiro Kawanishi(Toyota Technological Institute), Tomohiro Kaneko(Toyota Technological Institute), Tatsuo Narikiyo(Toyota Technological Institute)
21	SA19	Intelligent System and Control	Balance Control for Two-Wheeled Robot via Neural-Fuzzy Technique	Kuo-Ho Su(Chinese Culture University), Yih-Young Chen(Chinese Culture University)
21	SA19	Intelligent System and Control	Neural Network Adaptive Control and Repetitive Control for High Performance Precision Motion Control	Chi-Ying Lin(National Taiwan University of Science and Technology)
21	SA19	Intelligent System and Control	Repetitive Tracking Control of DC Motors Using a Fuzzy Iterative Learning Controller	Chiang-Ju Chien(Huafan University), Ssu-Lung Hsu(Huafan University)
21	SA19	Intelligent System and Control	A study of color features for reading a resistor	Yoshihiro Mitani(Ube National College of Technology), Yoshihiko Hamamoto(Yamaguchi University)
21	SA19	Intelligent System and Control	Automatic Construction of Weave Diagram of Warp-knitted Fabric Using Positional Information on Yarn	Toshihiro Shinohara(Kinki University)
21	SB01	[OS] Advanced Industrial Control II	Neural-network-based predictive control for nonlinear	Chi Huang Lu(Hsiuping Institute of Technology)
21	SB01	[OS] Advanced Industrial Control II	Trajectory Planning and Motion Control of a Two-Armed Robot	Ching-Chih Tsai(National Chung-Hsing University,), Liang Ting-Ting(National Chung Hsing University), YiYu Li(National Chung Hsing University)
21	SB01	[OS] Advanced Industrial Control II	Particle Swarm Optimization Algorithm for Optimal Configurations of an Omnidirectional Mobile Service Robot	Hsu-Chih Huang(HungKuang University), Ching-Chih Tsai(National Chung Hsing UNversity)

21	SB01	[OS] Advanced Industrial Control II	FPGA Implementation of a Real-Time Image Tracking System	Yuan-Pao Hsu(National Formosa University), Hsiao-Chun Miao(National Formosa University), Ching-Chih Tsai(National Chung-Hsing University,)
21	SB02	Information Systems for Transportation II	The next generation Digital Road Map Creation Support System Using a Mobile Mapping System	Kiichiro Ishikawa(Waseda University), Masashi Takano(Waseda University), Yoshiharu Amano(Waseda University), Takumi Hashizume(Waseda University)
21	SB02	Information Systems for Transportation II	Navigation System based on GPS and Dead-Reckoning Data Fusion	TAEYEONG KIM(KOREA Chonbuk National University), YOUNGCHUL KIM(Kunsan National University), Kilto Chong(Chonbuk national University)
21	SB02	Information Systems for Transportation II	Intelligent Collision Risk Assessment Based on Neural Network Ensemble	Beomseong Kim(Yonsei University), Seongkeun Park(Yonsei University), Baehoon Choi(Yonsei University), Euntai Kim(Yonsei University)
21	SB02	Information Systems for Transportation II	Collision Risk Assessment for Pedestrians' Safety: Neural Network with Interacting Multiple Model Apporach	Seongkeun Park(Yonsei University), Beomseong Kim(Yonsei University), Baehoon Choi(Yonsei University), Euntai Kim(Yonsei University)
21	SB02	Information Systems for Transportation II	An Estimation of Link Travel Time in Urban Road Networks	Hikaru Shimizu(Fukuyama University), Yoshiyuki Moritou(Fukuyama University), Masa-aki Kobayashi(Fukuyama University)
21	SB02	Information Systems for Transportation II	Long-term Prediction of GPS Satellite Orbit	Li Sheng Wang(National Taiwan University), Tin-An Hsu(Institute of Applied Mechanics, National Taiwan University), Fan-Ren Chang(National Taiwan University), Yi-Fen Tseng(Fujitsu Microelectronics Pacific Asia Ltd.)
21	SB03	[OS] ICT Applications in Food and Agriculture	Visual Guideware as an Information Tools in the Farm	Takashi Togami(Mie University), Kyosuke Yamamoto(Mie University), Yoshitsugu Kimura(Mie University), Atsushi Hashimoto(Mie University), Takaharu Kameoka(Mie
21	SB03	[OS] ICT Applications in Food and Agriculture	Thermal Image Utilization on the Vigor Diagnosis of Mandarin Orange Tree	Yuichi Ohtani(Mie University), Takashi Togami(Mie University), Yoshitsugu Kimura(Mie University), Atsushi Hashimoto(Mie University), Takaharu Kameoka(Mie
21	SB03	[OS] ICT Applications in Food and Agriculture	Conceptualization and Implementation of Food User Experience Technologies	Shih-Chieh Li(Academia Sinica), Hajime Nagai(Suntory Holdings Ltd.), Yoshinori Sato(Tohoku Gakuin University), Takaharu Kameoka(Mie University)
21	SB03	[OS] ICT Applications in Food and Agriculture	Deployment and Improvement of Field Servers in India	Masayuki Hiraruji(National Agricultural Research Center), Hideo Yoichi(National Agriculture and Food Research Organization), Yugo Miki(National Agriculture and Food Research Organization), Takuji Kiura(National Agriculture and Food Research Organization), Kei Tanaka(National Agriculture and Food Research Organization), Tokihiro Fukatsu(National Agriculture and Food Research Organization), Seishi Ninomiya(National Agriculture and

21	SB03	[OS] ICT Applications in Food and Agriculture	Laser Speckle Pattern Measurement for Plant State Monitoring	Hiroaki Ishizawa(Shinshu University), Masaki Kawamura(Shinshu University), Takuro Horiguchi(Shinshu University), SHOUHEI KOYAMA(Shinshu University)
21	SB04	Advances in Industrial Applications	A Design Method for Minimum Cost Path of Flying Probe In-circuit Testers	Yuki Hiratsuka(The Univecity of Electro-Communications), Fumihiko KATO(The University of Electro-Communications), KATSUMI KONISHI(Kogakuin University), Seiichi Shin(University of Electro-
21	SB04	Advances in Industrial Applications	Temperature monitoring of Si wafer using optical low-coherence interferometry	Takayuki Ohta(Wakayama University), Masafumi Ito(Meijo University), Chisio Koshimizu(Tokyo Electron AT Ltd.)
21	SB04	Advances in Industrial Applications	Average Trajectory Calculation for Batch Processes Using Dynamic Time Warping	Toru Kashima(Yamatake Corporation)
21	SB04	Advances in Industrial Applications	Development of innovative two-dimensional absolute intensity measurement system for fluorescence measurement of biomolecules	Soichiro Shimoda(Yokogawa Electric Corporation), Toshio Iino(Yokogawa Electric Corporation), Takeo Tanaami(Yokogawa Electric Corporation)
21	SB04	Advances in Industrial Applications	Recovery of Micro Gas Sensor Array Response from Drift Effect by Means of DWT and Feature Extraction for Discriminating Gas Mixture	Sang-Jin Lee(Kyungpook National University), Young-Wung Kim(Kyungpook National University), Guk Hee Kim(Kyungpook National Universty), In Soo Lee(Kyungpook National University), Gi Joon Jeon(School of Electrical Engineering Kyungpook National Universty)
21	SB04	Advances in Industrial Applications	A study of Efficient Power Generation by Temperature Difference	Tetsuya Otaki(Hosei University), Kajiro Watanabe(Hosei University), Kazuyuki Kobayashi(Hosei University)
21	SB05	Vision Systems IV	A study of real-time path planning based on environmental recognition by using Omni-directional image for mobile robot	Kosuke Hasegawa(Hosei University), Tomoyuki Ohkubo(Graduate School of Engineering,Hosei University), Kazuyuki Kobayashi(Hosei University), Kajiro Watanabe(Hosei University), Yosuke Kurihara(Seikei
21	SB05	Vision Systems IV	A study of Visual Odometry for mobile robot using omni-directional camera	takahito nakada(Hosei University), Tomoyuki Ohkubo(Graduate School of Engineering,Hosei University), Kazuyuki Kobayashi(Hosei University), Kajiro Watanabe(Hosei University), Yosuke Kurihara(Seikei
21	SB05	Vision Systems IV	Vision Based Localization of a Small UAV for Generating a Large Mosaic Image	Taro Suzuki(Waseda University), Yoshiharu Amano(Waseda University), Takumi Hashizume(Waseda
21	SB05	Vision Systems IV	Design and Implementation of a Stereo Vision-Guided Omnidirectional Mobile Robot for Real-Time Object	Sho-Tsung Kao(National Cheng Kung University), Chung-Yi Yen(NCKU), Ming-Tzu Ho(NCKU)
21	SB05	Vision Systems IV	Three-dimensional Modeling of a Non-rigid Object Employing a Single Camera	Tsukasa Horinouchi(Kyushu Institute of Technology), Heewook Jung(Kyushu Institute of Technology), Joo Kooi Tan(Kyushu Institute of Technology), Hyongseop Kim(Kyushu Institute of Technology, Japan), Seiji Ishikawa(Kyushu Institute of Technology, Japan)

21	SB05	Vision Systems IV	Omnidirectional Vision-based Robot Localization on Soccer Field by Particle Filter	CHEN Chia-Yang(Tamkang University), Ho Cheng-Yao(Tamkang Universtiy), Hisayuki AOYAMA(The University of Electro-Communications.), Ching-Chang
21	SB06	Healthcare and Welfare IV	Tele-care system for man and machine in isolated island	Kazuya Miura(Nagasaki university), Yu Nakamura(Nagasaki university), Yoshitaka Yamaguchi(Nagasaki university), Motohiro Tanaka(Nagasaki university), takakazu ishimtsu(nagasaki
21	SB06	Healthcare and Welfare IV	Web-based 3D Visualization and Interaction of Medical Data using Web3D	Sittapong Settapat(Shibaura Institute of Technology), Tiranee Achalakul(King Mongkut's University of Technology Thonburi), Michiko Ohkura(Shibaura Institute
21	SB06	Healthcare and Welfare IV	Sound Presentation Method for Touch Panels Regarding The Use of Visually Impaired People	Keijiro Usui(Sophia University), Masamitsu Takano(Sophia University), Ikuko Eguchi Yairi(Sophia University)
21	SB06	Healthcare and Welfare IV	Investigation of figure recognition with touch panel of visually impaired people from the perspective of braille	Kumi Naoe(Sophia University), TAKANO Masamitsu(Sophia University), Ikuko Eguchi Yairi(Sophia
21	SB06	Healthcare and Welfare IV	A Web-based DICOM-Format Image Archive, Medical Image Compression and DICOM Viewer System for Teleradiology Application	Piyamas Suapang(Rangsit University)
21	SB06	Healthcare and Welfare IV	DEVELOPMENT OF A MULTI-CHANNEL WIRELESS SYSTEM FOR REAL TIME MEDICAL DATA	Wei Xu(University of Surrey), Hong Wei(University of Reading)
21	SB07	Robust Control	Effects Induced by Noncausality of Scaling on Robust Stability Analysis of Discrete-Time Periodically Time-	Yohei Hosoe(Kyoto University), Tomomichi Hagiwara(Kyoto University)
21	SB07	Robust Control	A Search Method for a Fixed-Order Controller of H2/H-infinity Control Problems	Masami Saeki(Hiroshima University), Keisuke Kawanishi(Sumitomo Metal Industries), Nobutaka Wada(Tottori University)
21	SB07	Robust Control	An Improved SOS-based Stabilization Condition for Uncertain Polynomial Systems	Tanagorn Jennawasin(Toyota technological Institute), Tatsuo Narikiyo(Toyota Technological Institute), Michihiro Kawanishi(Toyota Technological Institute)
21	SB07	Robust Control	Exact Robust H2 Performance Analysis for Linear Parameter Dependent Systems	Hiroko Fukumoto(Kobe University), Yasumasa Fujisaki(Kobe University)
21	SB07	Robust Control	Inverse LQ approach to robust stabilization of linear systems with input delay	Takao Fujii(Fukui University of Technology), Sadaaki Kunimatsu(Kumamoto University), Taro Tsujino(Fukuoka Inst. of Tech.)
21	SB07	Robust Control	On Robust Synthesis of Gain-Scheduled Controllers under Stochastic Measurement Noise on the Scheduling	Izumi Masubuchi(Hiroshima University), Yoshihisa Fujimoto(Hiroshima University)
21	SB08	[OS] Applications of sliding mode and T-S fuzzy control	Design of Simplex-Type Adaptive Sliding-Mode Controller	Ming-Ying Hsiao(Fortune Institute of Technology), Chi-Hua Liu(Fortune Institute of Technology), Shun-Hung Tsai(National Taipei University of Technology), Ta-Tau Chen(Kun Shan University), Shun-Tsai Liu(Fortune

21	SB08	[OS] Applications of sliding mode and T-S fuzzy control	Design of Simplex-Type Adaptive Fuzzy Sliding-Mode Controller	Ta-Tau Chen(Kun Shan University), Ming-Ying Hsiao(Fortune Institute of Technology), Chi-Hua Liu(Fortune Institute of Technology), Shun-Hung Tsai(National Taipei University of Technology), Chih-Chia Fan(National Taipei University of Technology), Chih-Hsiang Chang(National Taipei University of Technology)
21	SB08	[OS] Applications of sliding mode and T-S fuzzy control	Composite Observer-Based Feedback Design for Singularly Perturbed Systems via LMI Approach	Kuo Jung Lin(Fortune Institute of Technology)
21	SB08	[OS] Applications of sliding mode and T-S fuzzy control	Simplex-Type Sliding-Mode Control for A Class of Linear Discrete-Time Systems	Ta-Tau Chen(Kun Shan University), Ming-Ying Hsiao(Fortune Institute of Technology), Chi-Hua Liu(Fortune Institute of Technology), Shun-Hung Tsai(National Taipei University of Technology), Chih-Chia Fan(National Taipei University of Technology), Chih-Hsiang Chang(National Taipei University of Technology)
21	SB08	[OS] Applications of sliding mode and T-S fuzzy control	Model Reference T-S Fuzzy Tracking Control in an Eccentric Mechanism	Chin-Sheng Chen(National Taipei University of Technology, Taipei 10608, Taiwan, R.O.C.), Shun-Hung Tsai(National Taipei University of Technology)
21	SB09	Genetic Network Programming II	Face Recognition using PCA with GNP-Fuzzy Data Mining	Deng Zhang(Waseda University), Shingo Mabu(Waseda University), Karla Taboada(Graduate School of Information, Production and Systems. Waseda University), Feng Wen(Waseda University), Kotaro Hirasawa(Waseda
21	SB09	Genetic Network Programming II	Enhancing Global Portfolio Optimization using Genetic Network Programming	Victor Parque(Waseda University), Shingo Mabu(Waseda University), Kotaro Hirasawa(Waseda University)
21	SB09	Genetic Network Programming II	Trading Rules on Stock Markets Using Genetic Network Programming with Subroutines	Jianhua Li(Waseda University), QinBiao Meng(Waseda University), Yang Yang(Waseda University), Shingo Mabu(Waseda University), Kotaro Hirasawa(Waseda University), Yi fei Wang(Shanghai University)
21	SB09	Genetic Network Programming II	Automatic Program Generation with Genetic Network Programming using Subroutines	Bing Li(Waseda University), Shingo Mabu(Waseda University), Kotaro Hirasawa(Waseda University)
21	SB09	Genetic Network Programming II	Evolutionary Robot Action Development based upon Intelligent Composite Action Control	Masakazu Suzuki(Tokai University)
21	SB09	Genetic Network Programming II	Generating Trading Rules on the Stock Markets with Robust Genetic Network Programming Using Variance of Fitness	Yan Chen(Waseda University), Kotaro Hirasawa(Waseda University)
21	SB10	Manufacturing Systems and System Development Support	MDA Development of Manufacturing Execution System Based on Automatic Code Generation	kenji mizuoka(Kyushu Institute of Technology), Masanobu koga(Kyushu Institute of Technology)
21	SB10	Manufacturing Systems and System Development Support	Embedded Program Development Environment for Windshield Wiper Controller	Yoichi Shiraishi(Gunma University), Youg Zhe Chu(Gunma University), Masaya Nishikawa(Gunma University), Mona Abd El Baset Mahmoud Abo El-Dahb(Gunma University), Takanori Saito(Realize Computer Engineering)

21	SB10	Manufacturing Systems and System Development Support	Evaluation of Remote Control Support System for R/C Helicopter	Masafumi Miwa(The University of Tokushima)
21	SB10	Manufacturing Systems and System Development Support	A Uniform Laser Energy Control for Ceramic Sintering Rapid Prototyping	Stephen P. Tseng(National Taipei University of Technology), Hwa-Hsing Tang(National Taipei University
21	SB10	Manufacturing Systems and System Development Support	Simulation based Design for Inverter Power Supply	Mona Abd El Baset Mahmoud Abo El-Dahb(Gunma University), Shiraishi Yoichi(Gunma University), Tatsuno Shoji(Tokyo Seiden, co., ltd.,)
21	SB10	Manufacturing Systems and System Development Support	Development of a SOFC dynamic simulation environment	Yousuke Iida(Yamatake Corporation), Kenji Otsuka(Yamatake Corporation), Yousuke Komatsu(Shibaura Institute of Technology), Shinji
21	SB11	Sensors and Transducers	Development of Traffic Counters by Laser Range Scanners	Masahiro Tanaka(Konan University)
21	SB11	Sensors and Transducers	An Advanced Laser Rangefinder Equipped with a Scanning Simulator	Ohtani Kozo(Hiroshima Institute of Technology), Yamamoto Shin(Hiroshima Institute of Technology), Li Li(Ibaraki University), Baba Mitsuru(Ibaraki University)
21	SB11	Sensors and Transducers	A High-Density Ternary Barcode Detection System with a Fixed Period Delay Method	Hiroo Wakaumi(Tokyo Metropolitan College of Industrial Technology)
21	SB11	Sensors and Transducers	3D reconstruction of reflective surface on reflection type tactile sensor using constraints of geometrical optics	Ryosuke Taira(Tohoku University), Satoshi Saga(Tohoku University), Takayuki Okatani(Tohoku University), Koichiro Deguchi(Tohoku University)
21	SB11	Sensors and Transducers	Position and Orientation Sensor for Two-Dimensional Communication Network	Kei Nakatsuma(The University of Tokyo), Hiroyuki Shinoda(The University of Tokyo)
21	SB11	Sensors and Transducers	Enhanced Differential Voltage-to-Frequency Converter for Telemetry Applications	Amphawan Julsereewong(King Mongkut's Institute of Technology Ladkrabang), Wandee Petchmaneelumka(King Mongkut's Institute of Technology Ladkrabang)
21	SB12	[OS] Recent Progress in Mechanical Metrology 2	Evaluation of stroke and force of enlargement mechanism	Yoshitaka MORIMOTO(Kanazawa Institute of Technology), Okada Suguru(Kanazawa Institute of
21	SB12	[OS] Recent Progress in Mechanical Metrology 2	Variable speed control of hydraulically driven weight stacks in the 540 kN force standard machine	Toshiyuki HAYASHI(National Metrology Institute of Japan (NMIJ) / AIST), Yoshihisa Katase(National Metrology Institute of Japan (NMIJ), AIST), Hiroshi Maejima(National Metrology Institute of Japan (NMIJ), AIST), Yukio Yamaguchi(National Metrology Institute of Japan (NMIJ), AIST), Kazunaga Ueda(National Metrology Institute of
21	SB12	[OS] Recent Progress in Mechanical Metrology 2	Introduction to Research Activities on Traceable Force Measurements below 10 micronewton in Center for Measurement Standards	Sheng-Jui Chen(Center for Measurement Standards, Industrial Technology Research Institute), Sheau-Shi Pan(Center for Measurement Standards, Industrial
21	SB12	[OS] Recent Progress in Mechanical Metrology 2	Improvement of Formability by Servo Die Cushion in Deep drawing	Akihiro Watanabe(Gunma University), Yuji Kotani(Gunma Industrial Technology Center), Takanori YAMAZAKI(Oyama National College of Technology), Hisaki Watari(Gunma University), Takehiro

21	SB12	[OS] Recent Progress in Mechanical Metrology 2	The Design and Characteristic Study of a 3-dimensional Piezoelectric Nano-positioner	Yu-Chi Wang(National Chiao Tung University), Li-Kang Chen(National Chiao Tung University), Shao-Kang Hung(National Chiao Tung University)
21	SB12	[OS] Recent Progress in Mechanical Metrology 2	Combination of VCA based Micro Force Generator and Micro Robot for Micro Hardness and Stiffness Test	Montree PAKKRATOKE(The University of Electro-Communications), Natchapon LUEKIATPHAISAN(The University of Electro-Communications.), Hisayuki AOYAMA(The University of Electro-Communications.)
21	SB13	Modeling and System Identification II	An application of system identification theory to the ultrasound Doppler image processing system	Tatsuro Baba(Toshiba Medical Systems Corp.), Fumiya MUKAI(Keio University), Shuichi Adachi(Keio University), Naohisa KAMIYAMA(Toshiba Medical
21	SB13	Modeling and System Identification II	A Method for On-line Identification of Mechanical System by Use of M-sequence	Hiroshi Harada(Kumamoto University), Yukio Toyozawa(FANUC Corporation), Naoto Sonoda(FANUC Corporation), Hiroshi Kashiwagi(The Open University of
21	SB13	Modeling and System Identification II	The Identification of the Magnetic Bearing System with the Real Coded Genetic Algorithm	HwangHun Jeong(Korea Institute of Machinery & Materials), JooHo Yang(Pukyong National university), YoungBok Kim(Pukyong National University), SoNam Yun(Korea Institute of Machinery & Materials)
21	SB13	Modeling and System Identification II	Embedded Spectrum Identification for Lightly-Damped	Pau-Lo Hsu(NCTU)
21	SB13	Modeling and System Identification II	Radial Quantization Method for Just-In-Time Approach	Atsushi Kidono(Keio University), Shuichi Adachi(Keio University)
21	SB13	Modeling and System Identification II	Active Noise Control with Noise Power Scheduling for Online Acoustic Feedback Path Modeling	Sang-Won Nam(Hanyang University), jaebeom seo(Hanyang University), Kyoung Jae Kim(Hanyang University), Jinoh Park(Hanyang University)
21	SB14	[OS] Inverse Problems II	Two-dimensional localization of a magnetic dipole from its first order Fourier coefficients of the magnetic flux density	Takaaki Nara(The University of Electro-Communications), Yuushi Takanashi(The University of Electro-Communications), Hirotoshi Watanabe(The University of
21	SB14	[OS] Inverse Problems II	Source Reconstruction with Spatial Filter and Reduction of Artifacts in Fluorescence/ Bioluminescence Diffuse Optical Tomography	Shinpei Okawa(The University of Electro-Communications), Yukio Yamada(The University of Electro-Communications)
21	SB14	[OS] Inverse Problems II	Show-through Cancellation in Scanned Images of Thick-printed Documents	Kousuke Kojima(Shibaura Institute of Technology), Masanobu Takahashi(Shibaura Institute of Technology)
21	SB14	[OS] Inverse Problems II	ELECTRICAL CAPACITANCE TOMOGRAPHY SYSTEM FOR MONITORING PROCESS FLOW IN PIPE	APINAI RERKRATN(King Mongkut's Institute of Technology Ladkrabang), Kitiphol Chitsakul(King Mongkut's Institute of Technology Ladkrabang), Anek Soisup(King Mongkut's Institute of Technology Ladkrabang), Virot Wuti(King Mongkut's Institute of
21	SB15	[OS] Nexus System Design: New interaction among Humans, Agents, and Robots II	Harmonic Pulse Analysis to detect biologically plausible gene regulatory networks	Tetsuya Maeshiro(University of Tsukuba), Shin-ichi Nakayama(University of Tsukuba)

21	SB15	[OS] Nexus System Design: New interaction among Humans, Agents, and Robots II	Threshold Learning in the Improved Penalty Avoiding Rational Policy Making Algorithm	Miyazaki Kazuteru(National Institution for Academic Degrees and University Evaluation), Kobayashi Ryouhei(Meiji University), Hiroaki Kobayashi(Meiji
21	SB15	[OS] Nexus System Design: New interaction among Humans, Agents, and Robots II	Automatic Tuning of Judgement Parameter in Continuous State Explitation-oriented Learning	Miyazaki Kazuteru(National Institution for Academic Degrees and University Evaluation)
21	SB15	[OS] Nexus System Design: New interaction among Humans, Agents, and Robots II	Scene Evaluation of a Ball Game for Solving Batting Order Optimization	Yuya Kakui(Chiba University), Sachiyo Arai(Chiba University)
21	SB15	[OS] Nexus System Design: New interaction among Humans, Agents, and Robots II	Towards Care Plans of Aged Person by Multi-Objective Optimization	Tomohiro Shimada(University of Electro Communications), Hiroyasu Matsushima(University of Electro Communications), Hiroyuki Sato(University of Electro Communications), Kiyohiko Hattori(University of Electro Communications), Keiki Takadama(The University of
21	SB17	[OS] Biomimetic Approach in Robotics and Machines	Visual Feedback Robot System Via Fuzzy Control	Kyouhei Sakai(Kansai University), Yutaka Maeda(Kansai University), Seiji Miyoshi(Kansai University), Hiroomi Hikawa(Kansai University)
21	SB17	[OS] Biomimetic Approach in Robotics and Machines	Trackability Evaluation Experiments for Visual Servoing with Eye-Vergence Hand-Eye System	Fujia Yu(Fukui university), Song Wei(University of Shanghai), Mamoru Minami(Okayama University)
21	SB17	[OS] Biomimetic Approach in Robotics and Machines	A Formation Method for Heterogeneous Multiple Robots by Specifying the Relative Position of Each Robot	Tatsuya Kato(Graduate School of Natural Science and Technology, Okayama University), Keigo Watanabe(Okayama University), Shoichi
21	SB17	[OS] Biomimetic Approach in Robotics and Machines	A Switching Control Method for Stabilizing a Nonholonomic Mobile Robot Using Invariant Manifold	Takahiro Yamamoto(Okayama University), Keigo Watanabe(Okayama University)
21	SB18	Advances in System Integration	Anti-theft Thermal Box for Dairy Bottles	Ruilin Lin(Chienkuo Technology University), Jingchen Xie(Chienkuo Technology University)
21	SB18	Advances in System Integration	The Design of a Display Device for Swimming Caps	Ruilin Lin(Chienkuo Technology University), Jingchen Xie(Chienkuo Technology University)
21	SB18	Advances in System Integration	Projection and Least Square Fitting with Perpendicular Offsets based Vehicle License Plate Tilt Correction	Kaushik Deb(University of Ulsan), Andrey Vavilin(University of Ulsan), Kim Jong-Won(University of Ulsan), Kang-Hyun Jo(University of Ulsan)
21	SB18	Advances in System Integration	Development of contact-type alcohol checking system	Yasufumi Hamada(Hosei University), Kajiro Watanabe(Hosei University), Kazuyuki Kobayashi(Hosei
21	SB18	Advances in System Integration	A Position-Varied Plate Utilized for A Thai License Plate Recognition	Adisorn Leelasantitham(University of the Thai Chamber of Commerce)
21	SB18	Advances in System Integration	Full-Automatic Annotation of Scene Videos - Establish Eye Tracking Effectively in Various Industrial Applications	Kai Essig(Bielefeld University), Norbert Sand(Bielefeld University), Joern Kuensemoeller(Bielefeld University), Matthias Weigelt(Saarland University), Helge Ritter(Bielefeld University), Thomas Schack(Bielefeld

21	SB19	[OS] Nonlinear Control	Adaptive-Sliding-Mode Semi-Active Bicycle Suspension Fork	Fu-Kuang Yeh(ChungChou Institute of Technology), Jian-Ji Huang(Chung Chou Institute of Technology), Chia-Wei Huang(Chung Chou Institute of Technology)
21	SB19	[OS] Nonlinear Control	Fuzzy Sliding-Mode Control for a Mini-UAV	Fu-Kuang Yeh(ChungChou Institute of Technology), Ching-Mu Chen(Chung Chou Institute of Technology), Jian-Ji Huang(Chung Chou Institute of Technology)
21	SB19	[OS] Nonlinear Control	A Manifold Deformation Design Scheme for the Controls of Nonlinear Systems	Chao-Shu Liu(National Kaohsiung University of Applied Sciences), Chao Chung Liu(Chung Chou Institute of
21	SB19	[OS] Nonlinear Control	Embedded Control System Development Using UML for Automatic Doors	Chih-Min Lo(Chung Chou Institute of Technology), Sun-Jen Huang(National Taiwan University of Science and
21	SB19	[OS] Nonlinear Control	Applied Object-Oriented Programming Technology to ICT Application Development	Chih-Min Lo(Chung Chou Institute of Technology), Sun-Jen Huang(National Taiwan University of Science and