



2019 12th Asian Control Conference (ASCC)

June 9-12, 2019, Kitakyushu, Fukuoka, Japan

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Last updated on May 29, 2019. This conference program is tentative and subject to change

Program at a Glance

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ASCC 2019 Technical Program Monday June 10, 2019						
Track 1	Track 2	Track 3	Track 4	Track 5	Track 6	Track 7
09:00-10:00 Main Hall Plenary Session MoPPI						
<i>From Stabilizing to Economic Model Predictive Control: A Paradigm Shift towards Increased Control Performance, Prof. Frank Allgower</i>						
10:20-12:20 Conference Room 11 Invited Session MoA1 <i>Modeling, Control and Economic Methods for Distributed Energy Management</i>	10:20-12:20 International Conference Room Regular Session MoA2 <i>Robotics and Motion Control (1)</i>	10:20-12:20 Conference Room 21CD Regular Session MoA3 <i>Biotechnology</i>	10:20-12:20 Conference Room 21AB Regular Session MoA4 <i>Autonomous Systems</i>	10:20-12:20 Conference Room 22 Regular Session MoA5 <i>Control Applications (1)</i>	10:20-12:20 Conference Room 32 Regular Session MoA6 <i>Linear Systems</i>	10:20-12:20 Conference Room 33 Regular Session MoA7 <i>Filtering</i>
14:00-16:00 Conference Room 11 Invited Session MoB1 <i>Process Optimization and Control for Networked Systems (1)</i>	14:00-16:00 International Conference Room Regular Session MoB2 <i>Robotics and Motion Control (2)</i>	14:00-16:00 Conference Room 21CD Regular Session MoB3 <i>Robust Control (1)</i>	14:00-16:00 Conference Room 21AB Regular Session MoB4 <i>Automotive Systems (1)</i>	14:00-16:00 Conference Room 22 Regular Session MoB5 <i>Control Applications (2)</i>	14:00-16:00 Conference Room 32 Regular Session MoB6 <i>Optimal Control and Optimization (1)</i>	14:00-16:00 Conference Room 33 Regular Session MoB7 <i>Adaptive Control and Tuning (1)</i>
16:20-18:20 Conference Room 11 Invited Session MoC1 <i>Process Optimization and Control for Networked Systems (2)</i>	16:20-18:20 International Conference Room Regular Session MoC2 <i>Robotics and Motion Control (3)</i>	16:20-18:20 Conference Room 21CD Regular Session MoC3 <i>Robust Control (2)</i>	16:20-18:20 Conference Room 21AB Regular Session MoC4 <i>Automotive Systems (2)</i>	16:20-18:20 Conference Room 22 Regular Session MoC5 <i>Control Applications (3)</i>	16:20-18:20 Conference Room 32 Regular Session MoC6 <i>Optimal Control and Optimization (2)</i>	16:20-18:20 Conference Room 33 Regular Session MoC7 <i>Adaptive Control and Tuning (2)</i>

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ASCC 2019 Technical Program Tuesday June 11, 2019						
Track 1	Track 2	Track 3	Track 4	Track 5	Track 6	Track 7
09:00-10:00 Main Hall Plenary Session TuPPI						
<i>Brain-Machine Interfaces: A Role of Control Engineers, Prof. Keum-Shik Hong</i>						
10:20-12:20 Conference Room 11 Invited Session TuA1 <i>Case Studies on Motion and Vibration Control</i>	10:20-12:20 International Conference Room Regular Session TuA2 <i>Complex Systems and Networks</i>	10:20-12:20 Conference Room 21CD Regular Session TuA3 <i>System Theory (1)</i>	10:20-12:20 Conference Room 21AB Regular Session TuA4 <i>Noise and Vibration Control</i>	10:20-12:20 Conference Room 22 Regular Session TuA5 <i>Nonlinear Control (1)</i>	10:20-12:20 Conference Room 32 Regular Session TuA6 <i>Process and Chemical Systems</i>	10:20-12:20 Conference Room 33 Regular Session TuA7 <i>Sensors and Sensor Fusion</i>
14:00-16:00 Conference Room 11 Invited Session TuB1 <i>Advanced Control Methods and Applications</i>	14:00-16:00 International Conference Room Regular Session TuB2 <i>Cooperative Control (1)</i>	14:00-16:00 Conference Room 21CD Regular Session TuB3 <i>System Theory (2)</i>	14:00-16:00 Conference Room 21AB Regular Session TuB4 <i>Mechatronics (1)</i>	14:00-16:00 Conference Room 22 Regular Session TuB5 <i>Nonlinear Control (2)</i>	14:00-16:00 Conference Room 32 Regular Session TuB6 <i>Predictive Control (1)</i>	14:00-16:00 Conference Room 33 Regular Session TuB7 <i>Identification and Estimation (1)</i>
16:20-18:20 Conference Room 11 Invited Session TuC1 <i>Novel Controllers for Mechanical Systems</i>	16:20-18:20 International Conference Room Regular Session TuC2 <i>Cooperative Control (2)</i>	16:20-18:20 Conference Room 21CD Regular Session TuC3 <i>System Theory (3)</i>	16:20-18:20 Conference Room 21AB Regular Session TuC4 <i>Mechatronics (2)</i>	16:20-18:20 Conference Room 22 Regular Session TuC5 <i>Nonlinear Control (3)</i>	16:20-18:20 Conference Room 32 Regular Session TuC6 <i>Predictive Control (2)</i>	16:20-18:20 Conference Room 33 Regular Session TuC7 <i>Identification and Estimation (2)</i>

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ASCC 2019 Technical Program Wednesday June 12, 2019						
Track 1	Track 2	Track 3	Track 4	Track 5	Track 6	Track 7
09:00-10:00 Main Hall Plenary Session WePPI						
<i>Control of Large-Scale Network Systems for Societal System Design, Prof. Jun-ichi Imura</i>						
10:20-12:20 Conference Room 11 Invited Session WeA1 <i>Advance of FDI and FTC with Applications</i>	10:20-12:20 International Conference Room Invited Session WeA2 <i>Recent Advances on Control Technologies towards Realizing Society 5.0</i>	10:20-12:20 Conference Room 21CD Regular Session WeA3 <i>Artificial Intelligence</i>	10:20-12:20 Conference Room 21AB Regular Session WeA4 <i>Variable-Structure/Sliding- Mode Control (1)</i>	10:20-12:20 Conference Room 22 Regular Session WeA5 <i>Aerospace Engineering</i>	10:20-12:20 Conference Room 32 Regular Session WeA6 <i>Fault Detection (1)</i>	10:20-12:20 Conference Room 33 Regular Session WeA7 <i>Pattern Recognition</i>
14:00-16:00 Conference Room 11 Invited Session WeB1 <i>Some Developments on Hybrid Systems</i>	14:00-16:00 International Conference Room WeB2	14:00-16:00 Conference Room 21CD Regular Session WeB3 <i>Intelligent Control</i>	14:00-16:00 Conference Room 21AB Regular Session WeB4 <i>Variable-Structure/Sliding- Mode Control (2)</i>	14:00-16:00 Conference Room 22 Regular Session WeB5 <i>Control Applications for Aerospace</i>	14:00-16:00 Conference Room 32 Regular Session WeB6 <i>Fault Detection (2)</i>	14:00-16:00 Conference Room 33 WeB7



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Technical Program for Monday June 10, 2019

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MoPPI	Main Hall
From Stabilizing to Economic Model Predictive Control: A Paradigm Shift towards Increased Control Performance, Prof. Frank Allgower	Plenary Session
Chair: Mizuno, Takeshi	Saitama University
MoA1	Conference Room 11
Modeling, Control and Economical Methods for Distributed Energy Management	Invited Session
Chair: Hatanaka, Takeshi	Osaka University
Co-Chair: Wasa, Yasuaki	Waseda University
Organizer: Hatanaka, Takeshi	Osaka University
Organizer: Wasa, Yasuaki	Waseda University
Organizer: Namerikawa, Toru	Keio University
10:20-10:40, Paper MoA1.1	
A Design Method for Plug-And-Play Modules of Photovoltaic Generators (I)	
Qu, Anqi	Tokyo Institute of Technology
sadamoto, Tomonori	The University of Electro-Communications
Imura, Jun-ichi	Tokyo Institute of Technology
10:40-11:00, Paper MoA1.2	
Remodeling of RC Circuit Building Thermodynamics Model with Solar Radiation Based on a Regularization-Like Technique (I)	
Hatanaka, Takeshi	Osaka University
Tomohiro, Ikawa	Tokyo Institute of Technology
Okamoto, Daichi	Tokyo Institute of Technology
11:00-11:20, Paper MoA1.3	
Load Frequency Control in Connected Power System Including Distributed Energy Resources Using Iterative Gradient Method (I)	
Sekine, Tetsuya	Keio University
Namerikawa, Toru	Keio University
11:20-11:40, Paper MoA1.4	
A New Distributed Constrained Multi-Agent Optimization Protocol with Convergence Proof Via Exactness of Penalized Objective Function (I)	
Masubuchi, Izumi	Kobe University
Wada, Takayuki	Osaka University
Fujisaki, Yasumasa	Osaka Univ
Dabbene, Fabrizio	Politecnico Di Torino
11:40-12:00, Paper MoA1.5	
Passivity-Short-Based Stability Analysis on Electricity Market Trading with Communication Delay (I)	
Muto, Keita	Keio University
Namerikawa, Toru	Keio University
12:00-12:20, Paper MoA1.6	
Optimal Dynamic Incentive and Control Contract among Principal and Agents with Moral Hazard and Long-Term Average Reward (I)	
Wasa, Yasuaki	Waseda University
Uchida, Kenko	Waseda University
MoA2	International Conference Room
Robotics and Motion Control (1)	Regular Session
Chair: Zhao, Hui	Harbin Institute of Technology
Co-Chair: Nabae, Hiroyuki	Tokyo Institute of Technology
10:20-10:40, Paper MoA2.1	

Towards Novel Micromanipulations of Submillimeter-Scale Particles in a Laterally-Oscillated Rectangular Container

[Hara, Masayuki](#) Saitama University
[Funabashi, Takahiro](#) Saitama University
[Nabae, Hiroyuki](#) Tokyo Institute of Technology
[Miki, Masahito](#) Saitama University

10:40-11:00, Paper MoA2.2

Trajectory Tracking Control of a Rolling Disk on a Smooth Manifold

[van Steen, Jari](#) Eindhoven University of Technology
[Reyhanoglu, Mahmut](#) University of North Carolina at Asheville

11:00-11:20, Paper MoA2.3

Distributed Path Planning of Swarm Mobile Robots

[Lee, Ya-Ting](#) Dept. of Beauty Science, National Taichung University of Science
[Zeng, Song-Fung](#) Dept. of Electrical Engineering, Chung-Yuan Christian University
[Chiu, Chian-Song](#) Chung-Yuan Christian University

11:20-11:40, Paper MoA2.4

Steady Speed Flywheel Drive System Based on Phase-Locked Loop

[Ma, Enyu](#) Harbin Institute of Technology
[Zhao, Hui](#) HIT
[Zhang, Guojiang](#) Harbin Institute of Technology
[Huo, Xin](#) Harbin Institute of Technology
[Yao, Yu](#) Harbin Institute of Technology

11:40-12:00, Paper MoA2.5

Geometric Modeling and Attitude Stabilization of Quadcopters

[Sharma, Manmohan](#) Indian Institute of Technology Guwahati
[Kar, Indrani](#) IIT Guwahati

MoA3

Conference Room 21CD

Biotechnology

Regular Session

Chair: [Chang, Peter I-Tsyuen](#) National Taiwan University of Science and Technology
Co-Chair: [Nakamura, Mitsuteru](#) The University of Tokyo

10:20-10:40, Paper MoA3.1

Algorithms for Finding Attractors of Generalized Asynchronous Random Boolean Networks

[Trinh, Van Giang](#) JAIST
[Hiraishi, Kunihiko](#) JAIST

10:40-11:00, Paper MoA3.2

Transfer and Incremental Learning Method for Blood Glucose Prediction of New Subjects with Type 1 Diabetes

[Luo, Shengwei](#) Zhejiang University
[Zhao, Chunhui](#) Zhejiang University

11:00-11:20, Paper MoA3.3

Automatic DNA Geometric Analysis from Atomic Force Microscopy Images

[Chang, Peter I-Tsyuen](#) National Taiwan University of Science and Technology
[Yu, Yi-Jui](#) National Taiwan University of Science and Technology

11:20-11:40, Paper MoA3.4

Control Strategy for Patient-Instrument Stabilization for an Office-Based Ear Surgical Procedure

[Tan, Kok Kiong](#) National Univ. of Singapore
[Tan, Jian Han](#) Nanyang Junior College
[Tan, Yi Xian](#) National Univ. of Singapore
[Chee, Rhonda](#) National Univ. of Singapore
[Lim, Lynne](#) Mount Elizabeth Hospital

11:40-12:00, Paper MoA3.5

Evaluation of Smart Devices in IoT Segment by Using Medical Healthcare Technology "MIMOSYS"

[Uraguchi, Tomotaka](#) Tokyo Institute of Technology
[Omiya, Yasuhiro](#) PST Inc
[Takano, Takeshi](#) PST Inc
[Amemiya, Yuuichi](#) PST Inc
[Nakamura, Mitsuteru](#) The University of Tokyo
[Deguchi, Hiroshi](#) Tokyo Institute of Technology
[Tokuno, Shinichi](#) University of Tokyo
[Takayama, Eiji](#) Asahi University

12:00-12:20, Paper MoA3.6

A Structural Output Controllability Approach to Drug Efficacy Prediction

[Setyawan, Taufik Banu](#) Institut Teknologi Bandung
[Oressa, Erhan](#) Institut Teknologi Bandung
[Tamba, Tua Agustinus](#) Parahyangan Catholic University
[Nazaruddin, Yul Yunazwin](#) Institut Teknologi Bandung
[Suprijanto, Suprijanto](#) Institut Teknologi Bandung

MoA4	Conference Room 21AB
Autonomous Systems	Regular Session
Chair: Nakano, Kimihiko	The University of Tokyo
Co-Chair: Zamani, Mohammad	DSTG
10:20-10:40, Paper MoA4.1	
<i>Simple Adaptive Control for a Diesel Engine Air Path System</i>	
Eguchi, Makoto	Keio University
ZHANG, XINYU	KEIO UNIVERSITY
Sakai, Daichi	Keio University
Ohmori, Hiromitsu	Keio University
Hayashi, Tomofumi	Utsunomiya University
Hirata, Mitsuo	Utsunomiya University
Takahashi, Motoki	The University of Tokyo
Yamasaki, Yudai	The University of Tokyo
Kaneko, Shigehiko	University of Tokyo
10:40-11:00, Paper MoA4.2	
<i>Autonomous Pest Bird Detering for Agricultural Crops Using Teams of Unmanned Aerial Vehicles</i>	
Wang, Zihao	The University of Sydney
Wong, KC	The University of Sydney
11:00-11:20, Paper MoA4.3	
<i>Robust H Infinity Control for Hovering of a Quadrotor with Slung Load</i>	
Yuan, Xiaozhuoer	Beihang University
Ren, Xingyu	Beihang University
Zhu, Bing	Beihang University
Zheng, Zewei	Beihang University
Zuo, Zongyu	Beihang University
11:20-11:40, Paper MoA4.4	
<i>A Speed Control Strategy for Automated Buses to Cross Intersections While Considering the Motion of Oncoming Vehicles</i>	
Yang, Bo	The University of Tokyo
Xiong, Jianhui	Huawei Technologies Co., Ltd
Kaizuka, Tsutomu	The University of Tokyo
Nakano, Kimihiko	The University of Tokyo
11:40-12:00, Paper MoA4.5	
<i>A Hybrid Multi-Modal Approach for Flocking</i>	
Lodge, Riley Thomas	Defence Science and Technology Group
Zamani, Mohammad	DSTG
Sims, Brendan	Defence Science and Technology Group
Marsh, Luke	Defence Science and Technology Group
Hunjet, Robert	Defence Science and Technology Group
MoA5	Conference Room 22
Control Applications (1)	Regular Session
Chair: Kawashima, Takeshi	Kanagawa Institute of Technology
Co-Chair: Baumann, Michael Heinrich	University of Bayreuth
10:20-10:40, Paper MoA5.1	
<i>Non-Task-Oriented Dialogue System Specialized in Distinguishing Multiple Meaningful Words</i>	
Kuwata, Masaki	National Institute of Technology, Kumamoto College
Shibasato, Koki	National Institute of Technology, Kumamoto College
10:40-11:00, Paper MoA5.2	
<i>An On-Line Variable Speed Scanning Method with Machine Learning Based Feedforward Control for Atomic Force Microscopy</i>	
Liu, Yi-Lin	National Taiwan University
Huang, Ching - Chi	National Taiwan University
Chen, Huang Chih	National Taiwan University
Fu, Li-Chen	National Taiwan University
11:00-11:20, Paper MoA5.3	
<i>Semi-Active Acceleration Control System for In-Car Crib with Joint Application of Regular and Inverted Pendulum Mechanisms</i>	
Kawashima, Takeshi	Kanagawa Institute of Technology
11:20-11:40, Paper MoA5.4	
<i>Positive Expected Feedback Trading Gain for All Essentially Linearly Representable Prices</i>	
Baumann, Michael Heinrich	University of Bayreuth
Gruene, Lars	University of Bayreuth
11:40-12:00, Paper MoA5.5	
<i>Distributed Adaptive Tracking Control for a Class of High-Order Uncertain Nonlinear Multi-Agent Systems Via Neural Approximation Approach</i>	

Shang, Yun	Qingdao University
Chen, Bing	Qingdao University
Lin, Chong	Qingdao University
Liu, Zhiliang	Qingdao University

MoA6	Conference Room 32
Linear Systems	Regular Session

Chair: [Chesi, Graziano](#) The University of Hong Kong
 Co-Chair: [Asai, Toru](#) Nagoya University

10:20-10:40, Paper MoA6.1

[A Novel LMI Condition for Stability of 2D Mixed Continuous-Discrete-Time Systems Via Complex LFR and Lyapunov Functions](#)
[Chesi, Graziano](#) The University of Hong Kong

10:40-11:00, Paper MoA6.2

[Minimal Order Observer Based H-Infinity Controller Design Based on Overbounding Approximation Method](#)
[KAYO, Soji](#) Kyushu Institute of Technology
[Nohmi, Akiko](#) Kyushu Institute of Technology
[Sebe, Noboru](#) Kyushu Inst. of Tech
[Sato, Masayuki](#) Japan Aerospace Exploration Agency

11:00-11:20, Paper MoA6.3

[Dissipative Approach in Control Design for Linear Discrete-Time Positive Systems](#)
[Krokavec, Dusan](#) Technical University of Kosice
[Filasova, Anna](#) Technical University of Kosice

11:20-11:40, Paper MoA6.4

[Exponential Stability Analysis and Controller Design for LTI Positive System with Controller Failure](#)
[Lian, Jie](#) Dalian University of Technology
[Wang, Renke](#) Dalian University of Technology
[Wu, Feiyue](#) Dalian University of Technology

11:40-12:00, Paper MoA6.5

[MIMO Model Matching for Reference Models with Time-Varying Parameter](#)
[Sun, Hongyuan](#) Nagoya University
[Asai, Toru](#) Nagoya University
[Arizumi, Ryo](#) Nagoya University
[Azuma, Shun-ichi](#) Nagoya University

MoA7	Conference Room 33
Filtering	Regular Session

Chair: [Luan, Xiaoli](#) Jiangnan University
 Co-Chair: [Li, Wenling](#) Beihang University

10:20-10:40, Paper MoA7.1

[Dissipative Filter Design for Interval Type-2 Fuzzy Singular Systems with Stochastic Perturbation](#)
[Li, Jiangrong](#) College of Mathematics and Computer Science, Yanan University
[Feng, Zhiqiang](#) Harbin Engineering University
[SHI, JUAN](#) Victoria University

10:40-11:00, Paper MoA7.2

[H-Infinity Filtering for Uncertain Delta Operator Systems with Random Time-Delays and Limited Communication](#)
[Ding, Wanwan](#) Zhengzhou University
[Zhang, Duanjin](#) Zhengzhou University

11:00-11:20, Paper MoA7.3

[Diffusion Kalman Filter by Using Maximum Correntropy Criterion](#)
[Li, Wenling](#) Beihang University
[xiong, kai](#) Beihang University
[Liu, Yang](#) Beihang University (BUAA)

11:20-11:40, Paper MoA7.4

[High-Order Moment Bayesian State Estimation of Nonlinear Markov Jump System](#)
[zhou, ziheng](#) Jiangnan University
[Luan, Xiaoli](#) Jiangnan University
[Gao, Meifeng](#) Jiangnan University
[Liu, Fei](#) Jiangnan University

11:40-12:00, Paper MoA7.5

[Neural Velocity Observer Trained with Experimental Data Supporting Stabilization of Magnetically Levitating Sphere](#)
[Pilat, Adam](#) AGH University of Science and Technology
[Żrebiec, Jakub](#) AGH University of Science and Technology
[Sikora, Bartłomiej](#) AGH University of Science and Technology

12:00-12:20, Paper MoA7.6

Bias-Compensated Normalized Least Mean Fourth Algorithm for Adaptive Filtering of Impulsive Measurement Noises and Noisy Inputs

[Lee, Minho](#)

Pohang University of Science and Technology

[Park, Taesu](#)

Pohang University of Science and Technology

[Park, PooGyeon](#)

Pohang Univ. of Sci. & Tech

MoB1

Conference Room 11

Process Optimization and Control for Networked Systems (1)

Invited Session

Chair: [Li, Shaoyuan](#)

Shanghai Jiao Tong University

Co-Chair: [Wang, Yalin](#)

Central South University

Organizer: [Li, Shaoyuan](#)

Shanghai Jiao Tong University

14:00-14:20, Paper MoB1.1

Data-Driven Dynamic Modeling of the Acetylene Hydrogenation Process Based on Nonlinear Slow Feature Analysis (I)

[Guo, Jingjing](#)

East China University of Science and Technology

[Du, Weni](#)

East China University of Science and Technology

[Ye, Zhencheng](#)

East China University of Science and Technology

14:20-14:40, Paper MoB1.2

A PSO-LP Cooperative Algorithm for Mixed Integer Nonlinear Programming (I)

[Yang, Ye](#)

Zhejiang University

[Han, Jinhou](#)

Zhejiang University

[Chen, Chen](#)

Zhejiang University

[Xu, Jiarong](#)

Zhejiang University

[Liao, Zuwei](#)

Zhejiang University

[LIU, Xinggao](#)

Zhejiang University

[Chen, Jinshui](#)

Zhejiang University

[Lu, Jiangang](#)

Zhejiang University

14:40-15:00, Paper MoB1.3

A Correction Method for the Proportion of Key Components in Basic HYSYS Library Based on an Improved Squirrel Search Algorithm (I)

[Wang, Yalin](#)

Central South University

[Shang, Dandan](#)

Central South University

[Yuan, Xiaofeng](#)

Central South University

15:00-15:20, Paper MoB1.4

Fuzzy C-Means Cluster Based on Local Weighted Principal Component Regression for Soft Sensor of an Industrial Hydrocracking Process (I)

[Yuan, Xiaofeng](#)

Central South University

[Zhou, Jiao](#)

Central South University

[Wang, Yalin](#)

Central South University

[Yang, Chunhua](#)

Central South University

15:20-15:40, Paper MoB1.5

Improved Approaches for Verifying I-Detectability of Discrete-Event Systems (I)

[Liu, Zhaocong](#)

Shanghai Jiao Tong University

[Yin, Xiang](#)

Shanghai Jiao Tong University

[Li, Shaoyuan](#)

Shanghai Jiao Tong University

15:40-16:00, Paper MoB1.6

Parameter Optimization of Hydrocracker Using Multi-Block Kriging Metamodeling within Discontinuous Operating Space (I)

[Xue, Yongfei](#)

Central South University

[Wang, Yalin](#)

Central South University

[Shang, Dandan](#)

Central South University

MoB2

International Conference Room

Robotics and Motion Control (2)

Regular Session

Chair: [Ismail, Zool](#)

Malaysia-Japan International Institute of Technology

Co-Chair: [Ogai, Harutoshi](#)

Waseda University

14:00-14:20, Paper MoB2.1

Broadcast and Event Triggered Distributed Consensus Controller for Multi Agent Motion Coordination Systems

[Sariff, Nohaidda](#)

University Teknologi Malaysia

[Ismail, Zool](#)

Malaysia-Japan International Institute of Technology

14:20-14:40, Paper MoB2.2

A Complementary Estimation Scheme of Angular Accelerations for Robot Manipulators under Slow Sampling Rates

[lee, sangdeok](#)

Chungnam National University

[Jung, Seul](#)

Chungnam National University

14:40-15:00, Paper MoB2.3

Design and Development of a New Active Slider Crank Mechanism Based Step Climbing Wheelchair

[BAISHYA, NAYAN JYOTI](#)

[Ogai, Harutoshi](#)

[Bhattacharya, Bishakh](#)

Graduate School of Information, Production and Systems, WASEDA U

Waseda University

Professor

15:00-15:20, Paper MoB2.4

[Data-Driven Formation Control for a Class of Unknown Heterogeneous Discrete-Time MIMO Multi-Agent System with Switching Topology](#)

[Xiong, Shuangshuang](#)

Advanced Control Systems Laboratory

[Hou, Zhongsheng](#)

Beijing Jiaotong University

[Yu, Xian](#)

Beijing Jiaotong University

15:20-15:40, Paper MoB2.5

[Nonlinear Model Predictive Control of a Fully-Actuated UAV on SE\(3\) Using Acceleration Characteristics of the Structure](#)

[Tadokoro, Yuichi](#)

Tokyo Institute of Technology

[Ibuki, Tatsuya](#)

Tokyo Institute of Technology

[Sampei, Mitsui](#)

Tokyo Inst. of Tech

MoB3

Conference Room 21CD

Robust Control (1)

Regular Session

Chair: [Wada, Takayuki](#)

Osaka University

Co-Chair: [Petersen, Ian R.](#)

Australian National University

14:00-14:20, Paper MoB3.1

[Model-Free Vibration Control to Enable Vibration Suppression of Arbitrary Structures](#)

[Yonezawa, Heisei](#)

Hokkaido University

[Kajiwara, Itsuro](#)

Hokkaido University

[Yonezawa, Ansei](#)

Hokkaido University

14:20-14:40, Paper MoB3.2

[Output Feedback Fault-Tolerant Control for Lead-Wing Close Formation Flight](#)

[Liu, Chun](#)

Nanjing University of Aeronautics and Astronautics

[Jiang, Bin](#)

NUAA

[Zhang, Ke](#)

Nanjing University of Aeronautics and Astronautics

14:40-15:00, Paper MoB3.3

[Mixed H2/H-Infinity Balanced Truncations for Discrete Time Linear Systems](#)

[Sakai, Yuichiro, Yuichiro](#)

Osaka University

[Wada, Takayuki](#)

Osaka University

[Fujisaki, Yasumasa](#)

Osaka Univ

15:00-15:20, Paper MoB3.4

[Robust TS-Fuzzy Observer-Based Control for Quadruple-Tank System](#)

[BUI TUAN, Viet Long](#)

Universite Picardie Jules Verne

[El hajjaji, ahmed](#)

University of Picardie Jules Verne

[Naami, Ghali](#)

Université Sidi Mohamed Ben Abdellah

15:20-15:40, Paper MoB3.5

[Output Feedback Controller Synthesis for Negative Imaginary Systems](#)

[Dannatt, James](#)

Australian National University

[Petersen, Ian R.](#)

Australian National University

MoB4

Conference Room 21AB

Automotive Systems (1)

Regular Session

Chair: [Yokoyama, Makoto](#)

Niigata University

Co-Chair: [Rechkemmer, Sabrina Kathrin](#)

University of Stuttgart

14:00-14:20, Paper MoB4.1

[Towards a Shanghai Electric Two-Wheeler Cycle \(SE2WC\)](#)

[Rechkemmer, Sabrina Kathrin](#)

University of Stuttgart

[Zang, Xiaoyun](#)

Bosch (China) Investment Ltd

[Zhang, Weimin](#)

Tongji University Shanghai

[Sawodny, Oliver](#)

University of Stuttgart

14:20-14:40, Paper MoB4.2

[Vehicular Vertical Tire Forces Estimation Using Unscented Kalman Filter](#)

[Kim, Suk Won](#)

Hanyang University

[Jeong, YongWoo](#)

Hanyang University

[Lee, Seung Hee](#)

Hanyang University

[Chung, Chung Choo](#)

Hanyang University

14:40-15:00, Paper MoB4.3

[Dynamic Neural Network-Based Feedback Linearization Control of Antilock Braking Systems Incorporated with Active Suspensions](#)

[Pedro, Jimoh Olarewaju](#)

University of the Witwatersrand

[Ranchod, Nikhil](#)

University of the Witwatersrand

15:00-15:20, Paper MoB4.4

[Hinf Control of Semi-Active MR Damper Suspensions](#)

[Yu, Shuyou](#) Jilin University

15:20-15:40, Paper MoB4.5

[Adaptive Algorithm of Active Sound Design for the Engine Noise](#)

[Lee, Hakjun](#)

KAIST

MoB5

Conference Room 22

Control Applications (2)

Regular Session

Chair: [Shi, Jing](#)

Northwestern Polytechnical University

Co-Chair: [Matsuda, Yoshitaka](#)

Saga University

14:00-14:20, Paper MoB5.1

[Positioning and Orientation by the Integrated System for Underwater Acoustic Arrays](#)

[Shi, Jing](#)

Northwestern Polytechnical University

[Hou, Hong](#)

Northwestern Polytechnical University

[Yang, Jianhua](#)

Northwestern Polytechnical University

14:20-14:40, Paper MoB5.2

[Gravity Directional Position Control of a Micro-Particle through Frequency Variation of a Single Ultrasonic Transducer](#)

[Lee, Han-Sol](#)

Chonnam National University

[Choi, Eunpyo](#)

Chonnam National University

[Kang, Byungjeon](#)

Chonnam National University

[Park, Jong-Oh](#)

Chonnam National University

[Kim, Chang-Sei](#)

Chonnam National University

14:40-15:00, Paper MoB5.3

[Model Construction of OTEC Plant Using Double-Stage Rankine Cycle with Time Delay by Considering Separator and Working Fluid Tank](#)

[Aosaki, Yuuya](#)

Saga University

[Matsuda, Yoshitaka](#)

Saga University

[Sugi, Takenao](#)

Saga University

[Goto, Satoru](#)

Saga University

[Yasunaga, Takeshi](#)

Saga University

[Ikegami, Yasuyuki](#)

Saga University

15:00-15:20, Paper MoB5.4

[Integration of PSO-Based Virtual Sensor and PID to Control Benfield Concentration of a Stripper Unit in a Fertilizer Plant](#)

[Nazaruddin, Yul Yunazwin](#)

Institut Teknologi Bandung

[Anditio, Bobby](#)

Institut Teknologi Bandung

[Andrini, Angela Dian](#)

Institut Teknologi Bandung

15:20-15:40, Paper MoB5.5

[Design of Optimal Control System for the Whole Process of Polyester Fiber](#)

[Jiang, Chunli](#)

Donghua University

[Hao, Kuangrong](#)

Donghua University

15:40-16:00, Paper MoB5.6

[Compensation Control for Tool Attitude in Directional Drilling Systems](#)

[Cai, Zhen](#)

China University of Geosciences

[Lai, Xuzhi](#)

China University of Geosciences

[Wu, Min](#)

China University of Geosciences

[Chen, Luefeng](#)

China University of Geosciences

[Lu, Chengda](#)

China University of Geosciences

MoB6

Conference Room 32

Optimal Control and Optimization (1)

Regular Session

Chair: [Suci, Barenten](#)

Fukuoka Institute of Technology

Co-Chair: [Yu, Jen-te](#)

Chung Yuan Christian University

14:00-14:20, Paper MoB6.1

[Means to Control the Motion of a Double-Cone on Tilting Divergent-Convergent Straight Rails](#)

[Suci, Barenten](#)

Fukuoka Institute of Technology

[Ohmura, Yuya](#)

Fukuoka Institute of Technology

[Takeda, Kosuke](#)

Fukuoka Institute of Technology

14:20-14:40, Paper MoB6.2

[Integrated Designs of Control and Compensation for Output Feedback Linear Quadratic Regulator across an Unreliable Communication Channel](#)

[Yu, Jen-te](#)

Chung Yuan Christian University

14:40-15:00, Paper MoB6.3

[Enhancement of Energy-Based Swing-Up Controller Via Entropy Search](#)

[Lee, Chang Sik](#)

Korea Advanced Institute of Science and Technology

[Chang, Dong Eui](#)

Korea Advanced Institute of Science and Technology

15:00-15:20, Paper MoB6.4

[A Study on Solutions to Finite-Time Optimal Control Problems by Numerical Gaussian Processes](#)

[Beppu, Hirofumi](#) Kyoto University
[Maruta, Ichiro](#) Kyoto University
[Fujimoto, Kenji](#) Kyoto University

15:20-15:40, Paper MoB6.5

[Risk-Aware Profit Maximization Problem in Multiperiod Energy Markets with Uncertain Photovoltaics Power](#)

[Tu, Bo](#) Tokyo Institute of Technology
[Imura, Jun-ichi](#) Tokyo Institute of Technology
[Ishizaki, Takayuki](#) Tokyo Institute of Technology

15:40-16:00, Paper MoB6.6

[Energy Management of Smart Home by Model Predictive Control Based on EV State Prediction](#)

[Ogata, Yuuki](#) Keio University, Japan
[Namerikawa, Toru](#) Keio University

MoB7

Conference Room 33

Adaptive Control and Tuning (1)

Regular Session

Chair: [Wang, Jun-Min](#) Beijing Institute of Technology
Co-Chair: [Medvedev, Mikhail](#) Southern Federal University

14:00-14:20, Paper MoB7.1

[Extremum Seeking Approach to Search the Optimal Feedback Coefficient of Euler-Bernoulli Beam Equation](#)

[Pan, Kaicheng](#) Beijing Institute of Technology
[Wang, Jun-Min](#) Beijing Institute of Technology
[Lu, Lu](#) Beijing Polytechnic

14:20-14:40, Paper MoB7.2

[Thermostat Temperature Adaptive Control Based on Relay Feedback Identification](#)

[ZHAO, Zhong](#) Beijing University of Chemical Technology
[ZHU, Lei](#) Beijing University of Chemical Technology
[ZHANG, Shengchen](#) Beijing University of Chemical Technology

14:40-15:00, Paper MoB7.3

[Adaptive Error Feedback Output Regulation for Parabolic PDEs with Unknown Disturbance](#)

[Liu, Weiwei](#) Beijing Institute of Technology
[Guo, Wei](#) University of International Business and Economics
[Wang, Jun-Min](#) Beijing Institute of Technology

15:00-15:20, Paper MoB7.4

[Thermal Modeling and Temperature Control of an All-Vanadium Redox Flow Battery](#)

[HaiFeng, Shen](#) Shanghai Jiao Tong University
[XinJian, Zhu](#) Shanghai Jiao Tong University
[Hongfei, Cao](#) Shanghai Jiao Tong University
[Xue, Binqiang](#) Qingdao University

15:20-15:40, Paper MoB7.5

[Strictly Positive Real Condition Establishment in Feedback Error Learning Control](#)

[Han, Xinyou](#) Nara Institute of Science and Technology
[Imahayashi, Wataru](#) Nara Institute of Science and Technology
[Sugimoto, Kenji](#) Nara Inst. of Science and Technology

15:40-16:00, Paper MoB7.6

[Multi-Loop Adaptive Control of Mobile Object Path](#)

[Medvedev, Mikhail](#) Southern Federal University

MoC1

Conference Room 11

Process Optimization and Control for Networked Systems (2)

Invited Session

Chair: [Du, Weni](#) East China University of Science and Technology
Co-Chair: [Wang, Yalin](#) Central South University
Organizer: [Li, Shaoyuan](#) Shanghai Jiao Tong University

16:20-16:40, Paper MoC1.1

[A Feedforward Decoupling Dynamic Matrix Control of Heavy Oil Separated Process with Smith Predictive Compensation Principle \(I\)](#)

[Zhang, Di](#) Central South University
[Cen, Lihui](#) Central South University
[Wang, Yalin](#) Central South University

16:40-17:00, Paper MoC1.2

[NMR Principle Analysis Based Object Detection for Intelligent Measurement of Crude Oil Moisture Content \(I\)](#)

[Yi, Ling](#) Northeastern University, State Key Laboratory of Synthetical Aut
[Ding, Jinliang](#) Northeastern University
[LIU, Changxin](#) Northeastern University

17:00-17:20, Paper MoC1.3

[Just-In-Time Learning for Cement Free Lime Prediction with Empirical Mode Decomposition and Database Monitoring Index \(I\)](#)

Zheng, Jinqun	East China University of Science and Technology
Du, Wenli	East China University of Science and Technology
Zhong, Weimin	East China University of Science and Technology
Qian, Feng	East China Univ. of Sci. and Tech

17:20-17:40, Paper MoC1.4

[Parameter Self-Tuning of SISO Compact-Form Model-Free Adaptive Controller Based on Neural Network with System Error Set As Input \(I\)](#)

Chen, Chen	Zhejiang University
Li, Xueyuan	Zhejiang University
Yang, Ye	Zhejiang University
Xu, Jiarong	Zhejiang University
Liao, Zuwei	Zhejiang University
LIU, Xinggao	Zhejiang University
Chen, Jinshui	Zhejiang University
Lu, Jiangang	Zhejiang University

17:40-18:00, Paper MoC1.5

[Reducing Cost of Process Modeling through Multi-Source Data Transfer Learning](#)

Chan, Lik Teck, Lester	Feng Chia University
Chen, Junghui	Chung-Yuan Christian University

18:00-18:20, Paper MoC1.6

[LACr Controllers for MIMO Chemical Processes](#)

BESTHA, CHANDRA SHEKAR	National Institute of Technology Calicut
Madhusoodanan, Nived	NIT Calicut
Nair, Rakesh	NIT Calicut
AP, Shinoy	NIT Calicut
Pisharody, Shyam K	NIT Calicut

MoC2

International Conference Room

Robotics and Motion Control (3)

Regular Session

Chair: Komizunai, Shunsuke	Hokkaido University
Co-Chair: Huo, Xin	Harbin Institute of Technology

16:20-16:40, Paper MoC2.1

[Cogging Torque Disturbance Rejection for a Low-Cost Gimbal Motor and a Controller Design with Practical Considerations](#)

Özdoğan, Gökhan	ASELSAN
Leblebicioğlu, M. Kemal	Middle East Technical University

16:40-17:00, Paper MoC2.2

[Vibration Elimination for Quadrotor Slung System Based on Input Shaping and Double Closed-Loop Control](#)

Huo, Xin	Harbin Institute of Technology
Chen, Jinyu	The University of Tokyo
Liu, Qingquan	Harbin Institute of Technology
He, Xin	Harbin Normal University

17:00-17:20, Paper MoC2.3

[Cooperative Massive Object Transportation by Two Humanoid Robots](#)

Yang, Jaesung	Hokkaido University
Tsujita, Teppei	National Defense Academy of Japan
Komizunai, Shunsuke	Hokkaido University
Konno, Atsushi	Hokkaido University

17:20-17:40, Paper MoC2.4

[Markerless Human Motion Tracking Using Microsoft Kinect SDK and Inverse Kinematics](#)

Alireza, Bilesan	Hokkaido University
Saeed, Behzadipour	Sharif University of Technology
Tsujita, Teppei	National Defense Academy of Japan
Komizunai, Shunsuke	Hokkaido University
Konno, Atsushi	Hokkaido University

17:40-18:00, Paper MoC2.5

[Archive Method of Stone Wall in Kumamoto Castle Lifted by Small CMG Crane Using Model Error Compensator](#)

Matsunaga, Nobutomo	Kumamoto University
Fauzan, Naufal Bayu	Kumamoto University
Okajima, Hiroshi	Kumamoto University
Koutaki, Gou	Kumamoto University

MoC3

Conference Room 21CD

Robust Control (2)

Regular Session

Chair: Yokoyama, Makoto	Niigata University
Co-Chair: Mukaidani, Hiroaki	Hiroshima University

16:20-16:40, Paper MoC3.1	
Open-Loop Dynamic Games for Interconnected Positive Nonlinear Systems with H-Infinity Constraint	
Mukaidani, Hiroaki	Hiroshima University
Ramasamy, Saravanakumar	Hiroshima University
Xu, Hua	Univ. of Tsukuba
16:40-17:00, Paper MoC3.2	
Extended Kalman Observer Based Robust Control of 1DOF TRMS	
Rao, Vidya	Manipal Institute of Technology, MAHE, Manipal
Bhat, Akhila	Manipal Institute of Technology
Morales, Rafael Mauricio	University of Leicester
17:00-17:20, Paper MoC3.3	
Robust Output Feedback Depth Control Design for a Class of AUVs in Diving Plane	
Memon, Attaullah Y.	PNEC, NUST
Qazi, Hassaan Ali	PNEC, NUST
17:20-17:40, Paper MoC3.4	
Trajectory Tracking for Nonholonomic Mobile Robot (NMR) Via Non-Singular Terminal Sliding Mode Control	
Giga, Bilal M Yousuf	PNEC-NUST
Maham, Ghauri	FAST-NUCES
Aqib Noor, Aqib	FAST-NUCES
Dayo, Aamir Ali	FAST-NUCES
Khan, Abdul Saboor	FAST-NUCES
Fatima, Rabia	FAST-NUCES
17:40-18:00, Paper MoC3.5	
Force Compensation Based on Observer for Assembly of Magnetized Components	
Monjiyama, Ryu	Saitama University
Mizuno, Takeshi	Saitama University
Ishino, Yuji	Saitama University
Takasaki, Masaya	Saitama University
Yamaguchi, Daisuke	Saitama University
MoC4	Conference Room 21AB
Automotive Systems (2)	Regular Session
Chair: Yamamoto, Shigeru	Kanazawa University
Co-Chair: Schaut, Stefan	University of Stuttgart
16:20-16:40, Paper MoC4.1	
Efficiency Optimization for Permanent-Magnet Synchronous Machine Using Model-Referenced Square-Wave-Based Extremum Seeking Control	
Luo, Guangqing	Kanazawa University
Yamamoto, Shigeru	Kanazawa University
16:40-17:00, Paper MoC4.2	
Environmental Parameter Prediction for Connected Cars Using Machine Learning	
Schaut, Stefan	University of Stuttgart
Straub, Fabian	University of Stuttgart
Hepperle, Frank	Daimler AG
Sawodny, Oliver	University of Stuttgart
17:00-17:20, Paper MoC4.3	
Second Order Sliding Mode Based Speed Tracking Control for Torque Management of Gasoline Engines	
Anjum, Raheel	Capital University of Science and Technology
Yar, Ahmed	Capital University of Science and Technology
Khan, Imran	National University of Technology, Islamabad
Ahmed, Qadeer	The Ohio State University
Bhatti, Aamer Iqbal Bhatti	Capital University of Sciences & Technology, Islamabad
17:20-17:40, Paper MoC4.4	
Iterative Algorithm to Coupled Matrix Equations and Its Control Application	
Song, Caiqin	University of Jinan
Sun, LIVING	Jinan University
17:40-18:00, Paper MoC4.5	
Design of Vibration-Isolating Bed for Ambulances Using Inerter	
Koyanagi, Ryosuke	Keio University
Takahashi, Masaki	Keio University
MoC5	Conference Room 22
Control Applications (3)	Regular Session
Chair: Gambier, Adrian	Fraunhofer IWES, Fraunhofer Institute for Wind Energy Systems
Co-Chair: Zhang, Heng	Huaihai Institute of Technology
16:20-16:40, Paper MoC5.1	
Communication Connectivity in Multi-Agent Systems with Multiple Uncooperative Agents	

[Ju, Zhiyang](#) The University of Melbourne
[Shames, Iman](#) University of Melbourne
[Nesic, Dragan](#) University of Melbourne

16:40-17:00, Paper MoC5.2

[Nonlinear PI Control of a 20 MW Reference Wind Turbine](#)

[Gambier, Adrian](#) Fraunhofer IWES, Fraunhofer Institute for Wind Energy Systems

17:00-17:20, Paper MoC5.3

[Optimal Economic Operation of Microgrid Considering Lifetime Characteristics for Hybrid Energy Storage System](#)

[Ding, Min](#) China University of Geosciences(Wuhan)

[Wu, Xiaomin](#) China University of Geosciences(Wuhan)

[Li, Danyun](#) China University of Geosciences (Wuhan)

[Cao, Weihua](#) China University of Geosciences, Wuhan, China

[Wang, Dianhong](#) China University of Geosciences

[Chen, Luefeng](#) China University of Geosciences

17:20-17:40, Paper MoC5.4

[Analysis on Attack Schedules in Wireless Networked Control Systems Based on Channel Hopping \(I\)](#)

[Gan, Ruimeng](#) National Key Laboratory of Science and Technology on Communicati

[Shao, Jinliang](#) University of Electronic Science and Technology of China

[Zhang, Heng](#) Huaihai Institute of Technology

[Xiao, Yue](#) National Key Laboratory of Science and Technology on Communicati

17:40-18:00, Paper MoC5.5

[Autonomous Control of an Electric Wheel-Foot Robotic System Based on Stewart Structure \(I\)](#)

[Liu, Dongchen](#) Beijing Institute of Technology

[Wang, Junzheng](#) Beijing Institute of Technology

[Wang, Shoukun](#) Beijing Institute of Technology

[Shi, Dawei](#) Harvard University

[Li, Jing](#) Beijing Institute of Technology

[Shen, Wei](#) Beijing Institute of Technology

MoC6

Conference Room 32

Optimal Control and Optimization (2)

Regular Session

Chair: [Namerikawa, Toru](#) Keio University

Co-Chair: [Hao, Kuangrong](#) Donghua University

16:20-16:40, Paper MoC6.1

[The Multi-Objective Optimization of Esterification Process Based on Improved NSGA-III Algorithm](#)

[Hao, Kuangrong](#) Donghua University

16:40-17:00, Paper MoC6.2

[Velocity Profile Optimization of an Electric Vehicle \(EV\) with Battery Dynamic Model](#)

[naeem, yasir](#) Capital University of Science and Technology

[Bhatti, Aamer Iqbal Bhatti](#) Capital University of Sciences & Technology, Islamabad

[Butt, Yasir Awais](#) Capital University of Science and Technology Islamabad

[Ahmed, Qadeer](#) The Ohio State University

17:00-17:20, Paper MoC6.3

[An Optimal L₁ Navigation Design Framework for Constrained Heading Control and Coordination](#)

[Zheng, Hui Xin](#) Beijing Institute of Technology

[Hong, Haichao](#) Beijing Institute of Technology

[Tang, Shengjing](#) Beijing Institute of Technology

17:20-17:40, Paper MoC6.4

[Iterative Learning Control for Soil Loading Operation of Excavator](#)

[Jongluxmanee, Jirapat](#) Tokyo Institute of Technology

[Kohei, Oji](#) Tokyo Institute of Technology

[Yamakita, Masaki](#) Tokyo Inst. of Tech

17:40-18:00, Paper MoC6.5

[Optimization of Power Flow and Scheduling for EV Charging Based on Distributed Control](#)

[Mizuno, Keisuke](#) Keio University

[Namerikawa, Toru](#) Keio University

18:00-18:20, Paper MoC6.6

[An Optimization Method for Building Retrofit Planning Based on a Grouping Method and Notch Test Data](#)

[Fan, Yuling](#) Huazhong Agricultural University

[Xia, Xiaohua](#) Univ. of Pretoria

MoC7

Conference Room 33

Adaptive Control and Tuning (2)

Regular Session

Chair: [Mizumoto, Ikuro](#) Kumamoto University

Co-Chair: [Chen, Yong](#) Aeronautics Engineering College, Air Force Engineering University

16:20-16:40, Paper MoC7.1

[Iterative PID Gain Tuning Using Gradient Estimate of Variance Cost Criterion through Regulatory Control Data](#)

[Masuda, Shiro](#) Tokyo Metropolitan University

16:40-17:00, Paper MoC7.2

[Adaptive Output Feedback Control and Adaptive Design of Static PFC for Discrete-Time MIMO Systems](#)

[Fujii, Seiya](#) Kumamoto University

[Uchida, Satoshi](#) Kumamoto University

[Mizumoto, Ikuro](#) Kumamoto University

17:00-17:20, Paper MoC7.3

[Improved Dynamic Surface Control for a Class of Nonlinear Systems](#)

[Liu, Zongcheng](#) Air Force Engineering University

[Li, Qiuni](#) Air Force Engineering University

[Chen, Yong](#) Aeronautics Engineering College, Air Force Engineering University

[Lv, Maolong](#) Delft University of Technology

[Zuo, Renwei](#) Air Force Engineering University

17:20-17:40, Paper MoC7.4

[Adaptive Tracking Control of Uncertain Nonlinear Systems with Saturated Input Quantization](#)

[Lai, Guanyu](#) Guangdong University of Technology

[Wen, Changyun](#) Nanyang Tech. Univ

[Zhang, Yun](#) Guangdong University of Technology

17:40-18:00, Paper MoC7.5

[Analysis and Structural Control of the Offshore Wind Turbine Using a Dynamic Mass Damper Optimized by Genetic Algorithm](#)

[MAC, THANH TUNG](#) Kyoto Institute of Technology

[Miura, Nanako](#) Kyoto Institute of Technology

[Sone, Akira](#) Kyoto Institute of Technology

18:00-18:20, Paper MoC7.6

[Adaptive Object Tracking of Quadrotor in Presence of Wind Disturbance](#)

[Lai, Jiun-Jau](#) National Taiwan University

[Chang, Che-Cheng](#) National Taiwan University

[Lian, Feng-Li](#) National Taiwan University



2019 12th Asian Control Conference (ASCC)

June 9-12, 2019, Kitakyushu, Fukuoka, Japan

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Last updated on May 29, 2019. This conference program is tentative and subject to change

Technical Program for Tuesday June 11, 2019

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TuPPI	Main Hall
Brain-Machine Interfaces: A Role of Control Engineers, Prof. Keum-Shik Hong	Plenary Session
Chair: Namerikawa, Toru	Keio University
TuA1	Conference Room 11
Case Studies on Motion and Vibration Control	Invited Session
Chair: Yokoyama, Makoto	Niigata University
Co-Chair: Narukawa, Terumasa	Saitama University
Organizer: Mizuno, Takeshi	Saitama University
10:20-10:40, Paper TuA1.1	
Pitching Motion Control of a Wheeled Mobile Robot with Variable-Pitch Blades Via Backstepping Method (I)	
Yokoyama, Makoto	Niigata University
Kakuta, Akihiko	Niigata University
10:40-11:00, Paper TuA1.2	
Torso and Swing-Leg Control for a Planar Biped Walker with Hip Series Elastic Actuators (I)	
Maezawa, Naoto	Saitama University
Narukawa, Terumasa	Saitama University
Yamamoto, Hiroshi	Saitama University
11:00-11:20, Paper TuA1.3	
Intermediate Control for Stable Trajectory in a Relay-Feedback Mass Measurement System (I)	
Mizuno, Takeshi	Saitama University
Nishizawa, Keisuke	Saitama University
Ishino, Yuji	Saitama University
Takasaki, Masaya	Saitama University
Yamaguchi, Daisuke	Saitama University
11:20-11:40, Paper TuA1.4	
Stabilization of Magnetic Suspension System by Using First-Order-Reset Element without Derivative Feedback (I)	
Ishino, Yuji	Saitama University
Mizuno, Takeshi	Saitama University
Takasaki, Masaya	Saitama University
Yamaguchi, Daisuke	Saitama University
11:40-12:00, Paper TuA1.5	
Bearingless Motor with Noncontact Power Supply* - FEM Analysis of Rotation Performance - (I)	
Oka, Koichi	Kochi University of Technology
Tanii, Isao	Kochi University of Technology
Makita, Kazuma	Kochi University of Technology
Harada, Akinori	Kochi University of Technology
Lin, James	Kochi University of Technology
12:00-12:20, Paper TuA1.6	
Realization of Vibration Absorption at Multiple Frequencies on Vacuum Chamber with Cryopump (I)	
Mizuno, Takeshi	Saitama University
Iida, Takahito	Saitama University
Ishino, Yuji	Saitama University
Takasaki, Masaya	Saitama University
Yamaguchi, Daisuke	Saitama University
Hara, Masayuki	Saitama University
TuA2	International Conference Room
Complex Systems and Networks	Regular Session
Chair: Fu, Minyue	Univ. of Newcastle
Co-Chair: Li, Zhixun	The Australian National University
10:20-10:40, Paper TuA2.1	

Control Design and Stability Analysis of a Two-Infectious-State Awareness Epidemic Model

[Li, Zhixun](#) The Australian National University
[HONG, JIE](#) Nanyang Technological University
[Kim, Jonghyuk](#) The Australian National University
[YU, Changbin](#) Australian National University

10:40-11:00, Paper TuA2.2

Nonlinear Model Predictive Congestion Control Based on LSTM for Active Queue Management in TCP Network

[Hu, Mengzheng](#) Hiroshima University
[Mukaidani, Hiroaki](#) Hiroshima University

11:00-11:20, Paper TuA2.3

A Decentralized Control Strategy for Urban Traffic Network

[Pham, Viet Hoang](#) GIST
[Sakurama, Kazunori](#) Kyoto University
[Ahn, Hyo-Sung](#) Gwangju Institute of Sci & Tech

11:20-11:40, Paper TuA2.4

An Agent Based Economic Model with Centralized Mode Analysis for the Economic Big Data: Method for Management and Scenario Simulation of Bookkeeping Big Data

[Kaya, Akaqi](#) Tokyo Institute of Technology
[Deguchi, Hiroshi](#) Tokyo Institute of Technology

11:40-12:00, Paper TuA2.5

A BP-Like Distributed Algorithm for Weighted Average Consensus

[Zhang, Zhaorong](#) 1993
[Xie, Kan](#) Guangdong University of Technology
[Cai, Qianqian](#) Guangdong University of Technology
[Fu, Minyue](#) Univ. of Newcastle

12:00-12:20, Paper TuA2.6

Stealthiness of Attacks and Vulnerability of Stochastic Linear Systems

[Sui, Tianju](#) Dalian University of Technology
[Marelli, Damián](#) Guangdong University of Technology
[Sun, Xi-Ming](#) Dalian University of Technology
[Fu, Minyue](#) Univ. of Newcastle

TuA3

Conference Room 21CD

System Theory (1)

Regular Session

Chair: [Huang, James Jianhui](#) Hong Kong Polytechnic University
Co-Chair: [Wakasa, Yuji](#) Yamaguchi University

10:20-10:40, Paper TuA3.1

Fully-Distributed Accelerated ADMM for DC Optimal Power Flow Problems with Demand Response

[Matsuda, Yusuke](#) Yamaguchi University
[Wakasa, Yuji](#) Yamaguchi University
[Masuda, Eiji](#) Yamaguchi University

10:40-11:00, Paper TuA3.2

Observer-Based Feedback Stabilization of Distributed Parameter Systems of Parabolic Type with Non-Self-Adjoint Operators

[Tsutsui, Yoshiyuki](#) The Graduate University for Advanced Studies
[Miyasato, Yoshihiko](#) Inst. of Statistical Mathematics

11:00-11:20, Paper TuA3.3

The Coverage Control Solutions Based on Evolutionary Game Theory in the Multi-Agent Systems

[Zhang, Jian](#) Nankai University
[Zhang, Jianlei](#) Nankai University

11:20-11:40, Paper TuA3.4

Weighted Explicit Iterative Algorithms for Continuous Coupled Lyapunov Matrix Equations

[Wu, Wanqi](#) Harbin Institute of Technology, Shenzhen
[Zhang, Ying](#) Harbin Institute of Technology

11:40-12:00, Paper TuA3.5

Finite-Region Contractive Stability Analysis of 2-D Fornasini-Marchesini Systems

[Li, Lingling](#) Shandong University
[Ding, Shufen](#) School of Control Science and Engineering, Shandong University
[Yang, Rongni](#) Shandong University
[Su, Xiaojie](#) Chongqing University

TuA4

Conference Room 21AB

Noise and Vibration Control

Regular Session

Chair: [Hirata, Mitsuo](#) Utsunomiya University
Co-Chair: [Kobayashi, Yohji](#) Kobe City College of Technology

10:20-10:40, Paper TuA4.1

Robust Optimal Control for Flexible Space Structures by Gain and Phase Compensation Using Displacement Output

[Kobayashi, Yohji](#)

Kobe City College of Technology

10:40-11:00, Paper TuA4.2

Multi-Modal Vibration Control of a Double Shell Railway Car-Body Model Using Passive Piezo-Electric Shunt Circuit

[DAS, SILABHADRA](#)

Graduate School of Engineering, Hokkaido University, Sapporo

[Gupta, Ashish](#)

Graduate School of Engineering, Hokkaido University, Sapporo

[Kobayashi, Yukinori](#)

Hokkaido University

[Emaru, Takanori](#)

Hokkaido University

[Ravankar, Ankit](#)

Hokkaido University

11:00-11:20, Paper TuA4.3

Vibration Control of a Flexible Marine Riser with Time-Varying Length

[Pham, Phuong-Tung](#)

Pusan National University

[Hong, Keum-Shik](#)

Pusan National Univ

11:20-11:40, Paper TuA4.4

A Novel Active Noise Control System with Online Secondary-Path Filter Based on a Step-size Controller

[Kim, Dong Woo](#)

POSTECH

[Park, PooGyeon](#)

Pohang Univ. of Sci. & Tech

11:40-12:00, Paper TuA4.5

A Filtered-X VSS-NLMS Active Noise Control Algorithm Robust against Impulsive Noise and Noisy Inputs

[Park, Taesu](#)

Pohang University of Science and Technology

[Lee, Minh](#)

Pohang University of Science and Technology

[Kim, Min Su](#)

Pohang University of Science and Technology

[Park, PooGyeon](#)

Pohang Univ. of Sci. & Tech

TuA5

Conference Room 22

Nonlinear Control (1)

Regular Session

Chair: [Khairuddin, Uswah](#)

Malaysia -Japan International Institute of Technology (MJIIT), Universiti Teknologi Malaysia

Co-Chair: [Yang, Qinmin](#)

Zhejiang University

10:20-10:40, Paper TuA5.1

Hybrid Nonlinear Controller Design for Air Conditioning System

[Behrooz, Farinaz](#)

Malaysia -Japan International Institute of Technology (MJIIT),

[Yousof, Rubiyah](#)

Centre for Artificial Intelligence and Robotics (CAIRO), Malaysi

[Khairuddin, Uswah](#)

Malaysia -Japan International Institute of Technology (MJIIT), U

10:40-11:00, Paper TuA5.2

Effective Wind Speed Estimation and Prediction Based Feedforward Feedback Pitch Control for Wind Turbines

[Jiao, Xuguo](#)

Zhejiang University

[Yang, Qinmin](#)

Zhejiang University

[Zhu, Chongxi](#)

Zhejiang Windey Co., Ltd

[Fu, Lingkun](#)

Zhejiang University

[Chen, Qi](#)

Zhejiang Windey Co., Ltd

11:00-11:20, Paper TuA5.3

Tracking Control of Autonomous Vehicles Via I-O Linearization and Backstepping Method with ISMC

[Ko, Myat Thiri](#)

Yangon Technological University

[Yokoyama, Makoto](#)

Niigata University

11:20-11:40, Paper TuA5.4

Global Fixed-Time Trajectory Tracking Control of Surface Vehicles

[Gao, Zhenyu](#)

Dalian Maritime University

[Guo, Ge](#)

Dalian Maritime University

[Wen, Shixi](#)

School of Information and Engineering, Dalian University

11:40-12:00, Paper TuA5.5

On the Application of Adaptive Online Learning Based Control on Single Axis Tilting Thrust Vectored Quadcopter

[Mishra, Amardeep](#)

IIT Madras

[Zinage, Vrushabh](#)

Indian Institute of Technology Madras

TuA6

Conference Room 32

Process and Chemical Systems

Regular Session

Chair: [He, Yan-Lin](#)

Beijing University of Chemical Technology

Co-Chair: [Zhao, Chunhui](#)

Zhejiang University

10:20-10:40, Paper TuA6.1

An Adaptive Optimization Approach Based on the Human Factors and Its Application to Process Alarm Thresholds

[Li, Jince](#)

Beijing University of Chemical Technology

[Wang, Yongjian](#)

Beijing University of Chemical Technology

[Li, Hongguang](#)

Beijing University of Chemical Technology

[Yang, Bo](#)

Beijing University of Chemical Technology

10:40-11:00, Paper TuA6.2
Soft Sensor Development Using PLSR Based Multi-Kernel ELM
[ZHU, Qunxiong](#) Beijing University of Chemical Technology
[Xiaohan, Zhang](#) Beijing University of Chemical Technology
[Gao, Huihui](#) Beijing University of Technology
[geng, zhiqiang](#) Beijing University of Chemical Technology
[Han, Yongming](#) Beijing University of Chemical Technology
[He, Yan-Lin](#) Beijing University of Chemical Technology
[XU, Yuan](#) Beijing Univ. of Chemical Technology

11:00-11:20, Paper TuA6.3
Fuzzy PID Control Based on Working Condition Identification for Mould Level in Continuous Casting Process
[Feng, Ying](#) China University of Geosciences
[Wu, Min](#) China University of Geosciences
[Chen, Xin](#) China University of Geosciences
[Chen, Luefeng](#) China University of Geosciences
[Du, Sheng](#) China University of Geosciences

11:20-11:40, Paper TuA6.4
Numerical Simulation of Thermal Field in Czochralski Monocrystalline Silicon Shoulder
[zhang, jing](#) Xi'an University of Technology
[潘, 亚妮](#) Xi'an University of Technology
[liu, ding](#) Xi'an University of Technology

11:40-12:00, Paper TuA6.5
Online Fault Prognostics Based on Degradation-Oriented Slow Feature Analysis and Temporal Smoothness Analysis
[Hu, Yunyun](#) Zhejiang University
[Zhao, Chunhui](#) Zhejiang University

TuA7 Conference Room 33
Sensors and Sensor Fusion Regular Session
Chair: [Li, Xiaobin](#) Lanzhou Institute of Technology; Jožef Stefan International Postgraduate School
Co-Chair: [Shao, Weiming](#) Zhejiang University

10:20-10:40, Paper TuA7.1
A Novel Streaming Variational Bayesian Supervised Factor Analysis for Industrial Adaptive Soft Sensor Modeling
[Yang, Zeyu](#) Zhejiang University
[Yao, Le](#) Zhejiang University
[Ge, Zhiqiang](#) Zhejiang University

10:40-11:00, Paper TuA7.2
Driver's Gaze-Point Analysis of Virtual Platoon Driving for Welfare Vehicle Using Direct Eye Measurement Device with HMD
[Matsunaga, Nobutomo](#) Kumamoto University
[Takeuchi, Yudai](#) Kumamoto University
[Okajima, Hiroshi](#) Kumamoto University

11:00-11:20, Paper TuA7.3
Walking Measurement System Including Turning Motion Assessment Using Depth Sensors
[Ono, Tomoko](#) Keio University
[Takahashi, Masaki](#) Keio University

11:20-11:40, Paper TuA7.4
Nonlinear Inferential Sensor Development Based on GMM-ELM
[Shao, Weiming](#) Zhejiang University
[Ge, Zhiqiang](#) Zhejiang University
[Song, Zhihuan](#) Zhejiang University
[Zhao, Li](#) Zhejiang University

11:40-12:00, Paper TuA7.5
Robust Soft Sensing for Multi-Mode Processes Based on Bayesian Regularized Student's-T Mixture Regression
[Wang, Jingbo](#) Department of Control Engineering, Zhejiang University
[Shao, Weiming](#) Zhejiang University
[Song, Zhihuan](#) Zhejiang University

12:00-12:20, Paper TuA7.6
Topology Sequences-Based Fuzzy Track Initialization Method for Radars and ADS-B
[Li, Xiaobin](#) Lanzhou Institute of Technology; Jožef Stefan International Post
[Ma, Hongfeng](#) College of Electronic and Information Engineering, Lanzhou Insti
[Fan, En](#) Shaoying University

TuB1 Conference Room 11
Advanced Control Methods and Applications Invited Session
Chair: [Tsai, Ching-Chih](#) National Chung-Hsing Univ

Co-Chair: [Yu, Gwo-Ruey](#) National Chung Cheng University
Organizer: [Tsai, Ching-Chih](#) National Chung-Hsing Univ

14:00-14:20, Paper TuB1.1

[Cooperative SLAM of an Autonomous Indoor Quadrotor Flying Together with an Autonomous Ground Robot \(I\)](#)

[Lin, Xin-Cheng](#) National Chung Hsing University
[Tsai, Ching-Chih](#) National Chung-Hsing Univ
[Tai, Feng-Chun](#) National Chung Hsing University

14:20-14:40, Paper TuB1.2

[Development of an Effective 3D VR-Based Manipulation System for Industrial Robot Manipulators \(I\)](#)

[Su, Yu-Hsuan](#) National Chiao Tung University
[Xu, Yong Qi](#) Department of Electrical Engineering, National Chiao Tung Univ
[Cheng, Su Ling](#) Far East University
[Ko, Chun-hsu](#) I-Shou University
[Young, Kuu-young](#) National Chiao-Tung Univ

14:40-15:00, Paper TuB1.3

[Polynomial Fuzzy Control of an Underactuated Robot Using Sum of Squares \(I\)](#)

[Yu, Gwo-Ruey](#) National Chung Cheng University
[Chiu, Yu-Shan](#) National Chung Cheng University
[Huang, Lun-Wei](#) National Chung Cheng University

15:00-15:20, Paper TuB1.4

[A Client-Server Architecture for Object Volume Measurement on a Conveyor Belt \(I\)](#)

[Song, Kai-Tai](#) National Chiao Tung University
[Ou, Song-Qing](#) National Chiao Tung University
[Tien, Yung-Ping](#) Industrial Technology Research Institute of Taiwan R.O.C

15:20-15:40, Paper TuB1.5

[Simultaneous Localization and Calibration Employing Two Flying Cameras](#)

[Chang, Wen-Chung](#) National Taipei University of Technology
[Hong, Yu-Jia](#) National Taipei University of Technology
[Pham, Van-Toan](#) National Taipei University of Technology

TuB2

International Conference Room

Cooperative Control (1)

Regular Session

Chair: [Zamani, Mohammad](#) DSTG
Co-Chair: [Nguyen, Dinh Hoa](#) Kyushu University

14:00-14:20, Paper TuB2.1

[Rectangular Impulsive Consensus of Multi-Agent Systems with Heterogeneous Control Widths](#)

[Ye, Pengpeng](#) Nanjing University of Science and Technology
[He, Jiafan](#) Nanjing University of Science and Technology
[Li, Yinya](#) Nanjing University of Science and Technology
[Qi, Guoqing](#) Nanjing University of Science and Technology
[Sheng, Andong](#) Nanjing University of Science and Technology

14:20-14:40, Paper TuB2.2

[Collaborative Pose Filtering Using Relative Measurements and Communications](#)

[Zamani, Mohammad](#) DSTG
[Hunjet, Robert](#) Defence Science and Technology Group

14:40-15:00, Paper TuB2.3

[Event-Based Leader-Follower Consensus for Linear Multi-Agent Systems with Adaptive Weighting under Directed Communication Topologies](#)

[Zhang, Limin](#) Beijing Institute of Technology
[Sun, Jian](#) Beijing Institute of Technology
[Lai, Guanyu](#) Guangdong University of Technology

15:00-15:20, Paper TuB2.4

[An LQG Motivated Leader-Follower Consensus with Uncertainty](#)

[Wong, Cheuk Fung Raphael](#) Hong Kong University of Science and Technology
[Tsang, Kam Fai Elvis](#) Hong Kong University of Science and Technology
[Shi, Ling](#) Hong Kong Univ. of Sci. and Tech

15:20-15:40, Paper TuB2.5

[Design of Robust Hierarchical Control for Homogeneous Multi-Agent Systems with Parametric Uncertainty and Exogenous Disturbance](#)

[Pham, Tuynh Van](#) Chulalongkorn University
[Nguyen, Dinh Hoa](#) Kyushu University
[Banjerdpongchai, David](#) Chulalongkorn University

15:40-16:00, Paper TuB2.6

[Event-Triggered Distributed Optimal Consensus Control for Multi-Agent Systems with Actuator Saturation](#)

[Wang, Dong](#) Dalian University of Technology
[huang, Yun](#) Dalian University of Technology
[Wang, Wei](#) Dalian University of Technology

[Zhao, Jun](#)
[Wang, Linqing](#)

Dalian University of Technology, Dalian, Liaoning
Dalian University of Technology, Dalian, Liaoning

TuB3 Conference Room 21CD

System Theory (2) Regular Session

Chair: [Okuyama, Yoshifumi](#) Humanitech Laboratory
Co-Chair: [Han, Dongkun](#) The Chinese University of Hong Kong

14:00-14:20, Paper TuB3.1

[Simulating Social Control Mechanisms in Changing Intentions to Implement Transformational Adaptation](#)

[Yosua, Albert](#) Tokyo Institute of Technology
[Chang, Shuang](#) Tokyo Institute of Technology
[Hiroshi, Deguchi](#) Tokyo Institute of Technology

14:20-14:40, Paper TuB3.2

[Stability Analysis of Discrete Event Control Systems Based on Connection Matrices and Graphs](#)

[Okuyama, Yoshifumi](#) Humanitech Laboratory

14:40-15:00, Paper TuB3.3

[Event-Triggered Mixed Control for Markov Jump Systems with Time Delay and Input Nonlinearity](#)

[jin, liqiang](#) Institute of Automation, Jiangnan University
[Yin, Yanyan](#) Curtin University
[Liu, Fei](#) Jiangnan University
[Teo, Kok Lay](#) Curtin University of Technology

15:00-15:20, Paper TuB3.4

[Grinding Mill Process Optimization Algorithm](#)

[Lipnicki, Piotr](#) ABB, Corporate Research Center, Kraków
[Lewandowski, Daniel](#) ABB, Corporate Research Center, Kraków

15:20-15:40, Paper TuB3.5

[Estimating the Region of Attraction for Switched Nonlinear Systems: A Continuous Piecewise Lyapunov Function Approach](#)

[Han, Dongkun](#) The Chinese University of Hong Kong
[Du, Zhaobin](#) South China University of Technology

TuB4 Conference Room 21AB

Mechatronics (1) Regular Session

Chair: [Komori, Mochimitsu](#) Kyushu Institute of Technology
Co-Chair: [Narita, Takayoshi](#) Tokai University

14:00-14:20, Paper TuB4.1

[Dynamic Characteristics of Magnetic Levitation Using SC Coil in the Vertical and Horizontal Directions](#)

[Komori, Mochimitsu](#) Kyushu Institute of Technology
[Minoda, Akira](#) Kyushu Institute of Technology
[Nemoto, Kaoru](#) Kyushu Institute of Technology
[Asami, Ken-ichi](#) Kyushu Institute of Technology
[Sakai, Nobuo](#) Kyushu Institute of Technology

14:20-14:40, Paper TuB4.2

[Bending Magnetic-Levitation Control for Flexible Steel Plate \(Fundamental Consideration on Disturbance Cancellation Control under Disturbance Conditions\)](#)

[Ogawa, Kazuki](#) Tokai University
[Tada, Makoto](#) Tokai University
[Narita, Takayoshi](#) Tokai University
[Kato, Hideaki](#) Tokai University

14:40-15:00, Paper TuB4.3

[Electromagnetic Levitation System for Thin Steel Plate Using Electromagnets and Permanent Magnets \(Fundamental Consideration on Optimal Placement to Suppress the Deflection of Steel Plate\)](#)

[Ito, Yasuaki](#) Tokai University
[Oda, Yoshiho](#) Tokai University
[Narita, Takayoshi](#) Tokai University
[Kato, Hideaki](#) Tokai University

15:00-15:20, Paper TuB4.4

[Basic Development of Inverted Pendulum Type Power Generator Based on Autoparametric Resonance for Low Frequency](#)

[Taniquchi, Tomoyuki](#) National Institute of Maritime, Port and Aviation Technology, Na

15:20-15:40, Paper TuB4.5

[Proposal of Mass Estimation Regardless of Switching Position in a Relay Feedback Mass Measurement System](#)

[Egawa, Taku](#) Saitama University
[Mizuno, Takeshi](#) Saitama University
[Takasaki, Masaya](#) Saitama University
[Ishino, Yuji](#) Saitama University
[Yamauchi, Daisuke](#) Saitama University

15:40-16:00, Paper TuB4.6

[OptoShield: A Low-Cost Tool for Control and Mechatronics Education](#)

[Takács, Gergely](#)

Slovak University of Technology in Bratislava, Faculty OfMechani

[Konkoly, Tibor](#)

Slovak University of Technology in Bratislava

[Gulan, Martin](#)

Slovak University of Technology

TuB5

Conference Room 22

Nonlinear Control (2)

Regular Session

Chair: [Wang, Xiangyu](#)

Southeast University

Co-Chair: [Iwai, Masataka](#)

Mhi Ns Engineering

14:00-14:20, Paper TuB5.1

[Stabilization Control for Nonholonomic Vehicles with Second Order Dynamics](#)

[He, Xiaodong](#)

Peking University

[Geng, Zhiyong](#)

Peking University

14:20-14:40, Paper TuB5.2

[Finite-Time Simultaneous Stabilization for Two Nonlinear Descriptor Systems with Actuator Saturation](#)

[Li, Meiqing](#)

University of Jinan

[Sun, Liying](#)

Jinan University

[Sun, Yuangong](#)

University of Jinan

14:40-15:00, Paper TuB5.3

[Reset Control of Combustion Oscillation Model](#)

[Iwai, Masataka](#)

Mhi Ns Engineering

15:00-15:20, Paper TuB5.4

[Consensus Algorithms for a Class of Disturbed Nonlinear Multi-Agent Systems Via Integral Sliding-Mode Control](#)

[Wang, Guodong](#)

Southeast University, China

[Wang, Xiangyu](#)

Southeast University

[Li, Shihua](#)

Southeast University

[Yang, Jun](#)

Southeast University

[Dan, Niu](#)

Southeast University

[Xisong, Chen](#)

Southeast University

15:20-15:40, Paper TuB5.5

[An Improved Stability Analysis Method for Hamiltonian Systems with Input Saturation and Delay](#)

[Sun, Weiwei](#)

Qufu Normal University

[Wang, Liping](#)

Qufu Normal University

[Xie, Xuejun](#)

Qufu Normal University

TuB6

Conference Room 32

Predictive Control (1)

Regular Session

Chair: [Xu, Jun](#)

Harbin Institute of Technology, Shenzhen

Co-Chair: [Abe, Naoto](#)

Meiji University

14:00-14:20, Paper TuB6.1

[Control Separation Based Model Predictive Control for Rejection of Unmatched Input Disturbances](#)

[Wen, Liyan](#)

Nanjing University of Aeronautics and Astronautics

[Tao, Gang](#)

Univ. of Virginia

[Jiang, Bin](#)

NUAA

[Tan, Chang](#)

East China Jiaotong University

[Mao, Zehui](#)

Nanjing University of Aeronautics and Astronautics

14:20-14:40, Paper TuB6.2

[Neighbour-Based Synchronous Distributed Receding Horizon Control for Multi-Agent Systems](#)

[Yang, Yuanqing](#)

Xi'an Jiaotong University

[Ding, Baocang](#)

Xi'an Jiaotong University

[Zhao, Jun](#)

Zhejiang University

[Xu, Zuhua](#)

Zhejiang University

[Zou, Tao](#)

Shenyang Institute of Automation, Chinese Academy of Sciences

[Wang, Yong](#)

Xian Jiaotong University

[HU, JIANCHEN](#)

Xian Jiaotong University

[Ping, Xubin](#)

Xidian University

14:40-15:00, Paper TuB6.3

[Experimental Comparison of the Integral Approximation for the State Predictive Control - the Stabilization Control of the Inverted Pendulum with Flexible Arm -](#)

[Abe, Naoto](#)

Meiji University

[Fukunaga, Shinya](#)

Meiji University

15:00-15:20, Paper TuB6.4

[A Controller-Dynamic-Linearization-Based Model Predictive Control Approach for SISO Discrete-Time Nonlinear Systems](#)

[Yu, Hansong](#)

Beijing Jiaotong University

[Hou, Zhongsheng](#)

Beijing Jiaotong University

[Yu, Xian](#)

Beijing Jiaotong University

15:20-15:40, Paper TuB6.5

An Improved Multi-Stage Nonlinear Model Predictive Control with Application to Semi-Batch Polymerization

[Sun, Jinggao](#) East China University of Science and Technology
[Yuan, Wuyue](#) East China University of Science and Technology
[Xue, Rui](#) East China University of Science and Technology
[wang, mengling](#) East China University of Science and Technology

15:40-16:00, Paper TuB6.6

Multilevel Lattice Piecewise Linear Representation and Its Application in Explicit Predictive Control

[Wang, Yixuan](#) HIT(Shenzhen)
[Li, Zhen](#) Harbin Institute of Technology (shenzhen)
[Xu, Jun](#) Harbin Institute of Technology, Shenzhen
[Li, Jiangang](#) Harbin Institute of Technology (ShenZhen)

TuB7

Conference Room 33

Identification and Estimation (1)

Regular Session

Chair: [Sun, Lianming](#) The University of Kitakyushu
Co-Chair: [Godoy, Boris I.](#) Boston University

14:00-14:20, Paper TuB7.1

Trigonometric Basis Functions Based Time-Varying Identification Algorithm with Output Weight Factor

[liu, xinyu](#) Faculty of Environmental Engineering, the University of Kitakyus
[Sun, Lianming](#) The University of Kitakyushu
[Liu, Jianing](#) The University of Kitakyushu

14:20-14:40, Paper TuB7.2

A 2-Step Algorithm for the Estimation of Time-Varying Single Particle Tracking Models Using Maximum Likelihood

[Godoy, Boris I.](#) Boston University
[Lin, Ye](#) Boston University
[Aguero, Juan C.](#) Universidad Santa Maria
[Andersson, Sean](#) Boston University

14:40-15:00, Paper TuB7.3

Modelling for Multi-Phase Batch Processes Using Steady State Identification and Deep Recurrent Neural Network

[Guo, Wei](#) Jiangsu University
[Pan, Tianhong](#) Anhui University
[Li, Zhengming](#) Jiangsu University
[Ding, Shihong](#) Jiangsu University
[wang, mengling](#) East China University of Science and Technology

15:00-15:20, Paper TuB7.4

On Finding Battery Age through Ground Truth Based Data Driven Approach

[Bhatti, Aamer Iqbal Bhatti](#) Capital University of Sciences & Technology, Islamabad
[Farhan, Muhammad Farhan](#) Capital University of Sciences & Technology, Islamabad
[Zafar, Usman](#) Capital University of Science and Technology, Islamabad
[Ahmed, Qadeer](#) The Ohio State University

15:20-15:40, Paper TuB7.5

Identification of Yaw Error Inherent Misalignment for Wind Turbine Based on SCADA Data: A Data Mining Approach

[Bao, Yunong](#) Zhejiang University
[Yang, Qinmin](#) Zhejiang University
[Fu, Lingkun](#) Zhejiang University
[Chen, Qi](#) Zhejiang Windey Co., Ltd
[Cheng, Chenguang](#) Zhejiang Windey Co., Ltd
[Sun, Youxian](#) Zhejiang Univ

15:40-16:00, Paper TuB7.6

A Novel Recursive Linear Estimator Based on the Frisch Scheme

[Massaroli, Stefano](#) The Univeristy of Tokyo
[Miyagusuku, Renato](#) The University of Tokyo
[Califano, Federico](#) University of Twente
[Faragasso, Angela](#) The University of Tokyo
[Yamashita, Atsushi](#) The Univeristy of Tokyo
[Asama, Hajime](#) The Univ. of Tokyo

TuC1

Conference Room 11

Novel Controllers for Mechanical Systems

Invited Session

Chair: [Nonaka, Kenichiro](#) Tokyo City University
Co-Chair: [Celikovskyy, Sergej](#) Academy of Sciences of the Czech Republic
Organizer: [Nonaka, Kenichiro](#) Tokyo City University
Organizer: [Iwase, Masami](#) Tokyo Denki Univeristy
Organizer: [Sekiguchi, Kazuma](#) Tokyo City University

16:20-16:40, Paper TuC1.1

[Optimal Excavation Considering Operation Progress Using Model Predictive Control for Hydraulic Excavators \(I\)](#)

[Eguchi, Yusuke](#) Tokyo City University
[Nonaka, Kenichiro](#) Tokyo City University
[Sekiguchi, Kazuma](#) Tokyo City University
[Suzuki, Katsumasa](#) Tokyo City University

16:40-17:00, Paper TuC1.2

[Robust Adaptive Triple-Step Control for Lane-Keeping of Autonomous Ground Vehicles](#)

[Wang, Yulei](#) Jilin University
[Li, Jingyu](#) Changchun Institute of Optics, Fine Mechanics and Physics, China
[Bian, Ning](#) Dongfeng Technical Center, Dongfeng Motor Corporation
[Li, Kai](#) Jilin University
[Chen, Hong](#) Jilin University, Campus NanLing

17:00-17:20, Paper TuC1.3

[Autonomous Patrol and Invader Detection by Coverage Controlled Quadcopters \(I\)](#)

[Takeuchi, Nagomu](#) Tokyo City University
[naruse, masataka](#) Tokyo City University
[Sekiguchi, Kazuma](#) Tokyo City University
[Nonaka, Kenichiro](#) Tokyo City University

17:20-17:40, Paper TuC1.4

[On the Controller Implementation in the Real Underactuated Walking Robot Model](#)

[Anderle, Milan](#) Institute of Information Theory and Automation of the CAS
[Celikovskiy, Sergej](#) Academy of Sciences of the Czech Republic

17:40-18:00, Paper TuC1.5

[Comparative Experiments of Moving Horizon Estimation Based SLAM in Indoor Environment \(I\)](#)

[Kasahara, Takahiro](#) Tokyo City University
[Tsuno, Koushi](#) Tokyo City University
[Nonaka, Kenichiro](#) Tokyo City University
[Sekiguchi, Kazuma](#) Tokyo City University

18:00-18:20, Paper TuC1.6

[On Using Unscented Kalman Filter Based Multi Sensors Fusion for Train Localization](#)

[Nazaruddin, Yul Yunazwin](#) Institut Teknologi Bandung
[Tamba, Tua](#) Parahyangan Catholic University
[Faruqi, Ismail](#) Institut Teknologi Bandung
[Waluya, M. Brahma](#) Institut Teknologi Bandung
[Widyotriatmo, Augie](#) Bandung Institute of Technology

TuC2

International Conference Room

[Cooperative Control \(2\)](#)

Regular Session

Chair: [Tan, Chang](#) East China Jiaotong University
Co-Chair: [Dou, Liya](#) Shanghai Jiao Tong University

16:20-16:40, Paper TuC2.1

[Distributed Coordinated Control of Spacecraft Formation Flying under Limited Resources](#)

[Shi, Yongxia](#) Beihang University
[Hu, Qinglei](#) Harbin Institute of Technology
[Wang, Chenliang](#) Beihang University
[Shao, Xiaodong](#) Beihang University

16:40-17:00, Paper TuC2.2

[A Distributed Adaptive State Feedback Control Scheme for Output Consensus of Multi-Agent Systems](#)

[Song, Ge](#) University of Virginia
[Tao, Gang](#) Univ. of Virginia
[Tan, Chang](#) East China Jiaotong University

17:00-17:20, Paper TuC2.3

[Distributed Connectivity Control in Low Probability of Detection Operations](#)

[Sims, Brendan](#) Defence Science and Technology Group
[Zamani, Mohammad](#) DSTG
[Hunjet, Robert](#) Defence Science and Technology Group

17:20-17:40, Paper TuC2.4

[Distributed Target Localization and Enclosing Control for Mobile Agents with Bearing Measurements](#)

[Dou, Liya](#) City University of Hong Kong
[Song, Cheng](#) Nanjing University of Science and Technology
[Wang, Xiaofan](#) Shanghai Jiao Tong University
[Liu, Lu](#) City University of Hong Kong
[Feng, Gang](#) City Univ. of Hong Kong

17:40-18:00, Paper TuC2.5

[Robustness of Hierarchical Schemes for Multi-Agent Systems](#)

[Raza, Ali](#) Department of Electrical Engineering, International Islamic Univ

TuC3 Conference Room 21CD

System Theory (3) Regular Session

Chair: [McEneaney, William](#) University of California, San Diego
Co-Chair: [Katayama, Hitoshi](#) Shizuoka University

16:20-16:40, Paper TuC3.1

[Design of a State and Disturbance Reduced-Order Observer for Sampled-Data Underactuated Ships with Constant Disturbance](#)

[Katayama, Hitoshi](#) Shizuoka University

16:40-17:00, Paper TuC3.2

[Employing the Staticization Operator in Conservative Dynamical Systems and the Schrödinger Equation](#)

[McEneaney, William](#) University of California, San Diego
[Zhao, Ruobing](#) University of California, San Diego

17:00-17:20, Paper TuC3.3

[Effects of Imperfect Observation on Quantum State Estimation](#)

[Song, Hongting](#) China Academy of Space Technology
[Xi, Zairong](#) Laboratory of Systems Andcontrol, Institute of Systems Science, A

17:20-17:40, Paper TuC3.4

[Effect of Second-Stage Operation to Rapid Swing-Up Control of a Pendulum under Piecewise Sampled-Data Control with Vibration Manipulation Function](#)

[Kotake, Shigeo](#) Mie University
[Okamura, Daichi](#) Mie University

17:40-18:00, Paper TuC3.5

[On a Time-Varying Delay Model for Asynchronous Sample-And-Hold](#)

[Cantoni, Michael](#) The University of Melbourne
[Fabbro, Mark](#) University of Melbourne
[Kao, Chung-Yao](#) National Sun Yat-Sen University

18:00-18:20, Paper TuC3.6

[A Remark on Zero Placement in Exact Linearization Using Multi-Degree-Of-Freedom PWM-Type Input](#)

[Suzuki, Masayasu](#) Utsunomiya University
[Tamekuni, Kohya](#) Utsunomiya University
[Hirata, Mitsuo](#) Utsunomiya University

TuC4 Conference Room 21AB

Mechatronics (2) Regular Session

Chair: [Kang, Chul-Goo](#) Konkuk University
Co-Chair: [Ueno, Satoshi](#) Ritsumeikan University

16:20-16:40, Paper TuC4.1

[Modeling Analysis for System Parameters of a Vertical Input Shaping Control Apparatus](#)

[Kim, Wonjin](#) Konkuk University
[Shin, Yeji](#) Konkuk University
[Kim, Taehoon](#) Konkuk University
[Kang, Chul-Goo](#) Konkuk University

16:40-17:00, Paper TuC4.2

[Investigation of Lateral Stiffness and Damping in Levitation System with Opposite Electromagnets](#)

[Pilat, Adam](#) AGH University of Science and Technology
[Sikora, Bartłomiej](#) AGH University of Science and Technology
[Żrebiec, Jakub](#) AGH University of Science and Technology

17:00-17:20, Paper TuC4.3

[Improvement of Stability of an Tilt-Controlling Axial Gap Self-Bearing Motor with Single Stator](#)

[Ueno, Satoshi](#) Ritsumeikan University
[Nakazawa, Kanta](#) Ritsumeikan University
[Jiang, Changan](#) Ritsumeikan University

17:20-17:40, Paper TuC4.4

[Stiffness Analysis of Vertical-Axis Wind Turbines Rotors Using Permanent Magnet Attractive Type Passive Magnetic Bearings](#)

[Sayed Mahmoud, Mahmoud](#) Ritsumeikan University
[Ueno, Satoshi](#) Ritsumeikan University
[Jiang, Changan](#) Ritsumeikan University

17:40-18:00, Paper TuC4.5

[Ride Comfort Control System Considering Physiological, Psychological, and Psychological Characteristics: Experimental Study of LIR*](#)

[Ikeda, Keigo](#) Tokai University
[Minowa, Ryosuke](#) Tokai University
[Endo, Ayato](#) Tokai University
[Kato, Hideaki](#) Tokai University

[Narita, Takayoshi](#) Tokai University

18:00-18:20, Paper TuC4.6

[Nonlinear Internal Model Control of EGR Valve](#)

[Tan, Yonghong](#) Shanghai Normal University
[Dong, Ruli](#) Shanghai Normal University
[Tan, Qingyuan](#) University of Windsor
[Chen, Xiang](#) University of Windsor

TuC5 Conference Room 22

Nonlinear Control (3) Regular Session

Chair: [Cheng, Chih-Chiang](#) National Sun Yat-Sen University

Co-Chair: [Lee, Min Cheol](#) Pusan National University

16:20-16:40, Paper TuC5.1

[Design of Adaptive Block Backstepping Controllers for Perturbed Systems with Input Nonlinearity and Dead Zone](#)

[Cheng, Chih-Chiang](#) National Sun Yat-Sen University
[Ju, Song-Hua](#) National Sun Yat-Sen University

16:40-17:00, Paper TuC5.2

[Trajectory Planning and Tracking Control for Positioning of Planar Three-Link Underactuated Manipulator](#)

[Huang, Zixin](#) School of Automation, China University of Geosciences; Hubei Key
[Lai, Xuzhi](#) China University of Geosciences
[Zhang, Pan](#) School of Automation, China University of Geosciences; Hubei Key
[Wu, Min](#) China University of Geosciences

17:00-17:20, Paper TuC5.3

[Efficient Control of Non-Linear System Using Modified Sliding Mode Control](#)

[abbasi, saad jamshed](#) Pusan National University
[Kallu, Karam Dad](#) Pusan National University
[Lee, Min Cheol](#) Pusan National University
[WANG, JIE](#) Pusan National University

17:20-17:40, Paper TuC5.4

[Switching Control of Singularly Perturbed Uncertain Systems Using Finite Frequency Strategy](#)

[Xu, Jing](#) East China University of Science and Technology
[Niu, Yugang](#) East China University of Science & Technology

17:40-18:00, Paper TuC5.5

[Fast Finite-Time Partial State Feedback Stabilization of High-Order Nonlinear Systems with Dynamic Uncertainties](#)

[Sun, Zong-Yao](#) Qufu Normal University
[Xie, Xuejun](#) Qufu Normal University
[Liu, Cai-Yun](#) Qufu Normal University

18:00-18:20, Paper TuC5.6

[On Stability Analysis of Non-Smooth Systems with Density Functions](#)

[Hoshino, Kenta](#) Aoyama Gakuin University

TuC6 Conference Room 32

Predictive Control (2) Regular Session

Chair: [Li, Dewei](#) Shanghai Jiao Tong University

Co-Chair: [Namerikawa, Toru](#) Keio University

16:20-16:40, Paper TuC6.1

[Model Predictive Controller for Path Tracking and Obstacle Avoidance Manoeuvre on Autonomous Vehicles](#)

[Ali Leman, Zulkarnain](#) MJIT KL
[Mohd Hatta, Mohammad Ariff](#) Universiti Teknologi Malaysia
[Zamzuri, Hairi](#) Malaysia-Japan International Institute of Technology University
[Abdul Rahman, Mohd Azizi](#) MJIT KL
[Mazlan, Saiful Amri](#) MJIT KL

16:40-17:00, Paper TuC6.2

[Constrained Data-Driven RMPC with Guaranteed Stability](#)

[yang, Lingyi](#) Shanghai Jiaotong University
[Li, Dewei](#) Shanghai Jiao Tong University
[Xu, Yunwen](#) Shanghai Jiao Tong University
[Xi, Yugeng](#) Shanghai Jiao Tong University

17:00-17:20, Paper TuC6.3

[An Efficient Iterative Approach for Dynamic Output Feedback Robust Model Predictive Control](#)

[HU, JIANCHEN](#) Xian Jiaotong University
[Ding, Baocang](#) Xi'an Jiaotong University
[Wang, Yong](#) Xian Jiaotong University
[Zhao, Jun](#) Zhejiang University
[Xu, Zuhua](#) Zhejiang University
[Zou, Tao](#) Shenyang Institute of Automation, Chinese Academy of Sciences

Yang, Yuangqing	Xi'an Jiaotong University
Ping, Xubin	Xidian University
17:20-17:40, Paper TuC6.4	
<i>Predictive Converter Control Using Real Time Quadratically Constrained Optimization</i>	
Almer, Stefan	ABB Schweiz AG
Frick, Damian	ETH Zürich
Torrisi, Giampaolo	ETH Zurich
Mariethoz, Sebastien	BFH
17:40-18:00, Paper TuC6.5	
<i>Dynamic Matrix Control with Feed-Forward for Target Tracking</i>	
Chen, Minhao	Zhejiang University
Xu, Zuhua	Zhejiang University
Zhao, Jun	Zhejiang University
Shao, Zhijiang	Zhejiang University
TuC7	Conference Room 33
Identification and Estimation (2)	Regular Session
Chair: Nguyen, Dinh Hoa	Kyushu University
Co-Chair: Suh, Young Soo	University of Ulsan
16:20-16:40, Paper TuC7.1	
<i>A Machine Learning-Based Approach for the Prediction of Electricity Consumption</i>	
Nguyen, Dinh Hoa	Kyushu University
Nguyen, Anh Tung	Hanoi University of Science and Technology
16:40-17:00, Paper TuC7.2	
<i>Parameter Estimation of the System Composed of a Piezoelectric Element and Multiple Vibration Modes</i>	
Matsuda, Tatsuki	Kanazawa University
Jikuya, Ichiro	Kanazawa University
Hori, Yasuaki	Kanazawa University
Takagi, Kentaro	Nagoya University
17:00-17:20, Paper TuC7.3	
<i>On the Uniqueness of the Estimate of Innovations Model</i>	
Ikeda, Kenji	Tokushima University
Tanaka, Hideyuki	Hiroshima University
17:20-17:40, Paper TuC7.4	
<i>Gait Analysis Using Foot-Mounted Inertial Sensors and Permanent Magnet</i>	
Dang, Duc Cong	University of Ulsan
Suh, Young Soo	University of Ulsan
17:40-18:00, Paper TuC7.5	
<i>Input Design to Maximize Information for Identification of MIMO Systems</i>	
Häggblom, Kurt E.	Abo Akademi Univ
18:00-18:20, Paper TuC7.6	
<i>A Novel Online Learning RECOC-KFDA Method for Lithologic Identification in Drilling Process</i>	
Chen, Xi	China University of Geosciences
Cao, Weihua	China University of Geosciences, Wuhan, China
Gan, Chao	China University of Geosciences
Wu, Min	China University of Geosciences



2019 12th Asian Control Conference (ASCC)

June 9-12, 2019, Kitakyushu, Fukuoka, Japan

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Last updated on May 29, 2019. This conference program is tentative and subject to change

Technical Program for Wednesday June 12, 2019

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WePPI	Main Hall
Control of Large-Scale Network Systems for Societal System Design, Prof. Jun-Ichi Imura	Plenary Session
Chair: Hirata, Mitsuo	Utsunomiya University
WeA1	Conference Room 11
Advance of FDI and FTC with Applications	Invited Session
Chair: YANG, Hao	Nanjing University of Aeronautics and Astronautics
Co-Chair: Ye, Dan	Northeastern University
Organizer: YANG, Hao	Nanjing University of Aeronautics and Astronautics
Organizer: Jiang, Bin	NUAA
10:20-10:40, Paper WeA1.1	
Decentralized Adaptive Fault-Tolerant Cooperative Control of Multi-UAVs under Actuator Faults and Directed Communication Topology (I)	
Yu, Ziquan	Northwestern Polytechnical University
Zhang, Youmin	Concordia University
Qu, Yaohong	Northwestern Polytechnical University
Su, Chun-Yi	Concordia Univ
MA, Yajie	Nanjing University of Aeronautics and Astronautics
Jiang, Bin	NUAA
10:40-11:00, Paper WeA1.2	
Adaptive Actuator Failure Compensation for Multivariable Systems Using a Multiple-Model Design (I)	
Tan, Chang	East China Jiaotong University
Tao, Gang	Univ. of Virginia
Yang, Hui	East China Jiaotong University
Lu, Rongxiu	East China Jiaotong University
11:00-11:20, Paper WeA1.3	
Detection for Controller-To-Actuator Replay Attack in Cyber-Physical Systems Via Pseudo-Random Code (I)	
Zhang, Tian-Yu	Northeastern University
Ye, Dan	Northeastern University
Long, Yue	Liaoning University
11:20-11:40, Paper WeA1.4	
Fault Detection Based on Variational Autoencoders for Complex Nonlinear Processes (I)	
Wang, Kai	Zhejiang University
Chen, Junghui	Chung-Yuan Christian University
Song, Zhihuan	Zhejiang University
11:40-12:00, Paper WeA1.5	
Optimal Fault-Tolerant Control for a Class of Nonlinear Systems by Using Zero-Sum Differential Game (I)	
Xu, Yuhang	Nanjing University of Aeronautics and Astronautics
YANG, Hao	Nanjing University of Aeronautics and Astronautics
Jiang, Bin	NUAA
WeA2	International Conference Room
Recent Advances on Control Technologies towards Realizing Society 5.0	Invited Session
Chair: Takai, Shigemasa	Osaka University
Co-Chair: Nagahara, Masaaki	The University of Kitakyushu
Organizer: Takai, Shigemasa	Osaka University
Organizer: Nagahara, Masaaki	The University of Kitakyushu
Organizer: Namerikawa, Toru	Keio University
Organizer: Hatanaka, Takeshi	Osaka University
Organizer: Kobayashi, Koichi	Hokkaido University
Organizer: Hayashi, Naoki	Osaka University
10:20-10:40, Paper WeA2.1	
Cooperative Transport of Quad-Rotor by Consensus Algorithm (I)	

Kotani, Kento	Keio University
Namerikawa, Toru	Keio University
10:40-11:00, Paper WeA2.2	
Round-Robin Temporal Scheduling of Exponentially Stabilizing Controllers (I)	
Maheshwari, Chinmay	IIT Bombay
Sukumar, Srikant	IIT Bombay
Chatterjee, Debasish	Indian Institute of Technology, Bombay
11:00-11:20, Paper WeA2.3	
State-Space Realization of Linear Time-Invariant Systems with Maximum Measure of Quality (I)	
Sheriff, Mohammed Rayyan	IIT Bombay
Nagahara, Masaaki	The University of Kitakyushu
11:20-11:40, Paper WeA2.4	
Control Flow Verification for Program Safety Update (I)	
Kishida, Takamitsu	The University of Electro-Communications
Sawada, Kenji	The University of Electro-Communications
Shin, Seichi	The University of Electro-Communications
11:40-12:00, Paper WeA2.5	
Distributed Estimation Over Delayed Sensor Networks with Cyclic Structure (I)	
Adachi, Ryosuke	Hokkaido University
Yamashita, Yuh	Hokkaido University
Kobayashi, Koichi	Hokkaido University
12:00-12:20, Paper WeA2.6	
Decentralized Event-Triggered Control of Discrete-Time Linear Systems Based on Uniformly Ultimate Boundedness (I)	
Kobayashi, Koichi	Hokkaido University
Nakajima, Kyohei	Hokkaido University
Yamashita, Yuh	Hokkaido University
WeA3	Conference Room 21CD
Artificial Intelligence	Regular Session
Chair: Okawa, Yoshihiro	Fujitsu Laboratories Ltd
Co-Chair: Huang, Yu-Lun	National Chiao Tung University
10:20-10:40, Paper WeA3.1	
Classification of Steel Surface Defect Using Convolutional Neural Network with Few Images	
Kim, Min Su	Pohang University of Science and Technology
Park, Taesu	Pohang University of Science and Technology
Park, PooGyeon	Pohang Univ. of Sci. & Tech
10:40-11:00, Paper WeA3.2	
Emotion Regulation Based on Multi-Objective Weighted Reinforcement Learning for Human-Robot Interaction	
Hao, Man	China University of Geosciences
Cao, Weihua	China University of Geosciences, Wuhan, China
Liu, Zhentao	China University of Geosciences
Wu, Min	China University of Geosciences
Yuan, Yan	China University of Geosciences (Wuhan)
11:00-11:20, Paper WeA3.3	
An Improved Bat Algorithm Based on Multi-Subpopulation Search Strategy	
Yang, Bo	China Three Gorges University
Shen, Yanjun	China Three Gorges University
Yu, Hui	China Three Gorges University
11:20-11:40, Paper WeA3.4	
MLoC: A Cloud Framework Adopting Machine Learning for Industrial Automation	
Sun, Wen-Lin	Dept. of Electrical and Computer Engineering, National Chiao Tun
Yeh, Kai-Wei	Dept. of Electrical and Computer Engineering, National Chiao Tun
Huang, Yu-Lun	National Chiao Tung University
11:40-12:00, Paper WeA3.5	
Control Approach Combining Reinforcement Learning and Model-Based Control (I)	
Okawa, Yoshihiro	Fujitsu Laboratories Ltd
Sasaki, Tomotake	Fujitsu Laboratories Ltd./Massachusetts Institute of Technology
Iwane, Hidenao	Fujitsu Laboratories Ltd
WeA4	Conference Room 21AB
Variable-Structure/Sliding-Mode Control (1)	Regular Session
Chair: Fei, Juntao	Hohai University
Co-Chair: Zhao, Dongya	China University of Petroleum

10:20-10:40, Paper WeA4.1	
<i>Adaptive Fuzzy Super-Twisting Sliding Mode Control for Micro Gyroscope</i>	
Fei, Juntao	Hohai University
Feng, Zhilin	Hohai University
10:40-11:00, Paper WeA4.2	
<i>Sliding Mode Control of State-Saturated Systems under Dynamic Event-Triggered Protocol</i>	
Song, Jun	East China University of Science and Technology
Niu, Yugang	East China University of Science & Technology
Chen, Bei	Shanghai University of Engineering Science
11:00-11:20, Paper WeA4.3	
<i>Sliding Mode Control with a Time-Varying Lemniscate-Based Sliding Surface</i>	
Mizoshiri, Taichi	Tokyo Metropolitan University
Mori, Yasuchika	Transportation Systems & Electric Co., Ltd
11:20-11:40, Paper WeA4.4	
<i>Output Feedback Sliding Mode Control for Continuous Stirred Tank Reactors</i>	
Feng, Jiehua	China University of Petroleum (East China)
Ma, Luning	China University of Petroleum
Zhao, Dongya	China University of Petroleum
Yan, Xing-Gang	University of Kent
Spurgeon, Sarah K.	University College London
11:40-12:00, Paper WeA4.5	
<i>Sliding Mode Control of Uncertain Switched Systems with Partly Known Sojourn Probabilities</i>	
Zhao, Haijuan	East China University of Science and Technology
Niu, Yugang	East China University of Science & Technology
Zou, Yuan Yuan	Shanghai Jiao Tong University
WeA5	Conference Room 22
Aerospace Engineering	Regular Session
Chair: Zhang, Ying	Harbin Institute of Technology
Co-Chair: Park, Chan Gook	Seoul National University
10:20-10:40, Paper WeA5.1	
<i>Adaptive Scene-Matching Algorithm Based on Frequency Analysis for Aerial Vehicle</i>	
Choi, Sung Hyuk	Seoul National University
Park, Chan Gook	Seoul National University
10:40-11:00, Paper WeA5.2	
<i>Finite-Element Collocation Based Successive Convexification for Powered Landing Guidance of Reusable Rockets</i>	
Ma, Lin	Zhejiang University
Wang, Kexin	Zhejiang University
Shao, Zhijiang	Zhejiang University
Song, Zhengyu	China Academy of Launch Vehicle Technology
Biegler, Lorenz T.	Carnegie Mellon Univ
11:00-11:20, Paper WeA5.3	
<i>Inscribed Polygon Method for Spacecraft Maneuvering Problem Arising in Single Axis Thruster Configuration</i>	
Iskender, Burak Omer	Nanyang Technological University
Ling, Keck-Voon	Nanyang Technological University
DUBANCHET, VINCENT	Thales Alenia Space
Simonini, Luca	Thales Alenia Space
11:20-11:40, Paper WeA5.4	
<i>Attitude Stabilization for Flexible Spacecraft with Inertia Uncertainty by a Sliding Mode Control Law</i>	
Wu, Ai-Guo	Harbin Institute of Technology (Shenzhen)
Dong, Rui-Qi	Harbin Institute of Technology Shenzhen Graduate School
Zhang, Ying	Harbin Institute of Technology
He, Liang	Shanghai Aerospace Control Technology Institute
11:40-12:00, Paper WeA5.5	
<i>Attitude Control Reconfigurability Analysis of 4-CMGs Pyramid Configuration Spacecraft</i>	
Meng, Qingkai	Nanjing University of Aeronautics and Astronautics
Yang, Hao	Nanjing University of Aeronautics and Astronautics
jiang, bin	College of Automation Engineering, Nanjing University of Aeronautics
WeA6	Conference Room 32
Fault Detection (1)	Regular Session
Chair: Jing, Xing Jian	Hong Kong Polytechnic University
Co-Chair: Martynova, Dina	University of Kaiserslautern
10:20-10:40, Paper WeA6.1	
<i>Locating Bolt-Loosening Faults in Structures Using a Novel Second-Order Output Spectrum Based Method with a Local Tuning Approach</i>	
Li, Quankun	Hong Kong Polytechnic University

[Jing, Xing Jian](#) Hong Kong Polytechnic University

10:40-11:00, Paper WeA6.2

[Kernel Adaptive Filtering Multiple-Model Actuator Fault Diagnostic for Multi-Effectors Aircraft](#)

[Zhu, Peng](#) Air Force Engineering University
[Dong, Wenhan](#) Aeronautics Engineering College, Air Force Engineering Universit
[Mao, Yuhao](#) Aeronautics Engineering College, Air Force Engineering Universit
[Shi, Haoyu](#) Aeronautics Engineering College, Air Force Engineering Universit
[Ma, Xiaoshan](#) Aeronautics Engineering College, Air Force Engineering Universit

11:00-11:20, Paper WeA6.3

[Fault Diagnosis of Chemical Processes Based on a Novel Adaptive Kernel Principal Component Analysis](#)

[geng, zhigiang](#) Beijing University of Chemical Technology
[Liu, Fenfen](#) Beijing University of Chemical Technology
[Han, Yongming](#) Beijing University of Chemical Technology
[ZHU, Qunxiong](#) Beijing University of Chemical Technology
[He, Yan-Lin](#) Beijing University of Chemical Technology

11:20-11:40, Paper WeA6.4

[An Approach to Encrypted Fault Detection of Cyber-Physical Systems](#)

[Martynova, Dina](#) University of Kaiserslautern
[Zhang, Ping](#) University of Kaiserslautern

11:40-12:00, Paper WeA6.5

[Vector Dissipativity-Based Distributed Fault Detection for Plantwide Chemical Processes](#)

[Li, Wangyan](#) University of New South Wales
[Yan, Yitao](#) University of New South Wales
[Bao, Jie](#) The University of New South Wales

WeA7

Conference Room 33

Pattern Recognition

Regular Session

Chair: [Li, Yuan](#) Beijing Institute of Technology
Co-Chair: [Shao, Haibin](#) Shanghai Jiao Tong University

10:20-10:40, Paper WeA7.1

[Assignment of Encryption Data Using Fog Computing Technology in Food Manufacturing Industry](#)

[Sano, Tomonori](#) JPT Co., Ltd
[Uraguchi, Tomotaka](#) PST Inc
[Hiroshi, Deguchi](#) Tokyo Institute of Technology
[Kurata, Tadashi](#) PieCake Inc

10:40-11:00, Paper WeA7.2

[Two-Stream Convolutional Neural Networks with Natural Light and Depth Images for Hand Gesture Recognition](#)

[Yan, Meiyang](#) Beijing Institute of Technology
[Li, Yuan](#) Beijing Institute of Technology

11:00-11:20, Paper WeA7.3

[Hand-Held 3D Dense Map Construction System Based on Improved ICP Algorithm](#)

[Yu, Lei](#) Soochow University
[Fu, Xiaofan](#) Soochow University
[Xu, Haonan](#) Soochow University
[fei, shumun](#) Southeast University

11:20-11:40, Paper WeA7.4

[An RGBD-SLAM with Bi-Directional PnP Method and Fuzzy Frame Detection Module](#)

[Li, Wenfa](#) Shanghai Jiao Tong University
[Li, Dewei](#) Shanghai Jiao Tong University
[Shao, Haibin](#) Shanghai Jiao Tong University
[Xu, Yunwen](#) Shanghai Jiao Tong University

11:40-12:00, Paper WeA7.5

[Spatio-Temporal Broad Learning Networks for Traffic Speed Prediction](#)

[Cui, Ziqiang](#) Zhejiang University
[Zhao, Chunhui](#) Zhejiang University

12:00-12:20, Paper WeA7.6

[Design of a Novel Functional Near-Infrared Spectroscopy System for Human Brain Imaging](#)

[Yaqub, Muhammad Atif](#) Pusan National University
[Zafar, Amad](#) Pusan National University
[Ghafoor, Usman](#) Pusan National University
[Hong, Keum-Shik](#) Pusan National Univ

WeB1

Conference Room 11

Some Developments on Hybrid Systems

Invited Session

Chair: [Toyoda, Mitsuru](#) The Institute of Statistical Mathematics
Co-Chair: [Lu, Jianquan](#) Southeast University
Organizer: [Li, Hai-Tao](#) Shandong Normal University

Organizer: [Lu, Jianquan](#) Southeast University
Organizer: [Liu, Yang](#) Zhejiang Normal University

14:00-14:20, Paper WeB1.1

[Matrix Approach to Reachability of Parallel Interconnected Asynchronous Sequential Machines \(I\)](#)

[Wang, Biao](#) Shandong University
[Feng, June](#) Shandong University

14:20-14:40, Paper WeB1.2

[The Analysis of Local Convergence of Boolean Networks with State-Based Disturbances \(I\)](#)

[Li, Bowen](#) Southeast University
[Lu, Jianquan](#) Southeast University
[Li, Lulu](#) Hefei University of Technology
[Zhong, Jie](#) City University of Hong Kong
[Lou, Jungang](#) Department of Mathematics, Tongji University

14:40-15:00, Paper WeB1.3

[MCMC Based Selection Probability Estimation for Probabilistic Boolean Networks \(I\)](#)

[Toyoda, Mitsuru](#) The Institute of Statistical Mathematics
[Wu, Yuhu](#) Dalian University of Technology

15:00-15:20, Paper WeB1.4

[Event-Triggered Control for Output Regulation of Boolean Control Networks \(I\)](#)

[Jingyi, He](#) Zhejiang Normal University
[Liu, Yang](#) Zhejiang Normal University

15:20-15:40, Paper WeB1.5

[Consensus of Heterogeneous Multiagent Systems Based on Decentralized Event-Triggered Scheme](#)

[Yanna, Shi](#) East China University of Science and Technology
[Yan, Huaicheng](#) East China University of Science and Technology
[Zhou, Ge](#) Shanghai Electromechanical Engineering Institute
[Shao, Changxing](#) Shanghai Electromechanical Engineering Institute
[Zhang, Hao](#) Tongji University
[wang, mengling](#) East China University of Science and Technology

15:40-16:00, Paper WeB1.6

[A Hybrid Aperiodic Sampled-Data Strategy for Distributed Networked Control System](#)

[bansal, kritika](#) National Institute of Technology Delhi
[Mukhija, Pankaj](#) National Institute of Technology, Delhi

WeB3 Conference Room 21CD
Intelligent Control Regular Session

Chair: [Yoneyama, Jun](#) Aoyama Gakuin University
Co-Chair: [Chen, Yong](#) Aeronautics Engineering College, Air Force Engineering University

14:00-14:20, Paper WeB3.1

[Neural Network Based Pulley Friction Compensation for Tension Control of a Cable-Driven Parallel Robot](#)

[Park, Jae-Hyun](#) Chonnam National University
[Piao, Jinlong](#) Chonnam National University
[Kim, Eui-sun](#) Chonnam National University
[Choi, Eunpyo](#) Chonnam National University
[Park, Jong-Oh](#) Chonnam National University
[Kim, Chang-Sei](#) Chonnam National University

14:20-14:40, Paper WeB3.2

[Improved Control Design of Discrete-Time Takagi-Sugeno Fuzzy Systems](#)

[Yoneyama, Jun](#) Aoyama Gakuin University

14:40-15:00, Paper WeB3.3

[Relaxing the Control-Gain Assumptions of DSC Design for Nonlinear MIMO Systems](#)

[Chen, Yong](#) Aeronautics Engineering College, Air Force Engineering University
[Lv, Maolong](#) Delft University of Technology
[Baldi, Simone](#) Delft University of Technology
[Liu, Zongcheng](#) Air Force Engineering University
[Zhang, Wenqian](#) Air Force Engineering University
[Zhou, Yang](#) Air Force Engineering University

15:00-15:20, Paper WeB3.4

[A Unified Analysis Tool in Iterative Learning Control: Composite Energy Function](#)

[Sebastian, Gijo](#) University of Melbourne
[Tan, Ying](#) The University of Melbourne
[Oetomo, Denny](#) University of Melbourne

15:20-15:40, Paper WeB3.5

[Force Observer for an Upper Limb Rehabilitation Robotic Device Using Iterative Learning Control](#)

[Sebastian, Gijo](#) University of Melbourne
[Li, Zeyu](#) The University of Melbourne
[Tan, Ying](#) The University of Melbourne

WeB4 Conference Room 21AB
Variable-Structure/Sliding-Mode Control (2) Regular Session

Chair: [Yan, Xing-Gang](#) University of Kent
 Co-Chair: [Pan, Tianhong](#) Anhui University

14:00-14:20, Paper WeB4.1

Satellite Attitude Control and Power Tracking with VSCMGs During Large-Angle and Agile Attitude Maneuvers

[Yoshihara, Hiroyuki](#) Keio University
[Takahashi, Masaki](#) Keio University

14:20-14:40, Paper WeB4.2

A Novel Super-Twisting Algorithm-Based Direct Power Control Strategy for Doubly Fed Induction Generator

[Han, Yaozhen](#) Shandong Jiaotong University
[Ma, Ronglin](#) Shandong Jiaotong University
[Pan, Weigang](#) Shandong Jiaotong University
[Wang, Changshun](#) Shandong Jiaotong University

14:40-15:00, Paper WeB4.3

Reheat Turbine LFC of Power Systems with Multiple Delays Based on Sliding Mode Techniques

[Onyeka, Adrian E.](#) University of Kent
[Yan, Xing-Gang](#) University of Kent
[Mao, Zehui](#) Nanjing University of Aeronautics and Astronautics
[Zhao, Dongya](#) China University of Petroleum
[Jiang, Bin](#) NUAA

15:00-15:20, Paper WeB4.4

Controller Design for Second-Order Sliding Mode Dynamics with an Upper-Triangular Perturbation

[Mei, Keqi](#) Jiangsu University
[Ding, Shihong](#) Jiangsu University
[Pan, Tianhong](#) Anhui University
[Li, Zhengming](#) Jiangsu University

15:20-15:40, Paper WeB4.5

Dynamic Inversion-Based Sliding Mode Control of a Tilt Tri-Rotor UAV

[Yu, Li](#) National University of Defense Technology
[He, Guang](#) National University of Defense Technology
[Zhao, Shulong](#) School of Mechanics and Automation, National University of Defense Technology
[Wang, Xiangke](#) National University of Defense Technology

WeB5 Conference Room 22
Control Applications for Aerospace Regular Session

Chair: [Sato, Kazuya](#) Saga Univ
 Co-Chair: [Xu, Dabo](#) Nanjing University of Science and Technology

14:00-14:20, Paper WeB5.1

Simple Autonomous Flight Control of a UAV Flying above a UGV Using Onboard Camera Vision

[Hidaka, Kenta](#) Saga University
[Sato, Kazuya](#) Saga Univ

14:20-14:40, Paper WeB5.2

Robust Nonlinear Tracking Control of a 2-DOF Helicopter System

[Steinbusch, Aaron](#) Eindhoven University of Technology
[Reyhanoğlu, Mahmut](#) University of North Carolina at Asheville

14:40-15:00, Paper WeB5.3

Robust Nonlinear Output Feedback Control of a 6-DOF Quadrotor UAV

[Steinbusch, Aaron](#) Eindhoven University of Technology
[Reyhanoğlu, Mahmut](#) University of North Carolina at Asheville

15:00-15:20, Paper WeB5.4

Event-Triggered Attitude Regulation of Rigid Spacecraft with Uncertain Inertia Matrix

[He, Jiafan](#) Nanjing University of Science and Technology
[Su, Youfeng](#) Fuzhou University
[Xu, Dabo](#) Nanjing University of Science and Technology
[Sheng, Andong](#) Nanjing University of Science and Technology

WeB6 Conference Room 32
Fault Detection (2) Regular Session

Chair: [Xue, Yali](#) Nanjing University of Aeronautics and Astronautics
 Co-Chair: [Zhao, Chunhui](#) Zhejiang University

14:00-14:20, Paper WeB6.1

Adaptive Fault-Tolerant Control of a Two-Car High-Speed Train Model with Inter-Car Flexible Link and Traction Actuator Failures

[Mao, Zehui](#) Nanjing University of Aeronautics and Astronautics

[Tao, Gang](#) Univ. of Virginia
[Jiang, Bin](#) NUAA
[Yan, Xing-Gang](#) University of Kent
[Xue, Yali](#) Nanjing University of Aeronautics and Astronautics

14:20-14:40, Paper WeB6.2

[Process Monitoring under Closed-Loop Control with Performance-Relevant Full Decomposition of Slow Feature Analysis](#)

[Zheng, Jiale](#) Zhejiang University
[Zhao, Chunhui](#) Zhejiang University

14:40-15:00, Paper WeB6.3

[Supervisory Fault Tolerant Control for a Class of Semilinear Wave Equations](#)

[Guan, yacun](#) College of Automation Engineering, Nanjing University of Aeronau
[YANG, Hao](#) Nanjing University of Aeronautics and Astronautics
[Jiang, Bin](#) NUAA
[MA, Yajie](#) Nanjing University of Aeronautics and Astronautics

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[Secure State Estimation under Measurement Attacks Using Virtual State in Distributed Observer System](#)

[Sato, Shotaro](#) Keio University
[Namerikawa, Toru](#) Keio University





2019 12th Asian Control Conference (ASCC)

June 9-12, 2019, Kitakyushu, Fukuoka, Japan

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Last updated on May 29, 2019. This conference program is tentative and subject to change

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