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1A01	Signal Processing (1)	642	Online estimation of complexity using variable forgetting factor	Koichi Sugisaki(Keio University),Hiromitsu Ohmori(Keio
1A01	Signal Processing (1)	553	Study on a Method of Generating a 3D Virtual Foot Model With Use of a Measuring Technique Based on Multiple Camera Image Data	Satoshi Kondo(Tokyo University of Agriculture and Tech),Yasuhiro AKAGI (Tokyo University of Agriculture and Tech),Katsuhiro KITAJIMA (Tokyo University of Agriculture and Tech)
1A01	Signal Processing (1)	650	Detection of Bearing Fault Using Hybrid Digital Filter	Yimin SHAO (Professor),Yume HU (Professor),Shemin WANG (Student),Xiaojun ZHOU (Student)
1A01	Signal Processing (1)	135	An Efficient DC-Notch FIR Filter Design	K.J. Kim (Hanyang University),S.W. Nam (Hanyang University)
1A01	Signal Processing (1)	411	A New Efficient Matrix Spectral Factorization Algorithm	Lasha Ephremidze(Tokai University)
1A02	OS: Recent Advances in Mechanical Metrology (1)	056	Uncertainty evaluation on the fully-automated sub-multiple calibration in the milligram range	Masaaki Ueki(NMIJ,AIST),Kazunaga Ueda (NMIJ,AIST)
1A02	OS: Recent Advances in Mechanical Metrology (1)	473	High Accurate Creep Compensation Method for Load Cell	Makoto Makabe(Yamato Scale Co., Ltd),Toru Kohashi(Yamato Scale Co., Ltd)
1A02	OS: Recent Advances in Mechanical Metrology (1)	475	Frequency Analysis Method using the Adaptive Algorithm and Application to Dynamic Measurement of Mass and Weight	Yuuki Sasamoto(Osaka Prefectural College of Technology),Toshitaka UMEMOTO (Osaka Prefectural College of Technology),Motoyuki ADACHI (Yamato Scale Co., Ltd),Yoichiro KAGAWA (Yamato Scale Co., Ltd)
1A02	OS: Recent Advances in Mechanical Metrology (1)	010	Improved working efficiency of force standard machine by separating alternative weight stacks	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 Japan (NMIJ), AIST),Yoshiyuki Hikichi
1A03	Identification and Estimation	578	Low-Cost Tachometer based on the Recursive Frequency Estimation	Choi Ga Hyung(Yonsei University),Won Sang Ra (Yonsei Univ),Tae Sung Yoon (Chang Won Univ),Jin Bae Park (Yonsei
1A03	Identification and Estimation	001	Tracking Errors in the Steady State for a 3 Dimensional Tracking Using a Linear Filter	Yoshio Kosuge(Nagasaki Univ.)
1A03	Identification and Estimation	358	Some Extensions of the Monotonic Signal Estimation Method	Osamu Kobayashi (Yamaguchi University),Yuji Wakasa(Yamaguchi University),Kanya Tanaka (Yamaguchi University),Takuya Akashi (Yamaguchi University)
1A03	Identification and Estimation	014	Orientation Estimation by Error-State Extended Kalman Filter in Quaternion Vector Space	Mohammad Ahmadi (first Author),Alireza Khayatian (second author),Paknush Karimaghaee (third author),Farzad Ahmadi (fourth author)
1A03	Identification and Estimation	259	Development of Recognition System for Billet Identification	Changhyun Park(Pohang Univ. of Science and Technology)
1A03	Identification and Estimation	049	A New Approach for Harmonics Current Extraction For Nonlinear Loads	AZIZA ZAKI(Electronics Research Institute, Cairo),Mansour A. Ahmad (Electronics Research Institute),Mahgoub A. Osama (Cairo University),Aboul-zahab Essam (Cairo University)
1A05	Mechanical Systems Control (1)	051	Compound Passive Filter to Minimize Torque Ripples and EMI Noises in PMSM Drives	Kayhan Gulez(Yildiz Technical University)
1A05	Mechanical Systems Control (1)	570	Biped walking robot using a stick on irregular ground	Hideto Shimizu(Tokyo Denki University),Yuki Wakazuki (Tokyo Denki University),Yaodong Pan (Tokyo Denki University),Katsuhisa Furuta (Tokyo Denki University)
1A05	Mechanical Systems Control (1)	165	Damping path design of liquid container transfer including multiple curve sections	Yu Yoshida(Shimane University),Masafumi Hamaguchi (Shimane University),Takao Taniguchi (Shimane University)
1A05	Mechanical Systems Control (1)	236	Remote bilateral control of master-slave manipulators with an environment observer	Yuki Kakizoe (NAIST),Hisakazu Nakamura (NAIST),Hirokazu Nishitani (NAIST)
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1A06	Nonlinear Control (1)	658	Global asymptotic stabilization of nonlinear system with multiple singular points using changeover of control Lyapunov-Morse function	Kazuki Takehara(Hokkaido University),Takayuki Tsuzuki (Shimane Univ.),Yuh Yamashita (Hokkaido Univ.)
1A06	Nonlinear Control (1)	295	Simultaneous Swinging-Up and Stabilization of Double Furuta Pendulums	Noriko Matsuda (Tokyo Denki University),Masaki Izutsu (Tokyo Denki University),Katsuhisa Furuta (Tokyo Denki University)
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1A06	Nonlinear Control (1)	033	Kuramoto Models, Coupled Oscillations and Laser Networks	Bijoy Ghosh(Texas Tech University),Wenxue Wang (Texas Tech University)
1A07	OS: Inverse Problems	085	Sub-surface Inspection by A0-mode Lamb-wave Measurement with Opt-Acoustical Spatio-Gradient Analysis	Kenbu Teramoto(SagaUniversity),Akito Uekihara (Saga University)
1A07	OS: Inverse Problems	168	Measurement of space variant PSF and its application to restoring severely degraded images	Tadashi Ito(Gunma University),Rutsuko Ichikawa (Gunma Univ.),Koishi Ryotaro (Gunma Univ.),Yusaku Fujii (Gunma Univ.),Naoya Ohta (Gunma Univ.),Saburou Saitoh (Gunma Univ.),Tsutomu Matsuura (Gunma Univ.),Takao Yamamoto (Gunma
1A07	OS: Inverse Problems	250	The Method of High-Accuracy 3D Reconstruction for Oblique X-ray CT Images	Satoshi Yoshizawa(Keio University),Toshiyuki Tanaka(Keio University),Kazuo Kikuchi (Comscan Tecno Co., LTD, Japan)
1A07	OS: Inverse Problems	421	On Distance Measurement Using Band-limited Noise	Noboru Nakasako(Kinki University),Tetsuji Uebo (Saika Technological Institute Foundation, Kinki Univ.),Norimitsu Ohmata (Kinki Univ.),Atsushi Mori (Kinki Univ.)
1A07	OS: Inverse Problems	461	Acoustical Blind Source Separation based on Linear Advection Equation	Kenbu Teramoto(SagaUniversity),Tauhidul Islam Khan (Saga University),Sei-ichiro Torisu (Saga University)
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1A08	Intelligent Control (1)	580	Acquisition of Fixed Wide View Field of a Biped Robot during a Walking Motion	Kousuke Yoshimi (Tohoku University),Shun Ushida (Tohoku University),Koichiro Deguchi (Tohoku University)
1A08	Intelligent Control (1)	048	Adaptive Neural Network Based Controller for Direct Torque Control of PMSM with Minimum Torque Ripples	Kayhan Gulez(Yildiz Technical University)
1A08	Intelligent Control (1)	016	Fuzzy MRAC Controller Design for the Vane-Type Air Motor	Yean-Ren Hwang(National Central University)
1A09	OS: Emerging Control Technologies	027	Home Network Development based on CORBA Middleware	Eko Binugroho(Pusan National University),Jae Weon Choi(Pusan National University),Young Bong Seo (School of Mechanical Engineering and RIMT, Pusan National Un)
1A09	OS: Emerging Control Technologies	028	Transmission of Control Signal in Ocean Environment based on Adaptive Time-Reversal Processing	Jea Soo Kim(Korea Maritime University),Jae Weon Choi(Pusan National University),Y.S. Suh (Ulsan University),Y.H. Byun (Korea Maritime University),J.H. Cho (Korea Maritime University), J.H. Lee (Korea Maritime University)
1A09	OS: Emerging Control Technologies	029	Design of Disturbance Observer for Non-minimum Phase Systems Using PID Controllers	Sung-Jong Kim (Department of Electrical Engineering, Myongji University),Young-Ik Son(Myongji University),Hyungbo Shim (ASRI, School of Electrical Engineering and Computer Science),Nam H. Jo (Department of Electrical Engineering, Soongsil
1A09	OS: Emerging Control Technologies	030	A Haptic Interface Using a Force-Feedback Joystick	Ae-Kyoung Ko (Dept. of Electronic and Electrical Eng., Pusan National Univ),Joon-Young Choi(Pusan National University)
1A09	OS: Emerging Control Technologies	031	Hierarchical Position Control of Expedition Robot	Jin-Woo Park (School of Electrical and Electronics Engineering, Chung-Ang),Cheol-Kwan Yang (School of Electrical and Electronics Engineering, Chung-Ang),Duk-Sun Shim(Chung-Ang
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1A10	OS: Frontline of BIX (BioInformation eXchange) Research	648	Image Monitoring of Paddy Field using BIX Image Broker System	Yoshitaka Motonaga (Niigata Univ., Japan),Nobukazu Iguchi (Kinki Univ., Japan),Norikuni Ohtake (Niigata Univ., Japan),Takaharu Kameoka (Mie Univ., Japan)
1A10	OS: Frontline of BIX (BioInformation eXchange) Research	647	Architecture of the Advanced Field Severs	Masayuki Hirafuji(NARO)
1A11	OS: Micrormechatronics for Biomedical Applications	539	Robust Control for Uncertain Systems Preceded by Hysteresis and Disturbances	Xinkai Chen (Shibaura Institute of Technology),Takeshi Hisayama (Shibaura Institute of Technology)
1A11	OS: Micrormechatronics for Biomedical Applications	641	A Locomotive Microrobot for Biomedical Application	Qinxue Pan (Kagawa University),Shuxiang Guo (Kagawa University)
1A11	OS: Micrormechatronics for Biomedical Applications	640	A Precision Parallel Micromechanism for Biomedical Applications	Jian Wang (Kagawa University),Shuxiang Guo (Kagawa University)
1A11	OS: Micrormechatronics for Biomedical Applications	649	A Novel Tool Using SMA Actuator for Cell Puncturing	Changhai Ru (Harbin Engineering University),Shuxiang Guo (Kagawa University),Xihua Wang (Harbin Engineering University)
1A12	Intelligent Systems and Control	602	Acquisition of objects' properties in Intelligent Space	Kouhei Kawaji(The University of Tokyo),Mihoko Niitsuma (Univ. of Tokyo),Akio Kosaka (OLYMPUS),Hideki Hashimoto (Univ. of
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1A14	OS: Observing Human	560	Proposal of a Method of Skin Region Detection by IR of Two Near Wavelengths	Taito Watanabe(Gifu University),Kazuhiko Yamamoto (Department of Information Science, Gifu University),Kunihito Kato (Department of Information Science, Gifu University)
1A14	OS: Observing Human	632	Firefly Capturing Method and Its Application to Performance Analysis of Athlete	Takayuki Fujiwara(Chukyo University)
1A14	OS: Observing Human	653	An attempt of applying Quality Engineering techniques to adjust the S/N ratio for measurement and modeling of a human hand shape using highs speed range finder	Kengo Ohnishi(Okayama Prefectural University),Ryutaro Imakiire (Kyoto Seisakusyo, Co., Ltd)
1A15	OS: Ubiquitous Healthcare	093	Telemonitoring system of TVOS for elderly people living alone	Kazuki Nakajima(University of Toyama),Akinori KAMIYA (University of Toyama),Hiroyuki MATSUI (University of Toyama),Daisuke OIKAWA (Fujimoto Hayasuzu Hospital),Kentaro FUJITA (Fujimoto Hayasuzu Hospital),Yuji HIGASHI (Fujimoto Hayasuzu Hospital),Toshiyo TAMURA (Chiba University),Toshiro FUJIMOTO (Fujimoto Hayasuzu Hospital),Kazuo SASAKI
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1A15	OS: Ubiquitous Healthcare	364	Development of Real-Time Biological Data Collection System using a Cellular Phone	David H. Hareva (Okayama University Graduate School of Health Sciences),Tomoki Kitawaki(Okayama University),Hisao Oka (Okayama University Graduate School of Health Sciences),Takao Nakamura (Okayama University Graduate School of Health Sciences),Hiroki Okada (Okayama University Hospital),Hiromi Kumon (Okayama University Hospital)

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1A16	Robot Control (1)	124	A Branch and Bound Method to the Continuous Time Model Elevator System with Full	Shen Zhen(Tsinghua University),Qianchuan Zhao (Tsinghua
1A16	Robot Control (1)	454	Mobile Robot Navigation by Center Following using Monocular Vision	naoya tada(Tottori University),Takeshi Saitoh(Tottori University),Ryosuke KONISHI(Tottori University)
1A16	Robot Control (1)	455	Voice Controlled Intelligent Wheelchair	Masato Nishimori(Tottori University),Takeshi Saitoh(Tottori University),Ryosuke KONISHI(Tottori University)
1A16	Robot Control (1)	456	Oral Motion Controlled Intelligent Wheelchair	Takeshi Saitoh(Tottori University),Takahashi Noriyuki (Tottori University),Ryosuke KONISHI(Tottori University)
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1A17	Human Interface (1)	394	Target User Localization for a Service Robot Using Wireless LAN	Timoteo, Jr. Idica(University of Tsukuba),Akihisa Ohya (Intelligent Robot Laboratory, University of Tsukuba)
1A17	Human Interface (1)	229	Suitable Checkpoints of Features Surrounding the Eye for Eye Tracking with Template Matching	Shota Miyazaki(Toyama Prefectural University),Hironobu Takano (Toyama Prefectural University),Kiyomi Nakamura (Toyama Prefectural University)
1A17	Human Interface (1)	446	High-reliable Liveness Detection for Iris Recognition	Masashi Kanematsu(Toyama Prefectual University),Hironobu Takano (Toyama Prefectural University),Kiyomi Nakamura (Toyama Prefectural University)
1A17	Human Interface (1)	535	Wearable Handwriting Input Device Using Magnetic Field	Xinying Han(Kanazawa University),Hiroaki Seki (Kanazawa University),Yoshitsugu Kamiya (Kanazawa University),Masatoshi Hikizu (Kanazawa University)
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1B02	OS: Recent Advances in Mechanical Metrology (2)	376	Development of a New Controlled-Clearance Pressure Balance for Hydraulic High-Pressure Standard	Hiroaki Kajikawa(National Metrology Institute of Japan),Tokihiko Kobata(NMIJ/AIST),Akira Ooiwa (National Metrology Institute of
1B02	OS: Recent Advances in Mechanical Metrology (2)	377	Transfer standard for high pressure up to 1 GPa using pressure transducers	Tokihiko Kobata(NMIJ/AIST),Kazunori IDE (NMIJ/AIST)
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1B03	OS: Rangefinders	441	Three Dimensional Recognition of Environments for a Mobile Robot Using Laser Range Finder	Kiyoshi Nishimoto(Hiroshima Institute of Technology),Atsunori Sagami (Sailor Co.Ltd),Kouichi Kaneyama (Interface Co.)
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1B05	Robust Control (1)	530	An iterative method for output feedback mixed H2/H-infinity control problem	Yasushi Kami(Akashi National College of Technology),Eitaku Nobuyama (Kyushu Institute of Technology)
1B05	Robust Control (1)	013	Robust Nonlinear Control based on Back-stepping Method for The Flexible Joint Robot	Jaeyoung Lee (Hanyang Univ),Jong Hyeon Park (Hanyang Univ
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1B07	Adaptive Control (1)	315	Design of Adaptive Control Systems for Unstable Plants in the Presence of Input Saturation	Natsuki Takagi(Kyushu Institute of Technology),Takeshi Nishida (Kyushu Institute of Technology),Toshihiro Kobayashi (Kyushu Institute of Technology)
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3B04	OS: Driver Intent Inference	057	On Driver's Behavior in Car Following	Takahiro Wada(Kagawa University),Shunichi Doi (Kagawa University),Keisuke Imai (Kagawa University),Naohiko Tsuru (DENSO CORPORATION),Kazuyoshi Isaji (DENSO CORPORATION),Hiroshi Kaneko (PARIS MIKI Inc.)
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3B05	Temperature Measurement	436	Fluorescence thermo-sensor using mixture of various phosphors	Tooru Katsumata(Toyo University),S. Harako (Sensor Photonics Research Center),C. Nakayama (Sensor Photonics Research Center),H. Aizawa (Sensor Photonics Research Center),S. Komuro (Sensor Photonics Research Center)
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3B05	Temperature Measurement	544	Thermal Impedance Modeling of a Temperature Dependent Resistance	Heidi Dumele(University of Bundeswehr Munich),Troeltzsch Uwe (University of Bundeswehr Munich, Germany),Horn Michael (University of Bundeswehr Munich, Germany)
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3B07	Sensor and Transducer (2)	513	Design of Micro Flow Sensor with Optimal Detection Spacing	Tae Yong Kim(Dongseo university)
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3B08	OS: Safety and Cyber Security for Industrial Automation (1)	107	The substance of IEC 61511 for process industries and the preparation of its original draft for JIS	Akio Fukada(Toshiba Corporation)
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3B09	OS: Intelligent Sensor System and Its Application	363	Vision-based Force Following Control for Mobile Robots	Hiroyuki Shimizu(Chitose Institute of Sci. and Tech.),Naoki Oda (Chitose Institute of Science and Technology)

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3B09	OS: Intelligent Sensor System and Its Application	047	A study of optimal angle of color vector for optical flow extraction	Masaaki Shibata(Seikei University),Tomoki Yanagisawa (Seikei University)
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