From	To	Room A	Room B	Room C	Room D
8:30		Registration			
9:40	9:50	Opening Address (Room A)			
10:00	11:00	Special Event for 50-th Symposium (Room A)			
11:10	12:30	Lunch			
12:40	13:40	Session: 1A1 Modeling, Filtering and Control of Stochastic Systems and Stochastic Process Chair: Shuichi Ohno (Hiroshima University)	Invited Session:1B1 Spatio-temporal Data Analysis Chair: Takuya Maekawa (Osaka University)	Session: 1C1 Analysis of Stochastic Systems and Stochastic Processes Chair: Ihor Lubashevsky (University of Aizu)	Session: 1D1 Neural Networks and Fuzzy Systems Chair: Kazuhiro Ohkura (Hiroshima University)
13:40	13:50	Coffee Break			
13:50	14:50	Session: 1A2 Modeling, Filtering and Control of Stochastic Systems and Stochastic Process Chair: Kazuyuki Nakamura (Meiji University)	Organized Session: 1B2 Stochastic Robotics Chair: Kiyotsugu Takaba(Ritsumeikan University)	Session: 1C2 Analysis of Stochastic Systems and Stochastic Processes Chair: Masato Ikenoue (National Institute of Technology, Ariake College)	Session: 1D2 Medical and Biomedical Systems Chair:
14:50	15:00	Coffee Break			
15:00	16:20	Session: 1A3 Modeling, Filtering and Control of Stochastic Systems and Stochastic Process Chair: Yoshitaka Matsuda (Saga University)	Organized Session: 1B3 Stochastic Robotics Chair: Satoshi Sato (Osaka University)	Session: 1C3 System Identification and Parameter Estimation Chair: Yukihiro Kubo (Ritsumeikan University)	Session: 1D3 Mathematical Finance Chair: Yoji Morita (Kyoto Gakuen University)
16:20	16:30	Coffee Break			
16:30	17:50	Session: 1A4 Modeling, Filtering and Control of Stochastic Systems and Stochastic Process Chair: Yoshiki Takeuchi (Osaka Kyoiku University)	Session: 1B4 Chaos and Fractal Chair: Kenta Hoshino (Aoyama Gakuin University)	Session: 1C4 Time Series Analysis and Spectral Estimation Chair: Tokuo Fukuda(Otemon Gakuin University)	Session: 1D4 Statistical Methods for GNSS Navigation Chair: Keita Nakamura (The University of Aizu)
17:50	18:00	Coffee Break			
18:00	20:00	or Young AuthorAward, Announcement for Next Symposium Special Joyfull Events supported by MICE (Room A)			

From	To		Room B	Room C	Room D
9:00	10:20		Session: 2B1 Modeling, Filtering and Control of Stochastic Systems and Stochastic Processes Chair: Hiroyuki Kano (Tokyo Denki University)	Session: 2C1 Signal Detection and Statistical Signal Processing Chair:Yukio Fukayama (Hiroshima Institute of Technology)	Session: 2D1 Applications in Engineering related to Stochastic Processes and Stochastic Systems Chair: Katsutoshi Yoshida (Utsunomiya University)
10:20	10:30		Coffee Break		
10:30	11:30		Session: 2B2 Modeling, Filtering and Control of Stochastic Systems and Stochastic Processes Chair: Kunihiko Oura (Kokushikan University)	Session: 2C2 Stochastic Optimization Methods and Evolutionary Methods Chair: Yoshito Hirata (University of Tokyo)	Session: 2D2 Applications in Engineering related to Stochastic Processes and Stochastic Systems Chair: Keitaro Naruse (The University of Aizu)
11:30	11:40		Coffee Break		
11:40	12:40		Invited Session: 2B3 New Breath of Stochastic Control and Events Chair: Yuki Nishimura (Kagoshima Univ.) and Kentaro Ohki (Kyoto Univ.)		Session: 2D3 Applications in Engineering related to Stochastic Processes and Stochastic Systems Chair: Izumi Hanazaki(Tokyo Denki University)
12:40	13:40		Lunch		
13:40	14:40		Invited Session: 2B4 New Breath of Stochastic Control and Events Chair: Yuki Nishimura (Kagoshima Univ.) and Kentaro Ohki (Kyoto Univ.)		Special Session: 2D4 Current Issues of Nonlinear Filtering Chair: Masaya Murata (JAXA)
14:40	14:50		Coffee Break		
14:50	15:00		Closing Ceremony (Room D)		

SSS'18 Tentative Program Ver.1
Venue: RoomA   Hotel Granvia Kyoto

Date			Venues	Events	Authors List
Nov. 1	8:30		RoomA	Registration	
	9:40	9:50	Room A	Opening Ceremony	
	9:50	10:00		Coffee Break	
	10:00	11:00		Special Event for 50-th Symposium	
	11:10	12:30		Lunch	
	12:30	12:40		Coffee Break	
	12:40	13:40	Room A	Session:1A1 Modeling, Filtering and Control of Stochastic Systems and Stochastic Processes	Shuichi Ohno (Hiroshima University)
	12:40	13:00	1A1-1	Bilateral Control System of Nonlinear Flexible Master-Slave Arms with Random Delay Affected by Contact Force with Obstacle	Masaharu Yagi (Kyoto Waterworks Bureau) Genki Idei (Kyoto Institute of Technology) Yuichi Sawada (Kyoto Institute of Technology)
	13:00	13:20	1A1-2	On the Riccati Equation of the Optimal Filter with Disturbance Decoupling Property for Linear Stochastic Systems	Akio Tanikawa (Osaka Institute of Technology)
	13:20	13:40	1A1-3	Stochastic modeling of nonlinear random vibrations using heavy-tailed mixture distribution	Katsutoshi Yoshida (Utsunomiya University) Yoshikazu Yamanaka (Utsunomiya University)
	13:40	13:50		Coffee Break	
	13:50	14:50		Session: 1A2 Modeling, Filtering and Control of Stochastic Systems and Stochastic Processes	Yasumasa Fujisaki (Osaka University)
	13:50	14:10	1A2-1	Bayesian Estimation of Deer Population Dynamics Using Hamiltonian Monte Carlo Algorithm	Tomoro Kimura (Meiji University) Kazuyuki Nakamura (Meiji University)
	14:10	14:30	1A2-2	Nash Tracking Game with Preview by State Feedback for Linear Continuous-Time Systems	Gou Nakura (No affiliation)
	14:30	14:50	1A2-3	Nash Tracking Game with Preview by State Feedback for Linear Continuous-Time Markovian Jump Systems	Gou Nakura (No affiliation)
	14:50	15:00		Coffee Break	
	15:00	16:00		Session: 1A3 Modeling, Filtering and Control of Stochastic Systems and Stochastic Processes	Kazuyuki Nakamura (Meiji University)
	15:00	15:20	1A3-1	Conditions of existence of the full-rank solution of the observation optimization for the Kalman-Bucy filter	Yoshiki Takeuchi (Osaka Kyoiku University)
	15:20	15:40	1A3-2	Design of Observer for Linear Systems with Quantized Output	Shuichi Ohno (Hiroshima University)
	15:40	16:00	1A3-3	SOC Estimation of Lithium-Ion Battery by Extended Kalman Fixed Lag Smoother	Yuma Imoto(Ritsumeikan University) Kiyotsugu Takaba(Ritsumeikan University)
	16:00	16:20		Coffee Break	
	16:20	16:50		Session: 1A4 Modeling, Filtering and Control of Stochastic Systems and Stochastic Processes	Yoshiki Takeuchi (Osaka Kyoiku University)
	16:20	16:40	1A4-1	Modified JIT-Based Solar Irradiance Prediction Methods	Shinya Funabiki (Ritsumeikan University) Koki Takeda (Murata Manufacturing Co.,Ltd) Yuya Eda (Aisin Seiki Co.,Ltd) Kiyotsugu Takaba (Ritsumeikan University)
	16:40	17:00	1A4-2	Distributed Cooperative Full-State Observers for Discrete-time Linear Systems with Missing Data	Toshiharu Hatanaka (Osaka University) Takayuki Wada (Osaka University Yasumasa Fujisaki (Osaka University)
	17:00	17:20	1A4-3	Hybrid Optimal Tracking Control with Preview for Linear Discrete-Time Systems by Simultaneous Optimization Approach of System States and Mode Distributions	Gou Nakura (No affiliation)
	17:20	18:00		Coffee Break	
	18:00	20:00	Room A	Banquet including Events for Young AuthorAward, Announcement for Next Symposium Special Joyfull Events supported by MICE	

Date		Venues	Events	Authors List	
Nov. 1	8:30	RoomA	Registration		
	9:40	9:50 Room A	Opening Ceremony		
	9:50	10:00	Coffee Break		
	10:00	11:00	Special Event for 50-th Symposium		
	11:10	12:30	Lunch		
	12:30	12:40	Coffee Break		
	12:40	13:40 Room B	Invited Session: 1B1 Spatio-temporal Data Analysis	Takuya Maekawa (Osaka University)	
	12:40	13:00 1B1-1	Time-series analysis for animal behavior understanding	Takuya Maekawa (Osaka University)	
	13:00	13:20 1B1-2	Inferring Latent People Flows from Aggregated Data in Real-world Settings	Yusuke Tanaka　(NTT Service Evolution Laboratories)	
	13:20	13:40 1B1-3	Urban demand prediction with autoregressive tensor factorization	Koh Takeuchi　(NTT Communication Science Laboratories)	
	13:40	13:50	Coffee Break		
	13:50	14:50	Organized Session: 1B2 Stochastic Robotics	Kiyotsugu Takaba(Ritsumeikan University)	
	13:50	14:10 1B2-1	Generating Collective Foraging Behavior for Robotic Swarm by Deep Reinforcement Learning	Jin Boyin　(Hiroshima University) Stefano Kristoforus Sebastian　(Hiroshima University) Kazuhiro Ohkura　(Hiroshima University)	
	14:10	14:30 1B2-2	Direction Control of Moving Vehickes using Dual RTK-GNSS and Kalman Filter	Shingo Kaminokado (The University of Aizu) Jun Ogawa (The University of Aizu) (The University of Aizu) Keitaro Naruse (The University of Aizu)	Keita Nakamura
	14:30	14:50 1B2-3	Investigation for Prior Path of Sweeping Robot Considering Environmental Disturbance	Keita Nakamura (The University of Aizu) Jun Ogawa (The University of Aizu) Keitaro Naruse (The University of Aizu)	
	14:50	15:00	Coffee Break		
	15:00	15:40	Organized Session: 1B3 Stochastic Robotics	Satoshi Sato (Osaka University)	
	15:00	15:20 1B3-1	Probabilistic swimming pattern of magnetic small fish in underwater magnetic field	Jun Ogawa (The University of Aizu) Keita Nakamura (The University of Aizu) Keitaro Naruse (The University of Aizu)	
	15:20	15:40 1B3-2	Generating flocking behavior in flying swarm with deep reinforcement learning	Stefano Kristoforus Sebastian　(Hiroshima University) (Hiroshima Universit) Kazuhiro Ohkura (Hiroshima University)	Jin Boyin
	15:40	16:30	Coffee Break		
	16:30	17:30	Session: 1B4 Chaos and Fractal	Kenta Hoshino (Aoyama Gakuin University)	
	16:30	16:50 1B4-1	Experimental Study on Low-Input -Voltage DC-DC Converter	Yoshiki Maeda (Okayama University of Science) Shinichiro Hanahusa (Okayama University of Science) Hirokazu Ohtagaki (Okayama University of Science) Takuj Kousaka(Chukyo University) Hiroyuki Asahara(Okayama University of Science)	
	17:10	17:30 1B4-2	Bifurcation Phenomena and Stochsticity of Motion of Periodically Forced Pendulums	Takahiro Yamaguchi (Okayama University of Science) Hirokazu Ohtagaki (Okayama University of Science)	
	17:30	18:00	Coffee Break		
	18:00	20:00 Room A	Banquet including Events for Young AuthorAward, Announcement for Next Symposium Special Joyfull Events supported by MICE		
Nov. 2	9:00	9:40 Room B	Session: 2B1 Modeling, Filtering and Control of Stochastic Systems and Stochastic Processes	Hiroyuki Kano (Tokyo Denki University)	
	9:00	9:20 2B1-2	Opinion Dynamics via a Gossip Algorithm with Asynchronous Group Interactions	Emerico Aguilar (Osaka University) Yasumasa Fujisaki (Osaka University)	
	9:20	9:40 2B1-3	Stochastic Control of Flexible Horizontal Positioning Systems	Junki YAMAMOTO (Kyoto Institute of Technology) Yuichi SAWADA (Kyoto Institute of Technology)	
	10:00	10:30	Coffee Break		
	10:30	11:10	Session: 2B2 Modeling, Filtering and Control of Stochastic Systems and Stochastic Processes	Kunihiko Oura (Kokushikan University)	
	10:30	10:50 2B2-1	Stability Conditions for Nonlinear Stochastic Control Systems	Hirokazu Ohtagaki (Okayama University of Science)	
	10:50	11:10 2B2-2	Gain Scheduling LEQG Control for 2D Model of Two-Wheeled Inverted Pendulum	Yoshiaki Takano (Kyoto Institute of Technology) Yuichi Sawada (Kyoto Institute of Technology)	
	11:10	11:40	Coffee Break		
	11:40	12:40	Invited Session: 2B3 New Breath of Stochastic Control and Events Yuki Nishimura and Kentaro Ohki	Yuki Nishimura(Kagoshima Univ.) and Kentaro Ohki(Kyoto Univ.)	
	11:40	12:00 2B3-1	Influence of Gausiann white noises on dynamics of nonlinear control inputs	Shuma Kimura (Kagoshima University) Yuki Nishimura (Kagoshima University)	
	12:00	12:20 2B3-2	Quantum smoother for open quantum systems driven by quantum jump-diffusion processes	Kentaro Ohki (Kyoto University)	
	12:20	12:40 2B3-3	On Design of Homogeneous Feedback Controllers for Finite-Time Stabilization of Stochastic Systems	Kenta Hoshino (Aoyama Gakuin University) Yuki Nishimura (Kagoshima University)	
	12:40	13:40	Lunch		
	13:40	14:40	Invited Session: 2B4 New Breath of Stochastic Control and Events Yuki Nishimura and Kentaro Ohki	Yuki Nishimura(Kagoshima Univ.) and Kentaro Ohki(Kyoto Univ.)	
	13:40	14:00 2B4-1	Stability Analysis of Synergistic Spreading Processes	Masaki Ogura (Nara Institute of Science and Technology) Wenjie Mei (Nara Institute of Science and Technology) Kenji Sugimoto (Nara Institute of Science and Technology)	
	14:00	14:20 2B4-2	A study of minimax LEQG control with constant-constrained Renyi divergence	Nobuya Kamo (Kyoto University) Kentaro Ohki (Kyoto University)	
	14:20	14:40 2B4-3	Differentially Private Mechanism for Determining the Equilibrium Price under Strongly Convex Cost Functions and Strongly Concave Utility Functions	Kyohei Yoshida (Osaka University) Takayuki Wada (Osaka University) Yasumasa Fujisaki (Osaka University)	
	14:40	14:50	Coffee Break		
	14:50	15:00 Room D	Closing Ceremony		

Date		Venues	Events	Authors List
Nov. 1	8:30	RoomA	Registration	
	9:40	9:50 Room A	**Opening Ceremony**	
	9:50	10:00	Coffee Break	
	10:00	11:00	**Special Event for 50-th Symposium**	
	11:10	12:30	Lunch	
	12:30	12:40	Coffee Break	
	12:40	13:40 Room C	**Session: 1C1 Analysis of Stochastic Systems and Stochastic Processes**	Ihor Lubashevsky (University of Aizu)
	12:40	13:00 1C1-1	Derivation of the Schroedinger Equation in Quantum Mechanics from Stochastic Control Theory	Akira Ohsumi (Professor Emeritus of Kyoto Institute of Technology)
	13:00	13:20 1C1-2	On the Stability Analysis of the Stochastic Age-structured Infectious Model	Masaaki Ishikawa(Yamaguchi University)
	13:20	13:40 1C1-3	Euler-Maruyama Approximation of SDE in very high dimensions	Jiro Akahori (Ritsumeikan University) Masahiro Kinuya(Ritsumeikan University) Tomooki Yuasa (Ritsumeikan University)
	13:40	13:50	Coffee Break	
	13:50	14:30	**Session: 1C2 Analysis of Stochastic Systems and Stochastic Processes**	Masato Ikenoue (National Institute of Technology, Ariake College)
	13:50	14:10 1C2-1	Is the Classical Theory of Stochastic Processes Complete?	Ihor Lubashevsky (University of Aizu)
	14:10	14:30 1C2-2	A Weighted Averaging Consensus Algorithm and Its Stopping Rule over Noisy Unbalanced Networks	Kenta Hanada (Osaka University) Takayuki Wada (Osaka University) Izumi Masubuchi (Kobe University) Toru Asai (Nagoya University) Yasumasa Fujisaki (Osaka University)
	14:30	15:00	Coffee Break	
	15:00	15:40	**Session: 1C3 System Identification and Parameter Estimation**	Yukihiro Kubo (Ritsumeikan University)
	15:00	15:20 1C3-1	A Joint Input-Output Approach to Closed-loop Identi?cation of Hammerstein-Wiener Systems	Hajime Ase (Mathematical Technology Institute) Tohru Katayama (Kyoto University)
	15:20	15:40 1C3-2	Recursive Algorithm of Bias Compensated Weighted Least Squares Method	Masato Ikenoue (National Institute of Technology, Ariake College) Shunshoku Kanae (Junshin Gakuen University) Kiyoshi Wada (Professor Emeritus of Kyushu University)
	15:40	16:30	Coffee Break	
	16:30	17:00	**Session: 1C4 Time Series Analysis and Spectral Estimation**	Tokuo Fukuda(Otemon Gakuin University)
	16:30	16:50 1C4-1	Efficiency of QQE in Japan——with Negative Interest Rates, YCC, Reserve Deposit, ETF and J-REIT——	Yoji Morita (Kyoto Gakuen University)
	16:50	17:10 1C4-2	Distinguishing Nonlinear Stochasticity from Linear Stochasticity and Nonlinear Determinism	Yoshito Hirata(The University of Tokyo) Masanori Shiro(Advanced Industrial Science and Technology)
	17:10	18:00	Coffee Break	
	18:00	20:00 Room A	**Banquet including Events for Young Author Award, Announcement for Next Symposium and Special Joyfull Events supported by MICE**	
Nov. 2	9:00	10:20 Room C	**Session: 2C1 Signal Detection and Statistical Signal Processing**	Yukio Fukayama (Hiroshima Institute of Technology)
	9:00	9:20 2C1-1	Evaluation System of Groove Feelings of Drum Sounds	Hiroto Kawata (Meiji University) Takeshi Hori (Meiji University) Kazuyuki Nakamura (Meiji University)
	9:20	9:40 2C1-2	Estimation of Parameters of Reflected Discrete Clutter Signals	Katsumi Ohnishi (Bull Run Signal-Image Resarch Lab.)
	9:40	10:00 2C1-3	Separation of Individual Instrumental Tones in Monaural Music Signals Applying a Modified Wiener Filter and the Gabor Wavelet Transform	Yukio Fukayama (Hiroshima Institute of Technology)
	10:00	10:20 2C1-4	Fiber-Optic Distributed Acoustic Sensing Based on Kalman Filter	Ken¥'ichi Nishiguchi (Osaka University)
	10:20	10:30	Coffee Break	
	10:30	11:50	**Session: 2C2 Stochastic Optimization Methods and Evolutionary Methods**	Kazuhiro Ohkura (Hiroshima University)
	10:30	10:50 2C2-1	A Study on Algorithm Solving Stochastic Path Planning Problem in Logistics	Jian Meng (Ritsumeikan University)
	11:50	11:10 2C2-2	Grouping of Genes According to Correlation Coefficients and Grouping-Based Crossover for Adaptive Differential Evolution	Tetsuyuki Takahama (Hiroshima City University) Setsuko Sakai (Hiroshima Shudo University)
	11:10	11:30 2C2-3	Monte Carlo analysis of gathering and scattering behavior generated by gravitational particle swarm algorithm	Yoshikazu Yamanaka (Utsunomiya University) Katsutoshi Yoshida (Utsunomiya University)
	11:50	12:00	Coffee Break	
	12:00	13:00	Lunch	
	14:10	14:20 Room D	**Closing Ceremony**	

Date		Venues RoomA	Events Registration	Authors List
Nov. 1	8:30			
	9:40	9:50 Room A	Opening Ceremony	
	9:50	10:00	Coffee Break	
	10:00	11:00	Special Event for 50-th Symposium	
	11:10	12:30	Lunch	
	12:30	12:40	Coffee Break	
	12:40	13:20 Room D	Session: 1D1 Neural Networks and Fuzzy Systems	Kazuhiro Ohkura (Hiroshima University)
	12:40	13:00 1D1-1	Detection of the primary user's behavior for the intervention of the secondary user using Machine Learning	Octavio Salcedo (Universidad Distrital)
	13:00	13:20 1D1-2	On Two-Dimensional Fuzzy Random Data with Polygon-form Level Sets as Vague Perception of Crisp Random Phenomena	Tokuo Fukuda(Otemon Gakuin University)
	13:20	13:50	Coffee Break	
	13:50	14:10	Session: 1D2 Medical and Biomedical Systems	Kunihiko Oura (Kokushikan University)
	13:50	14:10 1D2-1	Extraction of Eye Movements for a Communication System by EOG Signal Using DC Amplifier	Ryosuke Baba (Saga University) Takenao Sugi (Saga University) Yoshitaka Matsuda (Saga University) Satoru Goto (Saga University) Takao Yamasaki (Kyushu University) Ayame Oishi (Kyushu University) Naruto Egashira (National Institute of Technology, Kurume College)
	14:10	14:30 1D2-2	Causal relationship estimation and evaluation model of metabolic syndrome using medical data	Hiroto Suzuki(Meiji University)
	14:30	15:00	Coffee Break	
	15:00	16:20	Session: 1D3 Mathematical Finance	Yoji Morita (Kyoto Gakuen University)
	15:00	15:20 1D3-1	Approximation of Heston model by a lattice on 3-dimensional Heisenberg group	Yuta Nakamura (Ritsumeikan University) Ryuya Namba (Okayama University)
	15:20	15:40 1D3-2	Polya Urn Binomial Model for Option Price	Takaaki Koso (Ritsumeikan University) Yuki Semba (Ritsumeikan University) Yoshihiro Ryu (Ritsumeikan University)
	15:40	16:00 1D3-3	Default Contagion with Domino Effect as a Point Process	Jiro Akahori (Ritsumeikan University) Hai-Ha Pham (Banking University of Hochiminh city) Tsuyoshi Kinoshita (Ritsumeikan University)
	16:00	16:20 1D3-4	Thermodynamic Approach to Whole-Life Insurance: An Evaluation Method of Surrender Risk	Shuji Tamada (Ritsumeikan University)
	16:20	16:30	Coffee Break	
	16:30	17:10	Session: 1D4 Statistical Methods for GNSS Navigation	Keita Nakamura (The University of Aizu)
	16:30	16:50 1D4-1	Multi GNSS Precise Point Positioning using Adaptive Kalman Filter	Yoshiki Shibayama (Ritsumeikan University) Naoya Kitagawa (Ritsumeikan University) Yukihiro Kubo (Ritsumeikan University) Sueo Sugimoto (Ritsumeikan University)
	16:50	17:10 1D4-2	VPPP Algorithms with Multiple GNSS Antennas by Applying MADOCA Products	Hirokazu Hasegawa (Ritsumeikan University) Dai Mimura (Ritsumeikan University) Yoshiki Shibayama (Ritsumeikan University) Yukihiro Kubo (Ritsumeikan University) Sueo Sugimoto (Ritsumeikan University)
	17:10	17:30 1D4-3	Kalman Filter Argorithms to Provide QZSS L6 Ionospheric Correction for Precise Point Positioning	Koki Asari (SPAC) Masayuki Saito (SPAC) Izumi Mikami (SPAC) Yukihiro Kubo (Ritsumeikan University) Sueo Sugimoto (Ritsumeikan University)
	17:30	17:50 1D4-4	NLOS Satellite Detection Using Fish-Eye Camera and Semantic Segmentation for Improving GNSS Positioning Accuracy in Urban Area	Kenta Horide (Ritsumeikan University) Akihiro Yoshida (Ritsumeikan University) Reo Hirata (Ritsumeikan University) Yukihiro Kubo (Ritsumeikan University) Yoshiharu Koya (Kobe City College of Technology)
	17:50	18:00	Coffee Break	
	18:00	20:00 Room A	Banquet including Events for Young Author Award, Announcement for Next Symposium and Special Joyfull Events supported by MICE	
Nov. 2	9:00	10:00 Room D	Session: 2D1 Applications in Engineering related to Stochastic Processes and Stochastic Systems	Yoshiharu Koya (Kobe City College of Technology)
	9:00	9:20 2D1-1	Reliability Analysis Using Real Options Based on Hierarchical Bayesian Methods	Toru Kaise (University of Hyogo)
	9:20	9:40 2D1-2	Conditional Optimality of Learning Automata with 2-state Bayesian Estimators	Motoshi Hara(National Institute of Technology, Matsue College) Noriyo Kanayama (National Institute of Technology, Matsue College) Watanabe (National Institute of Technology, Matsue College) Satoru Kato (National Institute of Technology, Matsue College) Hiroyuki Kamaya (National Institute of Technology, Hachinohe College)
	9:40	10:00 2D1-3	A Multinomial Logit Model of the Choice of Heating Appliances by Residents	Daisaku Taguchi (Osaka Prefecture University) Yoshihiko Susuki (Osaka Prefecture University) Atsushi Ishigame (Osaka Prefecture University)
	10:00	10:30	Coffee Break	
	10:30	11:50	Session: 2D2 Applications in Engineering related to Stochastic Processes and Stochastic Systems	Keitaro Naruse (The University of Aizu)
	10:30	10:50 2D2-1	Analysis of acceleration signal during movement of Walking Training Apparatus for Crutch-Walk	Toshimitsu Iioka(Tokyo Denki University) Jun Inoue(Tokyo Denki University) Izumi Hanezaki(Tokyo Denki University)
	11:50	11:10 2D2-2	Pronunciation Instructions based on Shape of Tongue and Lips estimated by Formants of Speech Signal	Kyoko Yoshiwara Izumi Hanezaki(Tokyo Denki University)Kyoko Yoshiwara Izumi Hanezaki(Tokyo Denki University)
	11:10	11:30 2D2-3	Constructing Compact Cubic B-spline Curves Using DP-based Dominant Control Point Selection	Hiroyuki Fujioka (Fukuoka Institute of Technology) Raohanart Soontornvorn (Fukuoka Institute of Technology) Hiroyuki Kano (Tokyo Denki University)Hiroyuki Fujioka (Fukuoka Institute of Technology) Raohanart Soontornvorn (Fukuoka Institute of Technology) Hiroyuki Kano (Tokyo Denki University)
	11:30	11:40	Coffee Break	
	11:40	12:20	Session: 2D3 Applications in Engineering related to Stochastic Processes and Stochastic Systems	Izumi Hanezaki(Tokyo Denki University)
	11:40	12:00 2D3-1	Kalman Filter Based Control of A Rehabilitation Robot for Assisting Knee Torque of Individuals after Stroke	Yuichi Sawada (Kyoto Institute of Technology) Yoshiyuki Higashi (Kyoto Institute of Technology) Koji Ohata (Kyoto University) Tadao Tsuboyama (Bukkyo University) Shiori Kawasaki (Kyoto University) Rei Takahashi (SUNCALL CORPORATION) Yasushi Fujita (SUNCALL CORPORATION) Yukinobu Makihara (Dai Nippon Printing Co., Ltd.) Masaru Hoshino (Dai Nippon Printing Co., Ltd.)
	12:00	12:20 2D3-2	Evaluation of Brain Activity caused by Attentional Control Task Focused on Hemodynamics and Event Rerated Potentials	Kanako Mikami (Kokushikan University) Kunihiko Oura (Kokushikan University)
	12:40	13:40	Lunch	
	13:40	14:40	Special Session: 2D4 Current Issues of Nonlinear Filtering Chair: Masaya Murata (JAXA)	Masaya Murata (JAXA)
	13:40	14:00 2D4-1	Spacecraft attitude estimation based on stochastic kinematics modeling on SO(3)	Satoshi Satoh (Osaka University) Katsuhiko Yamada (Osaka University)
	14:00	14:20 2D4-2	Simultaneous state and parameter estimation based on AUMV estimator and IBR-KF	Shinji Ishihara (Hitachi, Ltd.)
	14:20	14:40 2D4-3	Approximated Particle Flow for Continuous Filter, Predictor, and Smoother	Masaya Murata
	14:40	14:50	Coffee Break	
	14:50	15:00	Closing Ceremony	