2017 11th Asian Control **Conference (ASCC 2017)**

Gold Coast, Australia 17-20 December 2017

Pages 711-1448



IEEE Catalog Number: CFP17832-POD ISBN:

978-1-5090-1574-0

Copyright © 2017 by the Institute of Electrical and Electronics Engineers, Inc. All Rights Reserved

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

*** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

 IEEE Catalog Number:
 CFP17832-POD

 ISBN (Print-On-Demand):
 978-1-5090-1574-0

 ISBN (Online):
 978-1-5090-1573-3

Additional Copies of This Publication Are Available From:

Curran Associates, Inc 57 Morehouse Lane Red Hook, NY 12571 USA Phone: (845) 758-0400

Fax: (845) 758-2633

E-mail: curran@proceedings.com Web: www.proceedings.com



Technical Program of the 2017 Asian Control Conference

Technical Program for Monday December 18, 2017

Arena B

MoAPI

Plenary Session (1) (Plenary Session)	
Chair: Oetomo, Denny Univ. of Melbour	rne
08:30-09:30 MoAF	기.1
Rehabilitation Robots That Cooperate and Motivate*.	
Riener, Robert ETH Zur	rich
MoA1 Roor	n 1
Optimal Control and Optimization (1) (Regular Session) Chair: Ohtsuka, Toshiyuki Kyoto U	lniv
· · · · · · · · · · · · · · · · · · ·	
10:00-10:15 MoA Algebraic Approach to Nonlinear Finite-Horizon Optimal Control Problems with Terminal Constraints, pp. 1-6.	
ori, Tomoyuki Kyoto U	
Kawano, Yu Univ. of Groning	
Ohtsuka, Toshiyuki Kyoto U	Iniv
10:15-10:30 MoA	1.2
Optimal Tracking Control for Discrete-Time Systems by Model-Free Off-Policy Q-Learning Approach, pp. 7-12.	
Li, Jinna Shenyang Univ. of Chemical Te	
Decheng, YUAN SHENYANG Univ. OF CHEMIC	AL
Decheng, YUAN SHENYANG Univ. OF CHEMIC	AL ech
Decheng, YUAN SHENYANG Univ. OF CHEMIC	AL ech ster
Decheng, YUAN SHENYANG Univ. OF CHEMIC Te Ding, Zhengtao The Univ. of Manches	AL ech ster
Decheng, YUAN SHENYANG Univ. OF CHEMIC Te Ding, Zhengtao The Univ. of Manches 10:30-10:45 MoA A Scheduling and Control System for Electric Vehicle	AL ech ster
Decheng, YUAN SHENYANG Univ. OF CHEMIC Te Ding, Zhengtao The Univ. of Manches MoA A Scheduling and Control System for Electric Vehicle Charging at Parking Lot, pp. 13-18.	AL ech ster 1.3
Decheng, YUAN SHENYANG Univ. OF CHEMIC Te Ding, Zhengtao The Univ. of Manches 10:30-10:45 MoA A Scheduling and Control System for Electric Vehicle Charging at Parking Lot, pp. 13-18. Nu, Hao The Univ. of Hong Ko	AL ech ster 1.3
Decheng, YUAN SHENYANG Univ. OF CHEMIC Temporary Ding, Zhengtao The Univ. of Manches 10:30-10:45 MoA A Scheduling and Control System for Electric Vehicle Charging at Parking Lot, pp. 13-18. Nu, Hao The Univ. of Hong Ko	CAL ech ster 1.3
Decheng, YUAN SHENYANG Univ. OF CHEMIC Te Ding, Zhengtao The Univ. of Manches 10:30-10:45 MoA A Scheduling and Control System for Electric Vehicle Charging at Parking Lot, pp. 13-18. Nu, Hao Pang, Grantham The Univ. of Hong Ko The Univ. of Hong Ko The Univ. of Hong Ko The Hong Kong Pol. U	cAL ech ster 1.3 ong ong Iniv
Decheng, YUAN SHENYANG Univ. OF CHEMIC Temporary Ding, Zhengtao The Univ. of Manches 10:30-10:45 MoA A Scheduling and Control System for Electric Vehicle Charging at Parking Lot, pp. 13-18. Nu, Hao Pang, Grantham The Univ. of Hong Ko Pang, Grantham Choy, King Lun Lam, Hoi Yan The Hong Kong Pol. U	cAL ech ster 1.3
Decheng, YUAN SHENYANG Univ. OF CHEMIC Temporary Ding, Zhengtao The Univ. of Manches 10:30-10:45 MoA A Scheduling and Control System for Electric Vehicle Charging at Parking Lot, pp. 13-18. Nu, Hao Pang, Grantham Choy, King Lun Lam, Hoi Yan The Hong Kong Pol. U The Hong Kong Pol. U	DAL ech ster 1.3 Dong Dong Iniv 1.4

milaisiii, Kuliiliiko	JAIST
MoA2	Room 2
Robotics and Motion Control (1) (Regular Sess	sion)
Chair: Ishikawa, Masato	Osaka Univ
10:00-10:15	MoA2.1
Impedance Control of a Mobile Robot with Tumbling Operation, pp. 25-30.	Dual Arms for a
Kitazawa, Takahiro	Tokyo Denki Univ

Kurisu, Masamitsu	Tokyo Denki Univ
Takemasa, Shoutarou	Tokyo Denki Univ
10:15-10:30	MoA2.2

Constrained Motion Tracking Control System for Medical Device, pp. 31-36.

Lau, Jun Yik NATIONAL Univ. OF SINGAPORE

Liang, Wenyu National Univ. of Singapore
Tan, Kok Kiong National Univ. of Singapore

10:30-10:45 MoA2.3

Development of a New Operating System Software for a Hovering-Type Autonomous Underwater Vehicle HOBALIN, pp. 37-42.

Seta, Takahiro National Maritime Res. Inst. Japan National Maritime Res. Inst. Japan Inaba, Shogo National Maritime Res. Inst. Japan Sasano, Masahiko National Maritime Res. Inst. Japan

10:45-11:00 MoA2.4

Actuator Synchronization for Adaptive Motion Generation without Any Sensor or Microprocessor, pp. 43-48.

Masuda, Yoichi Osaka Univ Minami, Yuki Osaka Univ Ishikawa, Masato Osaka Univ

MoA3 Room 3
Autonomous Systems (1) (Regular Session)

Chair: Tian, Yu-Ping Southeast Univ

10:00-10:15 MoA3.1

Anti-Jerk Model Predictive Cruise Control for Connected Electric Vehicles with Changing Road Conditions, pp. 49-54.

Batra, MohitUniv. of Waterloo, OntarioMcPhee, JohnUniv. of WaterlooAzad, Nasser L.Univ. of Waterloo, ON

10:15-10:30 MoA3.2

Similar Formation Algorithm with Biased Measurement Errors, pp. 55-60.

Zong, Siheng Southeast Univ Tian, Yu-Ping Southeast Univ

10:30-10:45 MoA3.3

Waypoint Tracking Predictive Control with Vehicle Speed Variation, pp. 61-66.

Choi, Woo Young Hanyang Univ Kang, Chang Mook Hanyang Univ Lee, Seung Hee Hanyang Univ Chung, Chung Choo Hanyang Univ

10:45-11:00 MoA3.4

Robust Autonomous Flight and Mission Management for MAVs in GPS-Denied Environments, pp. 67-72.

Bi, Yingcai National Univ. of Singapore
Lan, Menglu National Univ. of Singapore
Li, Jiaxin National Univ. of Singapore
Zhang, Kun National Univ. of Singapore

Chen, Ben M.	National Univ. of Singapor
MoA4	Room
Design, Control and Obser Session)	vation of Motion Systems (1) (Invited
Chair: Wang, Hai	Hefei Univ. of Tec
Organizer: Wang, Hai	Hefei Univ. of Tec
Organizer: Zheng, Jinchuan	Swinburne Univ. of Tec
Organizer: Ping, Zhaowu	Hefei Univ. of Tec
10:00-10:15	MoA4.
On Supervised Learning of	of Sliding Observer (I), pp. 73-77.
Wong, Yew Wee	Swinburne Univ. of Tec
Wang, Pengcheng	Swinburne Univ. of Tec
Man, Zhihong	Faculty of Engineering, Swinburn Univ. of Tec
Han, Qinglong	Swinburne Univ. of Tec
Jin, Jiong	Swinburne Univ. of Tec
Zheng, Jinchuan	Swinburne Univ. of Tec
10:15-10:30	MoA4.
Sign Propagation: The Ar Observers (I), pp. 78-83.	t behind the Methodology of Sliding
Wang, Pengcheng	Swinburne Univ. of Tec
Wong, Yew Wee	Swinburne Univ. of Tec
Man, Zhihong	Faculty of Engineering, Swinburn Univ. of Tec
Cao, Zhenwei	Swinburne Univ. of Tec
Zheng, Jinchuan	Swinburne Univ. of Tec
10:30-10:45	MoA4.
Robust Control for Vehicle (I), pp. 84-89.	e Lane-Keeping with Sliding Mode
Du, Hong	Swinburne Univ. of Tec
Man, Zhihong	Faculty of Engineering, Swinburn Univ. of Tec
Zheng, Jinchuan	Swinburne Univ. of Tec
Cricenti, Antonio	Swinburne Univ. of Tec
Zhao, Yong	Lishui CA Steer-By-Wire Tech Co. Lt
Xu, Zhangwei	Lishui CA Steer-By-Wire Tech Co. Lt
Wang, Hai	Hefei Univ. of Tec
10:45-11:00	MoA4.
Motion Control of a Powe Unknown Environments, _I	red Wheelchair Using Eye Gaze in op. 90-95.
Ishizuka, Airi	Keio Uni
Takahashi, Masaki	Keio Uni
yorozu, ayanori	Keio Uni
MoA5	Room
Cyber-Physical Systems: 0	Optimal and Secure Control (1) (Invited

National Univ. of Singapore

National Univ. of Singapore

Southeast Univ

Qin, Hailong

Lai, Shupeng

Session)

Chair: Liang, Jinling

Shanghai Jiao Tong Univ Organizer: Zou, Yuanyuan Organizer: Yuan, Ye Huazhong Univ. of Science and Tech 10:00-10:15 MoA5.1 Rotation-Matrix-Based Attitude Synchronization of Multiple Spacecraft without Velocity Measurements (I), pp. 96-101. Zou, Yao Tsinghua Univ Meng, Ziyang Tsinghua Univ Beihang Univ Zuo, Zongyu 10:15-10:30 MoA5.2 Infinite-Step Opacity of Stochastic Discrete-Event Systems (I), pp. 102-107. Yin, Xiang Univ. Michigan Li, Zhaojian Univ. of Michigan, Ann Arbor Wang, Weilin Monash Univ Li, Shaoyuan Shanghai Jiao Tong Univ 10:30-10:45 MoA5.3 Filtering and L 1-Gain Analysis for 2-D Positive System with Markov Jump Parameters (I), pp. 108-113. Southeast Univ Liang, Jinling Pang, Huan Southeast Univ Wang, Jinling Southeast Univ 10:45-11:00 MoA5.4 Modeling Driver's Car-Following Behavior Based on Hidden Markov Model and Model Predictive Control: A Cyber-Physical System Approach (I), pp. 114-119. Qu, Ting State Key Lab. of Automotive Simulation and Control, Jilin Shuyou, Yu Jilin Univ Jilin Univ zhuqing, shi Chen, Hong Jilin Univ. Campus NanLing MoA6 Room 6 Nonlinear Control (1) (Regular Session) Beijing Jiaotong Univ Chair: Hou, Zhongsheng 10:00-10:15 MoA6.1 Control Lyapunov Function Based Fixed-Time Controller Design for Double-Integrator System, pp. 120-125. Hayashi, Takuya Tokyo Univ. of Science Nakamura, Hisakazu Tokyo Univ. of Science

10:15-10:30 MoA6.2

Data Driven Robust Model Free Adaptive Control for a Class of Nonlinear MIMO Systems with Measurement Noise and Data Dropout, pp. 126-131.

Zhang, Xin Beijing Jiaotong Univ Hou, Zhongsheng Beijing Jiaotong Univ Liu, Shida School of Electronics and Information Engineering, Beijing Jiaoto

10:30-10:45 MoA6.3

A Port-Hamiltonian Approach to Exponential Stabilisation and Disturbance Rejection of a DC-DC Buck Converter with a Nonlinear Load, pp. 132-137.

Tomassini, Juan	Facultad De Ciencias Exactas, Ingeniería Y Agrimensura, Univ	Chen, Ben M.	National Univ. of Singapore
Donaire, Alejandro	Queensland Univ. of Tech	14:00-15:00	MoBPI.:
Junco, Sergio	Univ. Nacional De Rosario		Nicroscopy: A Key to Explore the
Perez, Tristan	Queensland Univ. of Tech	Nanoscale World*.	National Taiwan Uni
10:45-11:00	MoA6.4	Fu, Li-Chen MoB1	Room 7
	nlinear Systems with Unknown	Optimal Control and Optimiza	
Control Directions and Time-		Chair: Aksikas, Ilyasse	Qatar Univ
Rattanamongkhonkun, Kanya	Chiang Mai Univ		<u> </u>
Pongvuthithum, Radom	Chiang Mai Univ	11:00-11:15	MoB1.
Lin, Wei	Case Western Res. Univ		ach for Path Planning of Vehicles y Multiple Stations, pp. 168-173.
Tao, Gang	Univ. of Virginia	Qi, Mingfeng	Beijing Inst. of Tech
		Dou, Lihua	Beijing Inst. of Tech
M - A 7	Arana D	Xin, Bin	Beijing Inst. of Tech
MoA7	Arena B	Chen, Jie	Beijing Inst. of Tech
(1) (Invited Session)	ed Control of Multi-Agent Systems	11:15-11:30	MoB1.2
Chair: Liu, Lu	City Univ. of Hong Kong		Control for a System of Coupled
Organizer: Dong, Yi	Nanjing Univ. of Science and Tech	Parabolic-Hyperbolic PDEs a	
Organizer: Zhang, Hongwei	Southwest Jiaotong Univ	aksikas, ahmed	Univ. of Alberta
10:00-10:15	MoA7.1	Aksikas, Ilyasse	Qatar Univ
A Distributed Optimization M		Hayes, R.E.	Univ. of Alberta
	stem Via Randomized Gradient-	Forbes, J Fraser	Univ. of Alberta
Free Method (I), pp. 144-149.		11:30-11:45	MoB1.3
Pang, Yipeng	Nanyang Tech. Univ		ISO H∞ Control Problem with
Hu, Guoqiang	Nanyang Tech. Univ	Non-Minimum Phase Plants,	
10:15-10:30	MoA7.2	Peters, Andres	Univ. Técnica Federico Santa
Interacting with Multi-Agent Based Shared Control Metho	Systems through Intention Field ds (I), pp. 150-155.	Vargas, Francisco J.	María Univ. Técnica Federico Santa
Shang, Chengsi	Beijing Inst. of Tech		María
Fang, Hao	Beijing Inst. of Tech	11:45-12:00	MoB1.4
Chen, Jie	Beijing Inst. of Tech		d Parameter Optimization of
Zhang, Jia	Beijing Inst. of Tech	Fuzzy Controller in Combusi 186-191.	tion Process of Coke Oven, pp.
10:30-10:45	MoA7.3	Lei, Qi	Central South Univ
Output Synchronization of H	eterogeneous Linear Multi-Agent	Zhu, Di	Central South Univ
Systems (I), pp. 156-161.		Lai, Xuzhi	China Univ. of Geosciences
Lu, Maobin	City Univ. of Hong Kong	Wu, Min	China Univ. of Geosciences
Liu, Lu	City Univ. of Hong Kong		5a 5 5. 5555555555
Feng, Gang	City Univ. of Hong Kong		
10:45-11:00	MoA7.4	MoB2	Room 2
	s for Single-Integrator Multi-	Robotics and Motion Control	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Agent Systems with Uncerta	. ,	Chair: Murao, Toshiyuki	Kanazawa Inst. of Tech
Su, Youfeng	Fuzhou Univ	Co-Chair: HIRATA, Kenji	Nagaoka Univ. of Tech
Shi, Pingfen	Fuzhou Univ	11:00-11:15	MoB2.1
Wang, Xinghu Xu, Dabo	Univ. of Science and Tech. of China Nanjing Univ. of Science and Tech	Collocated Virtual Holonomi Formalism and Their Applica Walking, pp. 192-197.	c Constraints in Hamiltonian ation in the Underactuated
		Celikovsky, Sergej	Acad. of Sciences of the Czech Republic
MoBPI Semi-Plenary Session (1) (Plen	Arena B	Anderle, Milan	Inst. of Information Theory and Automation of the CAS
() () () () () () ()	, 55551511)	-	Automation of the CAC
Chair: Tan, Ying	The Univ. of Melbourne	11:15-11:30	MoB2.2

zheng, dongliang	Shanghai Jiao Tong Univ	MoB4	Room
Wang, Hesheng	Shanghai Jiaotong Univ	•	ation of Motion Systems (2) (Invited
Chen, weidong	Shanghai Jiao Tong Univ	Session)	Hafai Hain af Ta
11:30-11:45	MoB2.3	Chair: Ping, Zhaowu	Hefei Univ. of Teo
Bilateral Control of Nonlinear	Teleoperation for 2DOF Robot	Organizer: Wang, Hai	Hefei Univ. of Teo
	ic Bi-Articular Muscles, pp. 204-	Organizer: Zheng, Jinchuan	Swinburne Univ. of Tec
209.		Organizer: Ping, Zhaowu	Hefei Univ. of Tec
Murao, Toshiyuki	Kanazawa Inst. of Tech	11:00-11:15	MoB4.
Kawai, Hiroyuki HIRATA, Kenji	Kanazawa Inst. of Tech Nagaoka Univ. of Tech		Mode Control for Steer-By-Wire ility Control (I), pp. 239-243.
Fujita, Masayuki	Tokyo Inst. of Tech	Wang, Hai	Hefei Univ. of Tec
	<u> </u>	Shi, Liheng	Hefei Univ. of Teo
11:45-12:00	MoB2.4	Li, Zhenghao	Hefei Univ. of Tec
Improved Frequency Domain Applied to Trajectory Tracking		11:15-11:30	MoB4.
Zhu, Junhan	Beihang Univ	A Control Problem of PM Sy	nchronous Motor by Two-Step
Cai, Zhihao	Beihang Univ	Internal Model Controller D	
Zhao, Jiang	Beihang Univ	Ma, Qingchuan	Hefei Univ. of Tec
Wang, Yingxun	Beihang Univ	Ping, Zhaowu	Hefei Univ. of Tec
		Huang, Yunzhi	Hefei Univ. of Tec
		Lu, Junguo	Shanghai Jiao Tong Uni
MoB3 Autonomous Systems (2) (Regu	Room 3	11:30-11:45	MoB4.
Chair: Huang, Sunan	National Univ. of Singapore		in Contest Environment Using
11:00-11:15	MoB3.1	Circular Geometric Attribut Yu, Hongjun	es, pp. 250-255. Univ. of Adelaid
	trol for Multi-Agent Systems on	Lim, Cheng-Chew	Univ. of Adelaid
Unit Quaternions, pp. 216-221.		Shi, Peng	The Univ. of Adelaid
van Goor, Pieter Cornelis Hendrik	Australian National Univ	Damp, Lloyd	Defence Science and Tech. Grou
Sun, Zhiyong	The Australian National Univ	Kim, Jijoong	Defence Science and Tech. Grou
YU, Changbin	Australian National Univ		
11:15-11:30	MoB3.2	11:45-12:00	MoB4.
Distributed Cooperative Collis		Comparison of Single-Kined of Upper-Body Joint Trackii	ct and Dual-Kinect Motion Capture ng, pp. 256-261.
227.	manned Aerial Vehicles, pp. 222-	Schlagenhauf, Franziska	Georgia Inst. of Tec
Huang, Sunan	National Univ. of Singapore	Sahoo, Prachi	Georgia Inst. of Tec
Teo, Rodney	Temasek Lab. National Univ. of Singapore	Singhose, William E.	Georgia Inst. of Tec
Liu, Wengi	National Univ. of Singapore		
Dymkou, Siarhei Michailovich	National Univ. of Singapore	MoB5	Room
11:30-11:45	MoB3.3	Cyber-Physical Systems: Op Session)	timal and Secure Control (2) (Invited
Review of Coverage Control o	of Multi Unmanned Aerial	Chair: Li, Shaoyuan	Shanghai Jiao Tong Un
Vehicles, pp. 228-232.		Organizer: Zou, Yuanyuan	Shanghai Jiao Tong Uni
Huang, Sunan	National Univ. of Singapore	Organizer: Yuan, Ye	Huazhong Univ. of Science an
Teo, Rodney	Temasek Lab. National Univ. of		Tec
	Singapore	11:00-11:15	MoB5.
Wai Lun, Leong	National Univ. of Singapore, Temasek Lab		on (SCR) Modeling Using Parallel
11:45-12:00	MoB3.4	Yang, Zhenli	Shenhua Guohua (Zhoushar
	ation without Global Information	· ·	Electricity Generation Co., Lt
in Three-Dimensional Space, ¡ Kang, Sung-Mo	pp. 233-238. Gwangju Inst. of Science and	Fu, Haiyuan	Zhejiang Zheneng Changxin Electric Power Generation Co. Lt
-	Tech. (GIST)	Sun, Dihui	Zhejiang Zheneng Changxin Electric Power Generation Co. Lt
Ahn Hyo-Sung			
Ahn, Hyo-Sung Son, Jin-Hee	Gwangju Inst. of Sci & Tech GIST	Zhang, Kangkang	Zhejiang Uni

11:15-11:30	MoB5.2	Organizer: Zhang, Hongwei	Southwest Jiaotong Univ
Cooperative Distributed M	Nodel Predictive Control with N-Step	11:00-11:15	MoB7.1
Accessible Information (I)			f Rendezvous with Connectivity
Gao, Shan	Shanghai Jiao Tong Univ	Preservation of Uncertain N pp. 309-314.	onlinear Multi-Agent Systems (I),
Zheng, Yi	Shanghai Jiao Tong Univ	Dong, Yi	Nanjing Univ. of Science and Tech
Li, Shaoyuan	Shanghai Jiao Tong Univ	Huang, Jie	Chinese Univ. of Hong Kong
11:30-11:45	MoB5.3		
Secure and Privacy Preservative 274-279.	rving Average Consensus (I), pp.	11:15-11:30 Formation Control of Multi-A	MoB7.2 Agent Systems with Direction
Liu, Qipeng	Nanyang Tech. Univ	Adjustment (I), pp. 315-320.	
Ren, Xiaoqiang	HKUST	Tang, Yang	East China Univ. of Science and
Mo, Yilin	Carnegie Mellon Univ		Tech
11:45-12:00	MoB5.4	Li, Zhen	Xi-An Univ. of Posts & Telecommunications
Self-Triggered Distributed Nonholonomic Systems (1	Model Predictive Control of	Miao, Qingying	Shanghai Jiao Tong Univ
Wang, Wanqing	Norwestern Pol. Univ	11:30-11:45	MoB7.3
Li, Huiping	Northwestern Pol. Univ		of Multi-Agent Systems with
Yan, Weisheng	Norwestern Pol. Univ	Antagonistic Interactions (I	
Shi, Yang	Canada	Dehghani Aghbolagh, Hassan	Univ. of Tabriz
, ·g		Zamani, Mohsen	Univ. of Newcastle
		Chen, Zhiyong	The Univ. of Newcastle
MoB6	Room 6	11:45-12:00	MoB7.4
Nonlinear Control (2) (Regu	,	Optimal Asymptotical Track Linear System with Multiplic	ing Via Output Feedback for a
Chair: Bartosiewicz, Zbigniew		Lu, Jieying	South China Univ. of Tech
11:00-11:15	MoB6.1	Li, Junhui	South China Univ. of Tech
On Non-Local Vibrational pp. 286-291.	Stabilization of Nonlinear Systems,	Su, Weizhou	South China Univ. of Tech
Cheng, Xiaoxiao	The Univ. of Melbourne		
Tan, Ying	The Univ. of Melbourne	Mo1Po	Room T1
Mareels, Iven	The Univ. of Melbourne	Poster Sessions Monday (Inte	eractive Session)
11:15-11:30	MoB6.2	15:30-17:00	Sub-session Mo1Po-01
Controller Design for a Clapp. 292-297.	ass of Nonlinear Cascaded Systems,	Application-Based Practitioner I	
Ye, Hui	Jiangsu Univ. of Science and Tech		0.1
Ding, Shihong	Jiangsu Univ	15:30-17:00	Sub-session Mo1Po-02
Zheng, Wei Xing	Western Sydney Univ	Autonomous Vehicles Interactive Session, 23 papers	
Li, Zhengming	Jiangsu Univ	15:30-17:00	Sub-session Mo1Po-03
11:30-11:45	MoB6.3	Adaptive and Robust Control	Sub-session Wolf 0-03
	ive Nonlinear Continuous-Time	Interactive Session, 21 papers	
Systems, pp. 298-302. Bartosiewicz, Zbigniew	Bialystok Univ. of Tech	15:30-17:00	Sub-session Mo1Po-04
11:45-12:00	MoB6.4	Nonlinear Control and System Interactive Session, 20 papers	Гћеогу
Asymptotic Stability of a	Class of Inherently Nonlinear	moradine edecion, 20 papero	
Zhu, Jiandong	edback Control, pp. 303-308. School of Mathematical Sciences,	Mo1Po-01	Room T1
. 3	Nanjing Normal Univ	Application-Based Practition	er Papers (Interactive Session)
Qian, Chunjiang	Univ. of Texas at San Antonio	Chair: Kobayashi, Ryosuke	Yokogawa
		Co-Chair: Cheng, Xiaoxiao	The Univ. of Melbourne
MoB7	Arena B	15:30-17:00	Mo1Po-01.1
	outed Control of Multi-Agent Systems	3 Dimensional Laser Scanne	er Roll Patterning, pp. 332-335.
		Kang, Heeshin	Korea Inst. of Machinery and
(2) (Invited Session)			•
	Nanjing Univ. of Science and Tech Nanjing Univ. of Science and Tech		Materials

Room T1

Observability Singularity of Bat	
on High Order Sliding Mode Dit 338.	ferentiator Approach, pp. 336-
Haidar, Ihab	Supélec-CNRS-Univ. Paris Sud
Barbot, Jean Pierre	ENSEA
Rapaport, Alain	INRA
GHANES, Malek	Centrale Nantes
15:30-17:00	Mo1Po-01.3
An On-Line Process Dead-Time 344.	Estimation Algorithm, pp. 339-
Duffy, Gerrad	INNOVATION[X]
Mills, Peter	INNOVATION[X]
Li, Qin	Griffith Univ
Vlacic, Ljubo	Griffith Univ
15:30-17:00	Mo1Po-01.4
Path Generation of Industrial R Workpiece Using CAD-Based O 346.	
Chung, Seong Youb	Korea National Univ. of Transportation
Song, Il Jae	Wintech Automation
Hwang, Myun Joong	Korea National Univ. of Transportation
15:30-17:00	Mo1Po-01.5
Automatic Assembly Method w. Device, pp. 347-348.	ith the Passive Compliant
PARK, DONG IL	Korea Inst. of Machinery & Materials
Kim, Hwisu	Korea Inst. of Machinery & Materials
Park, Chanhun	Korea Inst. of Machinery & Materials
Choi, Taeyong	Korea Inst. of Machinery & Materials
Kim, Byungin	Korea Inst. of Machinery & Materials
Do, Hyunmin	Korea Inst. of Machinery and Materials
Park, Jongwoo	Korea Inst. of Machinery & Materials
15:30-17:00	Mo1Po-01.6
Predictive Control Using Mirror	
Regasification Plants, pp. 349-35	
Kobayashi, Ryosuke	Yokogawa
Kashiwa, Ryosuke	Yokogawa Electric Corp
Ishimaru, shin	Yokogawa Electric Corp
Uemura, Ryota	YOKOGAWA Electric Coporate
Nakaya, Makoto	Yokogawa Electric Corp
MIURA, SHINTARO	Omega Simulation
15:30-17:00	Mo1Po-01.7
Optimal Control of an Autonom Equipped with the Collective ar 354-359.	
Tran, Minh Quang	Australian Maritime Coll. Univ. of Tasmania
Nguyen, Hung Duc	National Centre for Maritime

Autonomous Vehicles (Interactional Chair: Moriwaki, Katsumi	Data Hat
,	Daido Univ
Co-Chair: Lau, Darwin	Chinese Univ. of Hong Kong
15:30-17:00	Mo1Po-02.
Design of UAV Distributed Air System Based on Scene/Ten	
Cheng, Shanshan	School of Automation Science and Electrical Engineering, Beihang
Wang, Honglun	Beihang Uni
Ji, Hongxia	School of Automation Science and Electrical Engineering, Beihan
Li, Dawei	School of Automation Science and Electrical Engineering, Beihan
15:30-17:00	Mo1Po-02.
Development of a Generic Lowing UAV/OPV, pp. 365-370.	oiter Automation for a Fixed
Krause, Christoph	Tech. Univ. Munic
Holzapfel, Florian	Tech. Univ. Müncher
15:30-17:00	Mo1Po-02.3
Fault-Tolerant Control of Fixe Optimised Control Allocation	
Pedro, Jimoh Olarewaju	Univ. of the Witwatersran
Tshabalala, Thando Busisiwe	Univ. of the Witwatersrand
15:30-17:00	Mo1Po-02.
	gine Driven Hexacopter with ble and Long-Endurance Flight,
Kimoto, Yuki	Tokyo Denki Uni
Iwase, Masami	
	Tokyo Denki Uni
15:30-17:00	
	Mo1Po-02.
Model Reference Adaptive G	Mo1Po-02. uidance for Trajectory Correction Beijing Information Science 8
Model Reference Adaptive G Projectile, pp. 383-387.	Mo1Po-02. uidance for Trajectory Correction Beijing Information Science & Tech. Uni Beijing Information Science &
Model Reference Adaptive Gr Projectile, pp. 383-387. FAN, Jun-fang	Mo1Po-02. uidance for Trajectory Correction Beijing Information Science & Tech. Uni Beijing Information Science & Tech. Uni
Model Reference Adaptive Grand Projectile, pp. 383-387. FAN, Jun-fang Zhao, Guo-ning 15:30-17:00 Disturbance-Compensated In	Mo1Po-02. uidance for Trajectory Correction Beijing Information Science & Tech. Uni Beijing Information Science & Tech. Uni Mo1Po-02.
Model Reference Adaptive Gropectile, pp. 383-387. FAN, Jun-fang Zhao, Guo-ning 15:30-17:00 Disturbance-Compensated In Sight Rate Information, pp. 3	Mo1Po-02. uidance for Trajectory Correction Beijing Information Science & Tech. Uni Beijing Information Science & Tech. Uni Mo1Po-02. Intercept Guidance Using Line-Of 88-393.
Model Reference Adaptive Grojectile, pp. 383-387. FAN, Jun-fang Zhao, Guo-ning 15:30-17:00 Disturbance-Compensated In Sight Rate Information, pp. 3 Nakagawa, Saori Yamasaki, Takeshi	Mo1Po-02. uidance for Trajectory Correction Beijing Information Science & Tech. Uni Beijing Information Science & Tech. Uni Mo1Po-02. Intercept Guidance Using Line-Of 88-393. National Defense Acar
Model Reference Adaptive Gropectile, pp. 383-387. FAN, Jun-fang Zhao, Guo-ning 15:30-17:00 Disturbance-Compensated In Sight Rate Information, pp. 3 Nakagawa, Saori Yamasaki, Takeshi Takano, Hiroyuki	Mo1Po-02.: uidance for Trajectory Correction Beijing Information Science & Tech. Uni Beijing Information Science & Tech. Uni Mo1Po-02.: ntercept Guidance Using Line-Of 88-393. National Defense Acad. of Japan
Model Reference Adaptive Grojectile, pp. 383-387. FAN, Jun-fang Zhao, Guo-ning 15:30-17:00 Disturbance-Compensated In Sight Rate Information, pp. 3 Nakagawa, Saori Yamasaki, Takeshi	Mo1Po-02. uidance for Trajectory Correction Beijing Information Science & Tech. Uni Beijing Information Science & Tech. Uni Mo1Po-02. ntercept Guidance Using Line-Of 88-393. National Defense Acad. of Japan National Defense Acad. of Japan
Model Reference Adaptive Gropectile, pp. 383-387. FAN, Jun-fang Zhao, Guo-ning 15:30-17:00 Disturbance-Compensated In Sight Rate Information, pp. 3 Nakagawa, Saori Yamasaki, Takeshi Takano, Hiroyuki	Mo1Po-02. uidance for Trajectory Correction Beijing Information Science & Tech. Uni Beijing Information Science & Tech. Uni Mo1Po-02. Intercept Guidance Using Line-Off 88-393. National Defense Acad. of Japan National Defense Acad. of Japan National Defense Acad. of Japan
Model Reference Adaptive Gropectile, pp. 383-387. FAN, Jun-fang Zhao, Guo-ning 15:30-17:00 Disturbance-Compensated In Sight Rate Information, pp. 3 Nakagawa, Saori Yamasaki, Takeshi Takano, Hiroyuki Yamaguchi, Isao 15:30-17:00	Mo1Po-02. uidance for Trajectory Correction Beijing Information Science & Tech. Uni Beijing Information Science & Tech. Uni Mo1Po-02. Intercept Guidance Using Line-Off 88-393. National Defense Acad. of Japan Mo1Po-02.
Model Reference Adaptive Gropectile, pp. 383-387. FAN, Jun-fang Zhao, Guo-ning 15:30-17:00 Disturbance-Compensated In Sight Rate Information, pp. 3 Nakagawa, Saori Yamasaki, Takeshi Takano, Hiroyuki Yamaguchi, Isao 15:30-17:00 Optimal Path Planning Utilizii.	Mo1Po-02.: uidance for Trajectory Correction Beijing Information Science & Tech. Uni Beijing Information Science & Tech. Uni Mo1Po-02.: ntercept Guidance Using Line-Of 88-393. National Defense Acad. of Japan Mo1Po-02.: ng Dissipation Function Based of Nat Rovers, pp. 394-399.
Model Reference Adaptive Gropectile, pp. 383-387. FAN, Jun-fang Zhao, Guo-ning 15:30-17:00 Disturbance-Compensated It Sight Rate Information, pp. 3 Nakagawa, Saori Yamasaki, Takeshi Takano, Hiroyuki Yamaguchi, Isao 15:30-17:00 Optimal Path Planning Utilizit Terrain Elevation Map for Lui	National Defense Acad. National Defense Acad. of Japan National Defense Acad. of Japan National Defense Acad. of Japan Mo1Po-02.

Mo1Po-02

15:30-17:00	Mo1Po-02.8	Xie, Lihua	Nanyang Tech. Univ
UAV Path Following Based of Guidance Approach, pp. 400	on BLADRC and Inverse Dynamic -405.	Yin, Chun	Univ. of Electronic Science and Tech. of China
Wu, Jianfa	Beihang Univ	15:30-17:00	Mo1Po-02.16
Wang, Honglun	Beihang Univ		saster by Telemetric Sensing Node
Li, Na	Unmanned System Res. Inst.	Network System, pp. 447-4	
C., Zikana	Beihang Univ	Vu Van, Khoa	Ritsumeikan Univ
Su, Zikang	Beihang Univ	Nakano, Takeyoshi	Ritsumeikan Univ Ritsumeikan Univ
15:30-17:00	Mo1Po-02.9	Homma, Masanori Takayama, Shigeru	Ritsumeikan Univ
	ovement for a Quarter Car Semi- Via State-Feedback Controller, pp.		
406-411.	via State-i eedback Controller, pp.	15:30-17:00	Mo1Po-02.17
Yakub, Fitri	Tokyo Metropolitan Univ	Parameterization of a Cat	ases of ADAS Safety by FOT Based
Mori, Yasuchika	Tokyo Metropolitan Univ	Zhou, Jinwei	Johannes Kepler Univ
Muhamad, Pauziah	Univ. Teknologi Malaysia	Del Re, Luigi	Johannes Kepler Univ. Linz
Che Daud, Zul Hilmi	Univ. Teknologi Malaysia	15:30-17:00	Mo1Po-02.18
Abd Fattah, Abdul Yasser	Univ. Teknologi Malaysia	-	on Algorithm for Autonomous Map
15:30-17:00	Mo1Po-02.10		ot Using Kinect, pp. 459-464.
Investigation of Basis Func	tions in Boundary Modeling for	Kameyama, Naoki	Tokyo Denki Univ
Automotive Engine, pp. 412-		Hidaka, Koichi	Tokyo Denki Univ
yamazaki, masahiro	Tokyo Denki Univ	15:30-17:00	Mo1Po-02.19
Serizawa, Takuya	Tokyo Denki Univ	-	n Based Autonomous Driving
Nagaosa, Katsuaki	Tokyo Denki Univ	Platform for an Electric W	
Iwase, Masami	Tokyo Denki Univ	Choi, Jung-Hae	Daegu Univ
15:30-17:00	Mo1Po-02.11	Choi, Byung-Jae	Daegu Univ
Energy Conserving Vehicle Equipped with Multiple Driv	Motion Control for Electric Vehicle re Motors, pp. 418-423.	15:30-17:00	Mo1Po-02.20
Oda, Takatsugu	Tokyo City Univ		Notion Planning Considering Shared of Operation Time, pp. 467-472.
Nonaka, Kenichiro	Tokyo City Univ	Kurou, Jun	Keio Univ
Sekiguchi, Kazuma	Tokyo City Univ	yorozu, ayanori	Keio Univ
15:30-17:00	Mo1Po-02.12	Takahashi, Masaki	Keio Univ
	od of Vehicle Based on Lane	15:30-17:00	Mo1Po-02.21
Highway, pp. 424-429.	tance System Using a Camera on	A Lane-Change Maneuver	of Automated Vehicles for Highways with Multiple Lanes, pp.
Nguyen, Van Quang	Inje Univ	473-478.	
Seo, Changjun	Electronic Engineering, Inje Univ	Shiomi, Yuko	Waseda Univ
Kim, HeungSeob	Inje Univ	Wasa, Yasuaki	Waseda Univ
Boo, KwangSuck	Inje Univ	Uchida, Kenko	Waseda Univ
15:30-17:00	Mo1Po-02.13	15:30-17:00	Mo1Po-02.22
Sensor Anomaly Detection Autonomous Ground Vehicl	and Recovery in a Nonlinear e Model, pp. 430-435.	Modal Analysis for Lateral pp. 479-484.	Dynamics of a High-Speed Train,
Lampiri, Evangelia	Univ. of Tech. Sydney (UTS)	Kang, Chul-Goo	Konkuk Univ
15:30-17:00	Mo1Po-02.14	Ha, Manh-Tuan	Konkuk Univ
Distributed Group Consens Heterogeneous Multi-Agent		Cho, Yon-Ho	Hyundai-Rotem Co
Communication Topology, p		15:30-17:00	Mo1Po-02.23
Feng, Yuanzhen	Nanjing Univ. of Posts and Telecommunications	pp. 485-488.	anagement - a Simulation Study -,
Zheng, Wei Xing	Western Sydney Univ	Moriwaki, Katsumi	Daido Univ
15:30-17:00	Mo1Po-02.15		
Dynamic Mission Allocation		Mo1Po-03	Room T1
Multiple Rotary-Wing UAVs	, pp. 441-446.	Adaptive and Robust Contr	ol (Interactive Session)
Zhu, Bing	Beihang Univ	Chair: Masuda, Shiro	Tokyo Metropolitan Univ

Co-Chair: Ha, Q.P.	UTS		ontrol for Head-Angle and Velocity
15:30-17:00	Mo1Po-03.1	Tracking of Planar Snake	
	tation to Inexperienced Situations	Mukherjee, Joyjit	Indian Inst. of Tech. Delh
	Action Control Individualities, pp.	Kar, Indra Narayan	Indian Inst. of Tech. Delh Indian Inst. of Tech. Delh
489-494.	Takai Hain	Mukherjee, Sudipto	indian inst. of Tech. Deir
Yoshida, Yu	Tokai Univ	15:30-17:00	Mo1Po-03.1
Mikami, Yutaro	Tokai Univ		he Flying Wing UAV with Unknown
Suzuki, Masakazu	Tokai Univ	Time-Varying Disturband	***
15:30-17:00	Mo1Po-03.2	Xi, Ao	Monash Uni
<i>Multivariable MRAC for a l</i> <i>Interactor Matrix</i> , pp. 495-	Quadrotor UAV with a Non-Diagonal 500.	ZHAO, YIJIN	Commercial Aircraft Corp. o Chin
Sheng, Yu	Univ. of Virginia	15:30-17:00	Mo1Po-03.1
Tao, Gang	Univ. of Virginia		rder Sliding Mode Control Design for
15:30-17:00	Mo1Po-03.3	a Small-Scale Magnetic I Banza, Arnold Tshimanga	Levitation Platform, pp. 549-554. Univ. of Melbourn
	ral Consensus Tracking Control for a Feedback Multi-Agent Systems, pp.	Chen, Qiang	Coll. of Mechatronics Engineerin and Automation, National Ur
Shang, Yun	Qingdao Univ	15:30-17:00	Mo1Po-03.1
Chen, Bing	Qingdao Univ	A Study on Robust Electi	romagnetic Shunt Damping by
Lin, Chong	Qingdao Univ		-R Shunt Circuit Based on \$mu\$-
Zhang, Li	Qingdao Univ	<i>Synthesis</i> , pp. 555-560.	
15:30-17:00	Mo1Po-03.4	Ikegame, Toru	Nagoya Un
	ult-Tolerant Flight Control System	Takagi, Kentaro	Nagoya Un
	ontrol and Pilot's Pitch Control, pp.	15:30-17:00	Mo1Po-03.1
507-512.		A Study on Robust Contr Using SMCSPO, pp. 561-5	rol Method of Underwater Vehicle
Takase, Ryoichi	The Univ. of Tokyo	Kim, Hyun Hee	Pusan National Un
Entzinger, Jorg Onno	The Univ. of Tokyo	Won, Jong Seob	Jeonju Un
Suzuki, Shinji	The Univ. of Tokyo	Cho, Hyeon Jin	Agency for Defense Developmen
15:30-17:00	Mo1Po-03.5	Hwang, Jun Ho	Agency for Defense Developmen
	ametrized Controller Design Based	Lee, Min Cheol	Pusan National Un
on Minimum Variance Eva	• •		
Okada, Shogo	Tokyo Metropolitan Univ	15:30-17:00	Mo1Po-03.1
Masuda, Shiro	Tokyo Metropolitan Univ		troller Design for TRMS, pp. 565-569.
15:30-17:00 Pre-Filter Design for Non-	Mo1Po-03.6 -Iterative Data-Driven Controller	Rao, Vidya	Manipal Inst. of Tech. Manipa Un
	Closed-Loop Step Response Data,	George, V.I	Manipal Inst. of Tech. Manip Un
Kajiwara, Ryota	Tokyo Metropolitan Univ	Kamath, Sureka	Manipal Inst. of Tech. Manipal
Masuda, Shiro	Tokyo Metropolitan Univ	Objektive di Objektive e ele	Un
Matsui, Yoshihiro	National Inst. of Tech. Tokyo Coll	Chokkadi, Shreesha	Manipal Inst. of Tec
15:30-17:00	Mo1Po-03.7	15:30-17:00	Mo1Po-03.1
	n Controller Parameters Tuning of		ic Output-Feedback Protocol for H∞ i-Agent Systems, pp. 570-575.
Tsukui, Fumiya	Tokyo Metropolitan Univ	Wang, Dong	Dalian Univ. of Ted
Masuda, Shiro	Tokyo Metropolitan Univ	guo, shixin	Dalian Univ. of Tec
		Lian, Jie	Dalian Univ. of Tec
15:30-17:00	Mo1Po-03.8	Wang, Wei	Dalian Univ. of Tec
Attitude Control Law for R State Observer, pp. 531-53	Reentry Vehicle Based on Extended 36.	15:30-17:00	Mo1Po-03.1
Quan, Shenming	Harbin Inst. of Tech		ollers for Interval Systems and ametric Uncertainties, pp. 576-581.
Chao, Tao	Harbin Inst. of Tech	Mihailescu-Stoica, Dinu	TU Darmsta
Wang, Songyan	Harbin Inst. of Tech	Schrödel, Frank	IAV Gmb
Yang, Ming	Harbin Inst. of Tech		Tech. Univ. Darmsta
		Adamy, Juergen	rech. Only. Damista

15:30-17:00	Mo1Po-03.17	15:30-17:00	Mo1Po-04.3
Effectiveness of Higher Order Controllers for Uncertain Systems, pp. 582-587.		Disturbance Observer-Enhanced Nonlinear Dynamic Inversion Control for Unmanned Helicopter Path Tracking,	
Tada, Tomoki	Kyushu Inst. of Tech	623-628.	D. "
Izumiguchi, Yuya	Kyushu Inst. of Tech	Chen, Nanyu	Beihang Univ
Sebe, Noboru	Kyushu Inst. of Tech	Zhou, Yaoming	Beihang Univ
15:30-17:00	Mo1Po-03.18	Jun, Huang	Beihang Univ
Strong Stability Based Rob	ust Sliding Mode Control, pp. 588-	Yang, Haipeng	Beihang Univ
593.	, , , , , , , , , , , , , , , , , , ,	15:30-17:00	Mo1Po-04.4
Argha, Ahmadreza	Univ. of Tech. Sydney		rmance Control of Individual
Li, Li	Univ. of Tech. Sydney		with Static VAR Compensator
Ha, Q.P.	UTS	<i>Controllers</i> , pp. 629-634.	
Su, Steven Weidong	Univ. of Tech. Sydney	Zhou, Jun	Hohai Univ
Nguyen, Hung T.	Univ. of Tech. Sydney	Wang, Cui	Hohai Univ
15:30-17:00	Mo1Po-03.19	Qian, Huimin	Hohai Univ
	tain Processes of Thermal Power	15:30-17:00	Mo1Po-04.5
	Soft Characteristic, pp. 594-599. Hanoi Univ. of Science and Tech	Nonlinear Model Predictive Space Manipulator, pp. 635	e Control of a Planar Three-Link 5-640.
Nguyen Van, Manh	Hanoi Univ. of Science and Tech	Kayastha, Sharmila	Univ. of New South Wales
		Shi, Lingling	Univ. of New South Wales
15:30-17:00	Mo1Po-03.20	Katupitiya, Jayantha	Univ. of New South Wales
H∞ Based State Feedback		Pearce, Garth	Univ. of New South Wales
pp. 600-605.	stem with Variable Time Delays,	15:30-17:00	Mo1Po-04.6
Al-Wais, Saba	Inst. for Intelligent Systems Res. and Innovation, Waurn		ol of a Three-Dimensional Revolute
Lee, Tae H.	Deakin Univ	Hoffman, Derek	Embry-Riddle Aeronautical Univ
Shanmugam, Lakshmanan	Kunsan National Univ	Reyhanoglu, Mahmut	Univ. of North Carolina at
Abdi, Hamid	Deakin Univ	rtoynanogia, maiimat	Asheville
Nahavandi, Saeid	Deakin Univ	15:30-17:00	Mo1Po-04.7
15:30-17:00	Mo1Po-03.21		ust Domain of Attraction for
	a Sliding Mode Control of a Bi-	Uncertain Polynomial Syst	
Steerable Car, pp. 606-611.		Pursche, Thomas	Univ. of Wuppertal
Hamerlain, Faiza	LAGIS	Clauss, Roland	Univ. of Wuppertal
		Tibken, Bernd	Wuppertal Univ
Mo1Po-04	Room T1	15:30-17:00	Mo1Po-04.8
Nonlinear Control and System	,	Attractors through Closure	of Limit Cycles in Chaotic e of Orbits, pp. 653-658
Chair: Guo, Hai-jiao	Tohoku Gakuin Univ	Kumar, Aravind	Indian Inst. of Tech. Madras
Co-Chair: chen, yong	Univ. of Electronic Science and	Ali, Shaikh Faruque	Indian Inst. of Tech. Madras
	Tech. of China	Friswell, Michael	Coll. of Engineering Swansea Univ
15:30-17:00	Mo1Po-04.1	Arunachalakasi, Arockiarajan	
Time-Delay Control Based Dynamics, pp. 612-616.	on a Nonlinear Vehicle Lateral	15:30-17:00	Mo1Po-04.9
Cho, Soonwan	Pohang Univ. of Science and Tech		sis for Unknown Affine Nonlinear
Baek, jaemin	Pohang Univ. of Science and Tech	Discrete-Time Systems, pp	p. 659-664.
Hong, Sangseok	Mechatronics & Manufacturing	Xiong, Shuangshuang	Advanced Control Systems Lab
5, 5	Tech. Center, Samsung Electron	Jin, Shangtai	Beijing Jiaotong Univ
Lee, Hyoung woong	POSTECH, Electrical Engineering	Hou, Zhongsheng	Beijing Jiaotong Univ
Kim, Changhyun	Pohang Univ. of Science and Tech	15:30-17:00	Mo1Po-04.10
HAN, Soohee	Pohang Univ. of Science and Tech	Evaluation of Tracking Per	rformance of NPID Double
15:30-17:00	Mo1Po-04.2	Hyperbolic Controller Desi	ign for XY Table Ball-Screw Drive
Discrete-Time Nonlinear At Spacecraft, pp. 617-622.	titude Tracking Control of	System, pp. 665-670. Junoh, Sahida	Univ. Teknikal Malaysia Melaka
Ikeda, Yuichi	Shonan Inst. of Tech		(UTeM)
moda, i dioiii	Chonan mat. or recti		

Abdullah, Lokman	Univ. Teknikal Malaysia Melaka (UTeM)	Passivity-Based Conditional S Nonlinear Benchmark System	Servo-Mechanism Design for a n, pp. 711-716.
Syed Salim, Syed Najib	Univ. Teknikal Malaysia Melaka (UTeM)	Azhar, Muhammad Aatif Mobeen	• •
Jamaludin, Zamberi	Univ. Teknikal Malaysia Melaka	Memon, Attaullah Y.Memon	Pnec, Nus
Anana Nur Amira	(UTeM) Univ. Teknikal Malaysia Melaka	15:30-17:00	Mo1Po-04.1
Anang, Nur Amira	(UTeM)		dge Cranes: A Simplified IDA-
Tsung Heng, Chiew	Univ. Teknikal Malaysia Melaka	<i>PBC Approach</i> , pp. 717-722.	5
D . 7 .	(UTeM)	Li, Xue	Peking Univ
Retas, Zain	Pol. Merlimau	Geng, Zhiyong	Peking Univ
15:30-17:00	Mo1Po-04.11	15:30-17:00	Mo1Po-04.2
Adaptive Twisting Silding N Unmanned Aerial Vehicles,	Mode Control for Quadrotor pp. 671-676.	Closed-Loop PDa -Type Itera Fractional Nonlinear Systems	with Time-Delay, pp. 723-728.
Hoang, Van Truong	Univ. of Tech. Sydney	Yu, Chenchen	Beijing Univ. of Chemical Tecl
Phung, Manh Duong	Univ. of Tech. Sydney	Wang, Jing	Beijing Univ. of Chemical Tecl
Ha, Q.P.	UTS		
15:30-17:00	Mo1Po-04.12	MoC1	Room ·
	t Control for Nonlinear Dynamic It and External Disturbances, pp.	Collective Intelligent Control in (Invited Session)	Multi-Agent Dynamical Systems
Guo, Bin	Univ. of Electronic Science and	Chair: Yu, Wenwu	Southeast Uni
Ouo, biii	Tech. of China	Organizer: Yu, Wenwu	Southeast Uni
chen, yong	Univ. of Electronic Science and	Organizer: Wen, Guanghui	Southeast Uni
	Tech. of China	Organizer: Fu, Junjie	Peking Uni
15:30-17:00	Mo1Po-04.13	17:00-17:15	MoC1.
Improved Linear Sliding Mo through Adding Terminal S WANG, Yanmin	ode Controller of Buck Converter liding Mode, pp. 682-686. Harbin Inst. of Tech	Robust Consensus Tracking for Agent Systems with Disturba Hong, Huifen	or Heterogeneous Linear Multi- nces (I), pp. 729-734. Southeast Uni
15:30-17:00	Mo1Po-04.14	Yu, Wenwu	Southeast Univ
A Random Opinion Formati	ion Model Over Signed Networks,	Wen, Guanghui	Southeast Uni
pp. 687-692.		Fu, Junjie	Peking Uni
Xing, Yu	Acad. of Mathematics and Systems Science, Chinese Acad.	17:15-17:30	MoC1.:
	of S	Stability Analysis and Synthe Dimensional Switched Positiv	
Fang, Haitao	Acad. of Mathematics and	Wang, Jinling	Southeast Uni
	Systems Science, Chinese Acad. Of	Liang, Jinling	Southeast Uni
15:30-17:00		17:30-17:45	MoC1.
	Mo1Po-04.15 s of Second and Third Order	Distributed Leader-Following	
Repetitive Controllers, pp. 6		Nonlinear Multi-Agent Systen	
Guo, Hai-jiao	Tohoku Gakuin Univ	shi, yi	Inst. of Automation, Jiangna
Ishihara, Tadashi	Fukushima Univ	Yin, Yanyan	Univ. Wuxi, 214122, Chiı Curtin Univ
15:30-17:00	Mo1Po-04.16	Liu, Cheng-Lin	Jiangnan Uni
A Non-Smooth Stochastic I		Liu, Fei	Jiangnan Univ
Relationship with Viscosity	• • • • • • • • • • • • • • • • • • • •	17:15-18:00	MoC1.4
Nishimura, Yuki Hoshino, Kenta	Kagoshima Univ Aoyama Gakuin Univ	Cooperative Control in the Pr	
	·	Reciprocity, pp. 745-749.	
15:30-17:00	Mo1Po-04.17	zhang, wentao	Tianjin Uni
	nt System for Strategic Prosumer Iding Algorithm for Prosumer	Zuo, Zhiqiang	Tianjin Uni
Aggregators, pp. 705-710.		Wang, Yijing	Tianjin Uni
Macana, Carlos Andres	Univ. of New South Wales		
Pota, Hemanshu R.	Univ. of New South Wales	MoC2	Room 2
	Mo1Po-04.18	Robotics and Motion Control (3	N (D

Chair: Yin, Chenkun	Beijing Jiaotong Univ	Huo, Xin	Harbin Inst. of Tech
17:00-17:15	MoC2.1	17:15-18:00	MoC3.4
Modeling of Axial Drift of a Gyroscope, pp. 750-753.	Single Gimbal Control Moment	Smooth Trajectory General Object with an Aerial Vehic	tion for Soft Catching a Flying le, pp. 790-794.
lee, sangdeok	Chungnam National Univ	Lee, Seungjoon	Seoul National Univ
Jung, Seul	Chungnam National Univ	Seo, Hoseong	Seoul National Univ
17:15-17:30	MoC2.2	Choi, Seungwon	Seoul National Univ
	Snake-Like Robot with Controllable	Kim, Hyoin	Seoul National Univ
Side-Thrust Links, pp. 754-7		Kim, H Jin	Seoul National Univ
Takagi, Yuki	Osaka Univ		
Sueoka, Yuichiro	Osaka Univ	MoC4	Room
Ishikawa, Masato	Osaka Univ	Signal Processing (Regular S	
Osuka, Koichi	Osaka Univ. Japan	Chair: Petersen, Ian R.	Australian Defence Force Acad
17:30-17:45	MoC2.3	17:00-17:15	MoC4.
	for Unmanned Vehicles Based on xploring Random Tree, pp. 760-765.		d Rayleigh Filter for Underwater
gong, haijun	Beijing Jiaotong Univ	Radhakrishnan, Rahul	Indian Inst. of Tech. Patha
Yin, Chenkun	Beijing Jiaotong Univ	Bhaumik, Shovan	Indian Inst. of Tech. Patha
zhang, fang	Beijing Zhixingzhe Tech. Limited	Tomar, Nutan Kumar	Indian Inst. of Tech. Patha
Hou, Zhongsheng	Beijing Jiaotong Univ	<u>-</u>	
Zhang, Ruikun	Qingdao Univ. of Science and	17:15-17:30	MoC4.2
17:15-18:00	Tech MoC2.4		imation in Active Noise Control d Step Size Algorithm, pp. 801-806.
	ion of a 2-Link Flexible Serial Arm	Kim, Dong Woo	POSTECH
Testbed for 3D Spatial Mov	vements, pp. 766-771.	Park, PooGyeon	Pohang Univ. of Sci. & Tech
Kivila, Arto	Georgia Inst. of Tech	17:30-17:45	MoC4.3
Burgin, Jonah	Georgia Inst. of Tech		-Markovian Single Qubit System,
Book, Waye	Georgia Inst. of Tech	pp. 807-811.	
Singhose, William E.	Georgia Inst. of Tech	Xue, Shibei	Shanghai Jiao Tong Univ
		Nguyen, Thien	Australian National Univ
MoC3	Room 3	Petersen, lan R.	Australian Defence Force Acad
Autonomous Systems (3) (R	,	17:15-18:00	MoC4.4
Chair: Takeshi, Nishida	Kyushu Inst. of Tech	Bias Compensation Based	
17:00-17:15	MoC3.1	Output Noises, pp. 812-816.	MISO System with Input and
Towards the Realtime San for Quadcopters, pp. 772-77	pling-Based Kinodynamic Planning 7.	Wu, Ai-Guo	Harbin Inst. of Tech. Shenzher Graduate Schoo
Lan, Menglu	National Univ. of Singapore	Qi, Wen-Nian	Harbin Inst. of Tech. Shenzher
Lai, Shupeng	National Univ. of Singapore	α, π	Graduate Schoo
Chen, Ben M.	National Univ. of Singapore	Dong, Rui-Qi	Harbin Inst. of Tech. Shenzher
17:15-17:30	MoC3.2		Graduate Schoo
	Parallel Gripper Using Reformed		
Magnetorheological Fluid, p		MoC5	Room
Tsugami, Yusuke	Kyushu Inst. of Tech	Cyber-Physical Systems: Op	timal and Secure Control (3) (Invited
barbie, thibault Tadakuma, Kenjiro	Kyushu Inst. of Tech Tohoku Univ	Session)	
Takeshi, Nishida	Kyushu Inst. of Tech	Chair: Wu, Jing	Shanghai Jiao Tong Univ
·		Organizer: Zou, Yuanyuan	Shanghai Jiao Tong Univ
17:30-17:45 Modelling and Control of a	Quadrotor Equipped with an	Organizer: Yuan, Ye	Huazhong Univ. of Science and Tech
<i>Unbalanced Load</i> , pp. 784-7		17:00-17:15	MoC5.
Xu, Zhongyan	Harbin Inst. of Tech	Dissipativity Based Distribu	ited Model Predictive Control for
He, Fenghua	Harbin Inst. of Tech	Process Network Reconfigu	ration (I), pp. 817-822.
Xing, Xiaowei	Harbin Inst. of Tech	He, Ye	Shanghai Jiao Tong Univ
Qi, Hongsheng	Chinese Acad. of Sciences	Li, Shaoyuan	Shanghai Jiao Tong Univ

	MoC5 2	MoC7	Arena B
17:15-17:30	MoC5.2	Linear Systems (Regular Session	on)
Switching Layers (I), pp	tilayer Networks with Stochastic b. 823-828.	Chair: Oetomo, Denny	Univ. of Melbourne
He, Wangli	East Chia Univ. of Science and	17:00-17:15	MoC7.1
Lv, Siqi	Tech East China Univ. of Science and	Stability Analysis of Linear S Delay Via a New Integral Ine	
	Tech	Liu, Yajuan	Yeungnam Univ
Peng, Chen	Shanghai Univ	Park, Ju H.	Yeungnam Univ
Qian, Feng	East China Univ. of Sci. and Tech	Jung, H.Y.	Yeungnam Univ
17:30-17:45	MoC5.3	Lee, S.M.	Kyungpook National Univ
Enhanced Distributed M Autonomous Multi-Micro	1PC Design for Efficiency Utility of ogrids (I), pp. 829-834.	17:15-17:30	MoC7.2
Du, Yigao	Shanghai Jiao Tong Univ	Networks, pp. 869-874.	on of Drive-Response Boolean
Wu, Jing	Shanghai Jiao Tong Univ	Zhong, Jie	City Univ. of Hong Kong
Li, Shaoyuan	Shanghai Jiao Tong Univ	Ho, Daniel W. C.	City Univ. of Hong Kong
Long, Chengnian	Shanghai Jiao Tong Univ	Lu, Jianguan	Southease Univ
17:15-18:00	MoC5.4	Xu, Wenying	City Univ. of Hong Kong
Hierarchical Nested Pre	dictive Control for Energy	17:30-17:45	MoC7.3
Management of Multi-M	ficrogrids System (I), pp. 835-840.	Design of Feedback Gain in F	
Zou, Yuanyuan	Shanghai Jiao Tong Univ	Learning Control, pp. 875-880.	
Dong, Yi	East China Univ. of Science and	Sebastian, Gijo	Univ. of Melbourne
Li Chaousan	Tech	Tan, Ying	The Univ. of Melbourne
Li, Shaoyuan	Shanghai Jiao Tong Univ East China Univ. of Science &	Oetomo, Denny	Univ. of Melbourne
Niu, Yugang	Tech	Mareels, Iven	The Univ. of Melbourne
	recii	marooto, rron	
	тесп	17:15-18:00	MoC7.4
Mace		17:15-18:00 Mean-Square Stabilization fo	r a Class of Discrete-Time
MoC6	Room 6	17:15-18:00 Mean-Square Stabilization fo Systems with Random Delay	r a Class of Discrete-Time , pp. 881-886.
Nonlinear Control (3) (Re	Room 6 egular Session)	17:15-18:00 Mean-Square Stabilization fo Systems with Random Delay Li, Junhui	r a Class of Discrete-Time , pp. 881-886. South China Univ. of Tech
Nonlinear Control (3) (Re Chair: Hoshino, Kenta	Room 6 egular Session) Aoyama Gakuin Univ	17:15-18:00 Mean-Square Stabilization fo Systems with Random Delay Li, Junhui Lu, Jieying	r a Class of Discrete-Time , pp. 881-886. South China Univ. of Tech South China Univ. of Tech
Nonlinear Control (3) (Re Chair: Hoshino, Kenta 17:00-17:15	Room 6 egular Session) Aoyama Gakuin Univ MoC6.1	17:15-18:00 Mean-Square Stabilization fo Systems with Random Delay Li, Junhui	r a Class of Discrete-Time , pp. 881-886. South China Univ. of Tech
Nonlinear Control (3) (Re Chair: Hoshino, Kenta 17:00-17:15 Finite-Time Stability of	Room 6 egular Session) Aoyama Gakuin Univ	17:15-18:00 Mean-Square Stabilization fo Systems with Random Delay Li, Junhui Lu, Jieying	r a Class of Discrete-Time , pp. 881-886. South China Univ. of Tech South China Univ. of Tech
Nonlinear Control (3) (Re Chair: Hoshino, Kenta 17:00-17:15 Finite-Time Stability of Systems, pp. 841-846.	Room 6 egular Session) Aoyama Gakuin Univ MoC6.1 State-Dependent Homogeneous	17:15-18:00 Mean-Square Stabilization fo Systems with Random Delay Li, Junhui Lu, Jieying	r a Class of Discrete-Time , pp. 881-886. South China Univ. of Tech South China Univ. of Tech
Nonlinear Control (3) (Rec Chair: Hoshino, Kenta 17:00-17:15 Finite-Time Stability of Systems, pp. 841-846. Hoshino, Kenta	Room 6 egular Session) Aoyama Gakuin Univ MoC6.1 State-Dependent Homogeneous Aoyama Gakuin Univ	17:15-18:00 Mean-Square Stabilization fo Systems with Random Delay Li, Junhui Lu, Jieying Su, Weizhou	r a Class of Discrete-Time , pp. 881-886. South China Univ. of Tech South China Univ. of Tech South China Univ. of Tech
Nonlinear Control (3) (Re Chair: Hoshino, Kenta 17:00-17:15 Finite-Time Stability of Systems, pp. 841-846. Hoshino, Kenta Nishimura, Yuki	Room 6 egular Session) Aoyama Gakuin Univ MoC6.1 State-Dependent Homogeneous Aoyama Gakuin Univ Kagoshima Univ	17:15-18:00 Mean-Square Stabilization fo Systems with Random Delay Li, Junhui Lu, Jieying Su, Weizhou MoC8	r a Class of Discrete-Time , pp. 881-886. South China Univ. of Tech South China Univ. of Tech South China Univ. of Tech
Nonlinear Control (3) (Rechair: Hoshino, Kenta 17:00-17:15 Finite-Time Stability of Systems, pp. 841-846. Hoshino, Kenta Nishimura, Yuki 17:15-17:30	Room 6 egular Session) Aoyama Gakuin Univ MoC6.1 State-Dependent Homogeneous Aoyama Gakuin Univ Kagoshima Univ MoC6.2	17:15-18:00 Mean-Square Stabilization fo Systems with Random Delay Li, Junhui Lu, Jieying Su, Weizhou MoC8 Transportation Systems (Regu	r a Class of Discrete-Time , pp. 881-886. South China Univ. of Tech South China Univ. of Tech South China Univ. of Tech Room 7
Nonlinear Control (3) (Re Chair: Hoshino, Kenta 17:00-17:15 Finite-Time Stability of Systems, pp. 841-846. Hoshino, Kenta Nishimura, Yuki 17:15-17:30 Neural Network Integra Container Cranes, pp. 84	Room 6 egular Session) Aoyama Gakuin Univ MoC6.1 State-Dependent Homogeneous Aoyama Gakuin Univ Kagoshima Univ MoC6.2 ated Sliding Mode Control of Floating 47-852.	17:15-18:00 Mean-Square Stabilization fo Systems with Random Delay Li, Junhui Lu, Jieying Su, Weizhou MoC8 Transportation Systems (Regu Chair: Wang, Danwei 17:00-17:15 Convergence Analysis of Item	r a Class of Discrete-Time , pp. 881-886. South China Univ. of Tech South China Univ. of Tech South China Univ. of Tech Room 7 lar Session) Nanyang Tech. Univ MoC8.1
Nonlinear Control (3) (RecChair: Hoshino, Kenta 17:00-17:15 Finite-Time Stability of Systems, pp. 841-846. Hoshino, Kenta Nishimura, Yuki 17:15-17:30 Neural Network Integral Container Cranes, pp. 842 Pham Van, Trieu	Room 6 egular Session) Aoyama Gakuin Univ MoC6.1 State-Dependent Homogeneous Aoyama Gakuin Univ Kagoshima Univ MoC6.2 eted Sliding Mode Control of Floating 47-852. Vietnam Maritime Univ	17:15-18:00 Mean-Square Stabilization for Systems with Random Delay Li, Junhui Lu, Jieying Su, Weizhou MoC8 Transportation Systems (Regulation Chair: Wang, Danwei 17:00-17:15 Convergence Analysis of Iter Traffic Signal Control, pp. 887	r a Class of Discrete-Time , pp. 881-886. South China Univ. of Tech South China Univ. of Tech South China Univ. of Tech Room 7 lar Session) Nanyang Tech. Univ MoC8.1 ative Tuning Strategy for Urban -892.
Nonlinear Control (3) (RecChair: Hoshino, Kenta 17:00-17:15 Finite-Time Stability of Systems, pp. 841-846. Hoshino, Kenta Nishimura, Yuki 17:15-17:30 Neural Network Integral Container Cranes, pp. 842 Pham Van, Trieu 17:30-17:45	Room 6 egular Session) Aoyama Gakuin Univ MoC6.1 State-Dependent Homogeneous Aoyama Gakuin Univ Kagoshima Univ MoC6.2 eted Sliding Mode Control of Floating 47-852. Vietnam Maritime Univ MoC6.3	17:15-18:00 Mean-Square Stabilization for Systems with Random Delay Li, Junhui Lu, Jieying Su, Weizhou MoC8 Transportation Systems (Regulation Chair: Wang, Danwei 17:00-17:15 Convergence Analysis of Iter Traffic Signal Control, pp. 887 Wang, Yu	r a Class of Discrete-Time , pp. 881-886. South China Univ. of Tech South China Univ. of Tech South China Univ. of Tech Room 7 lar Session) Nanyang Tech. Univ MoC8.1 rative Tuning Strategy for Urban -892. Nanyang Tech. Univ
Nonlinear Control (3) (RecChair: Hoshino, Kenta 17:00-17:15 Finite-Time Stability of Systems, pp. 841-846. Hoshino, Kenta Nishimura, Yuki 17:15-17:30 Neural Network Integral Container Cranes, pp. 842 Pham Van, Trieu 17:30-17:45 Robust Attitude Tracking	Room 6 egular Session) Aoyama Gakuin Univ MoC6.1 State-Dependent Homogeneous Aoyama Gakuin Univ Kagoshima Univ MoC6.2 eted Sliding Mode Control of Floating 47-852. Vietnam Maritime Univ	17:15-18:00 Mean-Square Stabilization for Systems with Random Delay Li, Junhui Lu, Jieying Su, Weizhou MoC8 Transportation Systems (Regulation Chair: Wang, Danwei 17:00-17:15 Convergence Analysis of Iter Traffic Signal Control, pp. 887	r a Class of Discrete-Time , pp. 881-886. South China Univ. of Tech South China Univ. of Tech South China Univ. of Tech Room 7 lar Session) Nanyang Tech. Univ MoC8.1 ative Tuning Strategy for Urban -892.
Nonlinear Control (3) (RecChair: Hoshino, Kenta 17:00-17:15 Finite-Time Stability of Systems, pp. 841-846. Hoshino, Kenta Nishimura, Yuki 17:15-17:30 Neural Network Integrate Container Cranes, pp. 84 Pham Van, Trieu 17:30-17:45 Robust Attitude Tracking on Nonlinearly Controlled	Room 6 egular Session) Aoyama Gakuin Univ MoC6.1 State-Dependent Homogeneous Aoyama Gakuin Univ Kagoshima Univ MoC6.2 eted Sliding Mode Control of Floating 47-852. Vietnam Maritime Univ MoC6.3 eg Control of a Rigid Spacecraft Based	17:15-18:00 Mean-Square Stabilization fo Systems with Random Delay Li, Junhui Lu, Jieying Su, Weizhou MoC8 Transportation Systems (Regu Chair: Wang, Danwei 17:00-17:15 Convergence Analysis of Iter Traffic Signal Control, pp. 887 Wang, Yu YANG, HUAN	r a Class of Discrete-Time , pp. 881-886. South China Univ. of Tech South China Univ. of Tech South China Univ. of Tech Room 7 lar Session) Nanyang Tech. Univ MoC8.1 rative Tuning Strategy for Urban -892. Nanyang Tech. Univ Nanyang Tech. Univ Nanyang Tech. Univ
Nonlinear Control (3) (RecChair: Hoshino, Kenta 17:00-17:15 Finite-Time Stability of Systems, pp. 841-846. Hoshino, Kenta Nishimura, Yuki 17:15-17:30 Neural Network Integrate Container Cranes, pp. 84 Pham Van, Trieu 17:30-17:45 Robust Attitude Tracking on Nonlinearly Controller Xu, Dabo	Room 6 egular Session) Aoyama Gakuin Univ MoC6.1 State-Dependent Homogeneous Aoyama Gakuin Univ Kagoshima Univ MoC6.2 eted Sliding Mode Control of Floating 47-852. Vietnam Maritime Univ MoC6.3 eg Control of a Rigid Spacecraft Based ed Quaternions, pp. 853-858.	17:15-18:00 Mean-Square Stabilization for Systems with Random Delay Li, Junhui Lu, Jieying Su, Weizhou MoC8 Transportation Systems (Regulary Chair: Wang, Danwei 17:00-17:15 Convergence Analysis of Iter Traffic Signal Control, pp. 887 Wang, Yu YANG, HUAN Wang, Danwei 17:15-17:30 Ensuring Service Level in Dyn	r a Class of Discrete-Time , pp. 881-886. South China Univ. of Tech South China Univ. of Tech South China Univ. of Tech Room 7 lar Session) Nanyang Tech. Univ MoC8.1 rative Tuning Strategy for Urban -892. Nanyang Tech. Univ Nanyang Tech. Univ Nanyang Tech. Univ
Nonlinear Control (3) (RecChair: Hoshino, Kenta 17:00-17:15 Finite-Time Stability of Systems, pp. 841-846. Hoshino, Kenta Nishimura, Yuki 17:15-17:30 Neural Network Integrate Container Cranes, pp. 84 Pham Van, Trieu 17:30-17:45 Robust Attitude Tracking on Nonlinearly Controlled Xu, Dabo He, Jiafan	Room 6 egular Session) Aoyama Gakuin Univ MoC6.1 State-Dependent Homogeneous Aoyama Gakuin Univ Kagoshima Univ MoC6.2 eted Sliding Mode Control of Floating 47-852. Vietnam Maritime Univ MoC6.3 eg Control of a Rigid Spacecraft Based ed Quaternions, pp. 853-858. Nanjing Univ. of Science and Tech	17:15-18:00 Mean-Square Stabilization for Systems with Random Delay Li, Junhui Lu, Jieying Su, Weizhou MoC8 Transportation Systems (Regula Chair: Wang, Danwei 17:00-17:15 Convergence Analysis of Iter Traffic Signal Control, pp. 887 Wang, Yu YANG, HUAN Wang, Danwei 17:15-17:30 Ensuring Service Level in Dyna 19:00-19:	r a Class of Discrete-Time , pp. 881-886. South China Univ. of Tech Room 7 Iar Session) Nanyang Tech. Univ MoC8.1 Rative Tuning Strategy for Urban -892. Nanyang Tech. Univ
Nonlinear Control (3) (RecChair: Hoshino, Kenta 17:00-17:15 Finite-Time Stability of Systems, pp. 841-846. Hoshino, Kenta Nishimura, Yuki 17:15-17:30 Neural Network Integrac Container Cranes, pp. 84 Pham Van, Trieu 17:30-17:45 Robust Attitude Trackin	Room 6 egular Session) Aoyama Gakuin Univ MoC6.1 State-Dependent Homogeneous Aoyama Gakuin Univ Kagoshima Univ MoC6.2 ated Sliding Mode Control of Floating 47-852. Vietnam Maritime Univ MoC6.3 ag Control of a Rigid Spacecraft Based and Quaternions, pp. 853-858. Nanjing Univ. of Science and Tech Nanjing Univ. of Science and Tech	17:15-18:00 Mean-Square Stabilization for Systems with Random Delay Li, Junhui Lu, Jieying Su, Weizhou MoC8 Transportation Systems (Regul Chair: Wang, Danwei 17:00-17:15 Convergence Analysis of Iter Traffic Signal Control, pp. 887 Wang, Yu YANG, HUAN Wang, Danwei 17:15-17:30 Ensuring Service Level in Dynamon Delay Delay Person Delay Person Delay Person Delay Person Delay Person Person Delay Person P	Room 7 Iar Session) Nanyang Tech. Univ
Nonlinear Control (3) (RecChair: Hoshino, Kenta 17:00-17:15 Finite-Time Stability of Systems, pp. 841-846. Hoshino, Kenta Nishimura, Yuki 17:15-17:30 Neural Network Integrate Container Cranes, pp. 847 Pham Van, Trieu 17:30-17:45 Robust Attitude Tracking on Nonlinearly Controller Xu, Dabo He, Jiafan Sheng, Andong	Room 6 egular Session) Aoyama Gakuin Univ MoC6.1 State-Dependent Homogeneous Aoyama Gakuin Univ Kagoshima Univ MoC6.2 ated Sliding Mode Control of Floating 47-852. Vietnam Maritime Univ MoC6.3 To Control of a Rigid Spacecraft Based and Control of Science and Tech Nanjing Univ. of Science and Tech Nanjing Univ. of Science and Tech Nanjing Univ. of Science and Tech	17:15-18:00 Mean-Square Stabilization for Systems with Random Delay Li, Junhui Lu, Jieying Su, Weizhou MoC8 Transportation Systems (Regula Chair: Wang, Danwei 17:00-17:15 Convergence Analysis of Iter Traffic Signal Control, pp. 887 Wang, Yu YANG, HUAN Wang, Danwei 17:15-17:30 Ensuring Service Level in Dyna 19:00-19:	r a Class of Discrete-Time , pp. 881-886. South China Univ. of Tech Room 7 Iar Session) Nanyang Tech. Univ MoC8.1 Anyang Tech. Univ Nanyang Tech. Univ

Ren, Ye

Lei, Ting

Hou, Zhongsheng

Ho Chi Minh City Univ. of Tech

Ho Chi Minh City of Tech

Beijing Jiaotong Univ

Beijing Jiaotong Univ

Beijing Jiaotong Univ

Shanghai Jiao Tong Univ

Zheng, Yi

859-863.

Nguyen, Quoc Chi

Ho, Thanh Phuong

17:15-18:00 MoC8.4

Analysis and Control of Compensation Rope Response in Elevator System with Time-Varying Length, pp. 905-910.

Nguyen, Xuan ThuanKyoto Inst. of TechMiura, NanakoKyoto Inst. of TechSone, AkiraKyoto Insitute of Tech

Interactive Paper Presentation Session (Poster Papers) - Monday 18 Dec 2017 Foyer F, 15:30-17:00			
Poster Board	Paper Title	Session	Paper ID
1	3 Dimensional Laser Scanner Roll Patterning	Pracitioner papers	446
2	Observability Singularity of Batch Reactor: A Solution Based on High Order Sliding Mode Differentiator Approach	Pracitioner papers	493
3	An On-Line Process Dead-Time Estimation Algorithm	Pracitioner papers	90
4	Path Generation of Industrial Robot for Tracking Surface of Workpiece Using CAD-Based Off-Line Programming	Pracitioner papers	405
5	Automatic Assembly Method with the Passive Compliant Device	Pracitioner papers	499
6	Predictive Control using Mirror Plant and Application to LNG Regasification Plants	Pracitioner papers	251
7	Optimal Control of an Autonomous Underwater Vehicle Equipped with the Collective and Cyclic Pitch Propeller	Pracitioner papers	544
8	A Study on Efficient Adaptation to Inexperienced Situations by Robots with Different Action Control Individualities	Adaptive and Robust Control	609
9	Multivariable MRAC for a Quadrotor UAV with a Non-Diagonal Interactor Matrix	Adaptive and Robust Control	589
10	Distributed Adaptive Neural Consensus Tracking Control for a Class of Nonlinear Strict-Feedback Multi-Agent Systems	Adaptive and Robust Control	49
11	Interaction between a Fault-Tolerant Flight Control System Using Simple Adaptive Control and Pilot's Pitch Control	Adaptive and Robust Control	292
12	Data-Driven Linearly Parametrized Controller Design Based on Minimum Variance Evaluation	Adaptive and Robust Control	282
13	Pre-Filter Design for Non-Iterative Data-Driven Controller Parameters Tuning Using Closed-Loop Step Response Data	Adaptive and Robust Control	283
14	Non-Iterative Data-Driven Controller Parameters Tuning of Feedback Linearizing Controller	Adaptive and Robust Control	284
15	Attitude Control Law for Reentry Vehicle Based on Extended State Observer	Adaptive and Robust Control	578
16	Adaptive Sliding Mode Control for Head-Angle and Velocity Tracking of Planar Snake Robot	Adaptive and Robust Control	476
17	L1 Adaptive Control of the Flying Wing UAV with Unknown Time-Varying Disturbances	Adaptive and Robust Control	9
18	Decentralized Second-Order Sliding Mode Control Design for a Small-Scale Magnetic Levitation Platform	Adaptive and Robust Control	635
19	A Study on Robust Electromagnetic Shunt Damping by Parallel R-C or Parallel L-R Shunt Circuit Based on \$\\$mu\$-Synthesis	Adaptive and Robust Control	196
20	A Study on Robust Control Method of Underwater Vehicle Using SMCSPO	Adaptive and Robust Control	399
21	Reliable Robust PID Controller Design for TRMS	Adaptive and Robust Control	356
22	Observer-Based Dynamic Output-Feedback Protocol for H∞ Tracking Control of Multi-Agent Systems	Adaptive and Robust Control	262
23	All Stabilizing PID Controllers for Interval Systems and Systems with Affine Parametric Uncertainties	Adaptive and Robust Control	194
24	Effectiveness of Higher Order Controllers for Uncertain Systems	Adaptive and Robust Control	306
25	Strong Stability Based Robust Sliding Mode Control	Adaptive and Robust Control	474
26	A Tuning Method for Uncertain Processes of Thermal Power Plant Based on the Worst Soft Characteristic	Adaptive and Robust Control	525
27	H∞ Based State Feedback Robust Controller for NonlinearTeleoperation System with Variable Time Delays	Adaptive and Robust Control	71
28	Reduction of Chattering for a Sliding Mode Control of a Bi-Steerable Car	Adaptive and Robust Control	473
29	Design of UAV Distributed Aided Navigation Simulation System Based on Scene/Terrain Matching	Autonomous Vehicles	220
30	Development of a Generic Loiter Automation for a Fixed Wing UAV/OPV	Autonomous Vehicles	376

31	Fault-Tolerant Control of Fixed-Wing UAV Using GA-Optimised Control Allocation Technique	Autonomous Vehicles	534
32	Flight Control of Gasoline-Engine Driven Hexacopter with Variable-Pitch: Towards Stable and Long-Endurance Flight	Autonomous Vehicles	539
33	Disturbance-Compensated Intercept Guidance Using Line-of-Sight Rate Information	Autonomous Vehicles	179
34	Optimal Path Planning utilizing Dissipation Function based on Terrain Elevation Map for Lunar Rovers	Autonomous Vehicles	585
35	UAV Path Following Based on BLADRC and Inverse Dynamic Guidance Approach	Autonomous Vehicles	10
36	Ride Comfort Quality Improvement for a Quarter Car Semi-Active Suspension System Via State-Feedback Controller	Autonomous Vehicles	517
37	Investigation of Basis Functions in Boundary Modeling for Automotive Engine	Autonomous Vehicles	482
38	Energy Conserving Vehicle Motion Control for Electric Vehicle Equipped with Multiple Drive Motors	Autonomous Vehicles	618
39	A Study on Detection Method of Vehicle Based on Lane Detection for a Driver Assistance System Using a Camera on Highway	Autonomous Vehicles	145
40	Sensor Anomaly Detection and Recovery in a Nonlinear Autonomous Ground Vehicle Model	Autonomous Vehicles	172
41	Distributed Group Consensus of Discrete-Time Heterogeneous Multi-Agent Systems with Directed Communication Topology	Autonomous Vehicles	541
42	Dynamic Mission Allocation for Interceptions by Using Multiple Rotary-Wing UAVs	Autonomous Vehicles	241
43	Detection of Landslide Disaster by Telemetric Sensing Node Network System	Autonomous Vehicles	484
44	Identification of Critical Cases of ADAS Safety by FOT Based Parameterization of a Catalogue	Autonomous Vehicles	395
45	A Sensor-Based Exploration Algorithm for Autonomous Map Generation on Mobile Robot Using Kinect	Autonomous Vehicles	119
46	Design of Self-Localization Based Autonomous Driving Platform for an Electric Wheelchair	Autonomous Vehicles	642
47	Simultaneous Dual-Arm Motion Planning Considering Shared Transfer Path for Minimizing Operation Time	Autonomous Vehicles	339
48	A Lane-Change Maneuver of Automated Vehicles for Improving Traffic Flow on Highways with Multiple Lanes	Autonomous Vehicles	180
49	Modal Analysis for Lateral Dynamics of a High-Speed Train	Autonomous Vehicles	139
50	On Sustainable Vehicle Management - a Simulation Study -	Autonomous Vehicles	303
51	Step Response Based Identification of Hammerstein Models: Application to Mach number Drift in an Intermittent Wind Tunnel	Autonomous Vehicles	12
52	Time-Delay Control Based on a Nonlinear Vehicle Lateral Dynamics	Nonlinear Control and System Theory	353
53	Discrete-Time Nonlinear Attitude Tracking Control of Spacecraft	Nonlinear Control and System Theory	602
54	Disturbance Observer-Enhanced Nonlinear Dynamic Inversion Control for Unmanned Helicopter Path Tracking	Nonlinear Control and System Theory	428
55	Gain-Scheduled H2-Performance Control of Individual Synchronous Generators with Static VAR Compensator Controllers	Nonlinear Control and System Theory	63
			58
56	Nonlinear Model Predictive Control of a Planar Three-Link Space Manipulator	Nonlinear Control and System Theory	30
56 57	Nonlinear Model Predictive Control of a Planar Three-Link Space Manipulator Geometric Tracking Control of a Three-Dimensional Revolute Joint Robot	System Theory Nonlinear Control and	28
		System Theory Nonlinear Control and System Theory Nonlinear Control and	
57	Geometric Tracking Control of a Three-Dimensional Revolute Joint Robot	System Theory Nonlinear Control and System Theory Nonlinear Control and System Theory Nonlinear Control and	28
57 58	Geometric Tracking Control of a Three-Dimensional Revolute Joint Robot Approximation of the Robust Domain of Attraction for Uncertain Polynomial Systems	System Theory Nonlinear Control and System Theory	28 514
57 58 59	Geometric Tracking Control of a Three-Dimensional Revolute Joint Robot Approximation of the Robust Domain of Attraction for Uncertain Polynomial Systems Creation and Stabilization of Limit Cycles in Chaotic Attractors through Closure of Orbits PID-Based Stability Analysis for Unknown Affine Nonlinear Discrete-Time Systems Evaluation of Tracking Performance of NPID Double Hyperbolic Controller Design for XY Table	System Theory Nonlinear Control and	28 514 104
57 58 59 60	Geometric Tracking Control of a Three-Dimensional Revolute Joint Robot Approximation of the Robust Domain of Attraction for Uncertain Polynomial Systems Creation and Stabilization of Limit Cycles in Chaotic Attractors through Closure of Orbits PID-Based Stability Analysis for Unknown Affine Nonlinear Discrete-Time Systems	System Theory Nonlinear Control and	28 514 104 506
57 58 59 60 61	Geometric Tracking Control of a Three-Dimensional Revolute Joint Robot Approximation of the Robust Domain of Attraction for Uncertain Polynomial Systems Creation and Stabilization of Limit Cycles in Chaotic Attractors through Closure of Orbits PID-Based Stability Analysis for Unknown Affine Nonlinear Discrete-Time Systems Evaluation of Tracking Performance of NPID Double Hyperbolic Controller Design for XY Table Ball-Screw Drive System	System Theory Nonlinear Control and System Theory	28 514 104 506 348

65	A Random Opinion Formation Model over Signed Networks	Nonlinear Control and System Theory	289
66	Some Fundamental Aspects of Second and Third Order Repetitive Controllers	Nonlinear Control and System Theory	378
67	A Non-Smooth Stochastic Lyapunov Function and Its Relationship with Viscosity Solutions	Nonlinear Control and System Theory	361
68	Optimal Energy Management System for Strategic Prosumer Microgrids: An Average Bidding Algorithm for Prosumer Aggregators	Nonlinear Control and System Theory	498
69	Passivity-Based Conditional Servo-Mechanism Design for a Nonlinear Benchmark System	Nonlinear Control and System Theory	623
70	Control of Underactuated Bridge Cranes: A Simplified IDA-PBC Approach	Nonlinear Control and System Theory	198
71	Closed-Loop PDα -Type Iterative Learning Control for Fractional Nonlinear Systems with Time-Delay	Nonlinear Control and System Theory	402
72	A Maximum Principle for a Special Optimal Multiprocess Problem with State Constraints	Nonlinear Control and System Theory	492

ASCC 2017

Tuesday Sessions



Technical Program for Tuesday December 19, 2017

Plenary Session (2) (Plenary Sess	Arena B ion)
Chair: Tan, Ying	The Univ. of Melbourne
08:30-09:30	TuAPI.1
PDE Control: Designs and Applicat	ions*.
Krstic, Miroslav	Univ. of California at San Diego
TuA1	Room 1
New Developments of MPC Appli Session)	cation Technology (1) (Invited
Chair: Li, Dewei	Shanghai Jiao Tong Univ
Organizer: Li, Dewei	Shanghai Jiao Tong Univ
10:00-10:15	TuA1.1
Extending Signal Temporal Log	
Distributed Model Predictive Co	
Zhang, Linli	Shanghai Jiao Tong Univ
Li, Dewei	Shanghai Jiao Tong Univ
Xi, Yugeng Li, Jiwei	Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ
10:15-10:30	TuA1.2
Distributed Model Predictive Co Channel System (I), pp. 917-922	
Zeng, Ningjun	Central South Univ
Cen, Lihui	Central South Univ
Li, Dewei	Shanghai Jiao Tong Univ
10:30-10:45	TuA1.3
Distributed Model Predictive Co Event-Trigger (I), pp. 923-927.	ntrol Algorithm Based on
Chen, Minhao	Zhejiang Univ
Liu, Yuanlong	Zhejiang Univ
Zhao, Jun	Zhejiang Univ
Xu, Zuhua	Zhejiang Univ
10:45-11:00	TuA1.4
Robust Model Predictive Contro Constraints (I), pp. 928-933.	l of Linear Systems with
Yu, Shuyou	Univ. of Stuttgart
Guo, Yang	Jilin Univ
Chen, Hong	Jilin Univ. Campus NanLing
Zhou, Yu	Jilin Univ
TuA2	Room 2
Optimization Theory for Cyber-Pl Resources (1) (Invited Session)	nysical Systems with Limited

TuA2	Room 2	
Optimization Theory for Cyber-Physical Systems with Limited Resources (1) (Invited Session)		
Chair: Zhang, Heng	Zhejiang Univ	
Organizer: Zheng, Wei Xing	Western Sydney Univ	
Organizer: Zhang, Heng	Zhejiang Univ	
10:00-10:15	TuA2.1	
Game-Theoretic Pricing and Selection with Fading Channels (I), pp. 934-939.		

Hong Kong Univ. of Science and Tech
Paderborn Univ
Paderborn Univ
Hong Kong Univ. of Sci. and Tech
TuA2.2
ed Detector for Replay Attacks , pp. 940-945.
Zhejiang Univ
Zhejiang Univ

Fang, Chongrong

Qi, Yifei

Cheng, Peng

Zhejiang Univ

Zhejiang Univ

Zheng, Wei Xing

Western Sydney Univ

10:30-10:45

TuA2.3

Probabilistic Denial of Service Attack against Remote State Estimation Over a Markov Channel in Cyber-Physical Systems (I), pp. 946-951.

Cao, XianghuiSoutheast UnivSun, ChangyinSoutheast Univ10:45-11:00TuA2.4

Stabilization of Networked Nonlinear Systems with Time-Varying Transmission Delays (I), pp. 952-957.

Tang, Yang

East China Univ. of Science and
Tech

Zhang, Dandan East China Univ. of Science and Tech. Shanghai, 20023

TuA3	Room 3	
Advanced Control Methods and App	olications (1) (Invited Session)	
Chair: Song, Kai-Tai	National Chiao Tung Univ	
Organizer: Tsai, Ching-Chih	National Chung-Hsing Univ	
10:00-10:15	TuA3.1	
Intelligent Brain Emotional Learning Control System Design		

Intelligent Brain Emotional Learning Control System Design for Nonlinear Systems (I), pp. 958-963.

Lin, Chih-Min Yuan Ze Univ Muthusamy, Praveen Kumar Yuan Ze Univ 10:15-10:30 TuA3.2

Sparse Edge Visual Odometry Using an RGB-D Camera (I), pp. 964-969.

Syu, Jhih-Lei National Chung Cheng Univ
Lin, Huei-Yung National Chung Cheng Univ

10:30-10:45 TuA3.3

Virtual Reality Control of a Robotic Camera Holder for Minimally Invasive Surgery (I), pp. 970-975.

Song, Kai-Tai National Chiao Tung Univ Zinchenko, Kateryna National Chiao Tung Univ Komarov, Oleksii National Chiao Tung Univ 10:45-11:00 TuA3.4

Precision Contouring Control of 5 DOF Dual-Arm Robot Manipulators with Holonomic Constraints (I), pp. 976-981.

Chen, Shyh-Leh
Nuchkrua, Thanana
National Chung Cheng Univ
Nuchkrua, Thanana
National Chung Cheng Univ
Nuchkrua, Thanana
National Chung Cheng Univ
Nitional Chung Cheng Univ
Nitional Chung Cheng Univ
Nitional Chung Cheng Univ
National Chung Cheng Univ
National Chung Cheng Univ

Chair: Takahashi, Masanori

TuA4

10:30-10:45

Room 4

Tokai Univ

TuA4.3

10:30-10:45	TuA5.3
10.00 10.10	1 47 10.0

Risk Functions Oriented Autonomous Overtaking, pp. 1017-1022.

Moser, Dominik Johannes Kepler Univ. Linz Ramezani, Zahra Johannes Kepler Univ. Linz Davide, Gagliardi Johannes Kepler Univ. Linz Zhou, Jinwei Johannes Kepler Univ Del Re, Luigi Johannes Kepler Univ. Linz

10:45-11:00 TuA5.4

A Bio-Inspired Sensor System for Vibration Measurement in

Noisy Environment, pp. 1023-1028.

Pan, HuihuiHong Kong Pol. UnivJing, Xing JianHong Kong Pol. UnivLi, ZhengchaoHong Kong Pol. Univ

10:00-10:15	TuA4.1	
An Adaptive Control Allocation Algorithm for Nonlinear Vehicles with Parameter Uncertainty, pp. 982-987.		
Chen, Dong-liang	Harbin Inst. of Tech	
Guoping, Liu	South Wales	
10:15-10:30	TuA4.2	
Adaptive Neural Network Contro Aerial Vehicles, pp. 988-992.	ol for Quadrotor Unmanned	
Teng, Yan-Fei	Huazhong Univ. of Science & Tech	
HU, Bin	Huazhong Univ. of Science & Tech	
Liu, Zhi-Wei	Huazhong Univ. of Science & Tech	
Huang, Jian	Huazhong Univ. of Science & Tech	
Guan, Zhi-Hong	Huazhong Univ. of Sci. & Tech	

Adaptive Control and Tuning (1) (Regular Session)

Genetic Algorithm for Decentralized PI Controller Tuning of a Multi-Span Web Transport System Based on Overlapping Decomposition, pp. 993-998.

Giannoccaro, Nicola Ivan

Manieri, Giancarlo

Martina, Paolo

Sakamoto, Tetsuzo

Univ. of Salento
Univ. of Salento
Univ. of Salento
Kyushu Inst. of Tech

10:45-11:00

TuA4.4

Simple Adaptive Control for Plants with Unknown Sensor Failures, pp. 999-1004.

Takahashi, Masanori Tokai Univ

TuA5	Room 5	
Automotive Systems (1) (Regular Session)		
Chair: Ondes, Ertugrul Baris	Istanbul Tech. Univ	
10:00-10:15	TuA5.1	
Autonomous Overtaking Using Stochastic Model Predictive		

Autonomous Overtaking Using Stochastic Model Predictive Control, pp. 1005-1010.

NGUYEN, Ngoc Anh
Moser, Dominik
Schrangl, Patrick
Del Re, Luigi
Jones, Stephen John

Johannes Kepler Univ. Linz
Johannes Kepler Univ. Linz
Johannes Kepler Univ. Linz
Johannes Kepler Univ. Linz
Johannes, Stephen John

AVL List GmbH, Graz

10:15-10:30

TuA5.2

Model-Based 2-D Look-Up Table Calibration Tool Development, pp. 1011-1016.

Ondes, Ertugrul Baris Istanbul Tech. Univ
Bayezit, Ismail Istanbul Tech. Univ
Poergye, Imre FEV GmbH
Hafsi, Ahmed FEV GmbH

TuA6	Room 6
Intelligent and Learning Control (1) (Regular Session)	

Chair: Kim, H Jin Seoul National Univ 10:00-10:15 TuA6.1

Zero-Error Tracking of Iterative Learning Control Using Probabilistically Quantized Measurements, pp. 1029-1034.

Shen, Dong
Xu, Jian-Xin
Beijing Univ. of Chemical Tech
National Univ. of Singapore

10:15-10:30
TuA6.2

A New Learning Controller for Periodic Disturbance Rejection,

pp. 1035-1040. Han, Sanem Evren Sabancı Univ

Unel, Mustafa Sabanci Univ
10:30-10:45 TuA6.3

Direct Learning Control of Trajectories Subject to High-Order Internal Model for a Class of Continuous-Time Linear Systems, pp. 1041-1045.

Zhou, Wei

Jiangsu Vocational Inst. of
Commerce
Yu, Miao

Li, Chaoyong

TuA6.4

Vision-Based Deep Reinforcement Learning to Control a Manipulator, pp. 1046-1050.

Kim, WonchulSeoul National UnivKim, TaewanSeoul National UnivLee, jongguSeoul National UnivKim, H JinSeoul National Univ

TuA7	Arena B
Pattern Recognition (Regular Session)	
Chair: Huang, Biao	Univ. of Alberta

10:00-10:15 TuA7.1

Robust Visual Tracking Via Occlusion Detection Based on Staple Algorithm, pp. 1051-1056.

Niu, Xiaoguang Shanghai Jiao Tong Univ Fang, Xingqi Shanghai Jiao Tong Univ

Qiao, Yu	Shanghai Jiao Tong Univ	11:15-11:30	TuB1.2
10:15-10:30	TuA7.2	Multiple Model Predictive Co. Wind Turbines System (I), p	ntrol with Undisturbed Switch for p. 1080-1085.
1057-1062.	Tior TARC Seventii Mission, pp.	Huang, Xianda	Jiangsu Univ
Hou, Yi	Harbin Inst. of Tech	Pan, Tianhong	Jiangsu Univ
Yao, Yu	Harbin Inst. of Tech	Li, Zhengming	Jiangsu Univ
He, Fenghua	Harbin Inst. of Tech	Ding, Shihong	Jiangsu Univ
Xu, Zhongyan	Harbin Inst. of Tech	Tan, Shuai	East China Univ. of Science and
Huo, Xin	Harbin Inst. of Tech		Tech
10:30-10:45	TuA7.3	11:30-11:45	TuB1.3
Nesterov Accelerated Grad Neural Network with Dropo Recognition, pp. 1063-1068.	ient Descent-Based Convolution out for Facial Expression		ce Control Based on Continuation Predictive Control with Safety
Su, Wanjuan	China Univ. of Geosciences	Okuda, Hiroyuki	Nagoya Univ
Chen, Luefeng	China Univ. of Geosciences	Sugie, Nobuto	Nagoya Univ
Wu, Min	China Univ. of Geosciences	Suzuki, Tatsuya	Nagoya Univ
Zhou, Mengtian	China Univ. of Geosciences	11:45-12:00	TuB1.4
Liu, Zhentao Cao, Weihua	China Univ. of Geosciences China Univ. of Geosciences, Wuhan, China		del Predictive Control of Blood pe 1 Diabetes Mellitus, pp. 1092-
10:45-11:00	TuA7.4	Ortmann, Lukas	RWTH Aachen Univ
Simultaneous Estimation o		Shi, Dawei	Harvard Univ
	bability Principal Component	Dassau, Eyal	HARVARD Univ
Regression, pp. 1069-1074.	,	Doyle, Francis	Harvard Univ
Sedghi, Shabnam	Univ. of Alberta	Leonhardt, Steffen	RWTH Aachen Univ
Huang, Biao	Univ. of Alberta	Misgeld, Berno	RWTH Aachen Univ
TuBPI	Arena B	TuB2	Room 2
Semi-Plenary Session (2) (Pl			r-Physical Systems with Limited
Chair: Ahn, Hyo-Sung	Gwangju Inst. of Sci & Tech	Resources (2) (Invited Session)	
13:00-14:00	TuBPI.1	Chair: Zheng, Wei Xing Organizer: Zheng, Wei Xing	Western Sydney Univ
Adaptive Operation of Small Fi	lying Robots*.	0 0,	Western Sydney Univ
Kim, H Jin	Seoul National Univ	Organizer: Zhang, Heng	Zhejiang Univ
14:00-15:00	TuBPI.2	11:00-11:15	TuB2.1
Autonomous Distributed Contr	ol of Next-Generation Smart Grids*.	Channel (I), pp. 1098-1103.	ol Via a Correlated Block Fading
Zhong, Qing-Chang	The Univ. of Sheffield	Zhang, Heng	Zhejiang Univ
		Zheng, Wei Xing	Western Sydney Univ
TuB1	Room 1	11:15-11:30	TuB2.2
	Application Technology (2) (Invited		der Limited Resources for Two
Session) Chair: Okuda, Hiroyuki	Nagoya Univ	•	n Wireless Sensor Network (I),
Organizer: Li, Dewei	Shanghai Jiao Tong Univ	Wang, Jie	Univ. of Science and Tech. of
11:00-11:15	TuB1.1	Qin, Jiahu	China Univ. of Science and Tech. of
	Control Strategy for Spatially with Quantization (I), pp. 1075-	Ma, Qichao	China Univ. of Science and Tech. of
wang, mengling	East China Univ. of Science and Tech	Kang, Yu	China Univ. of Science and Tech. of
Xue. Bingiang	Qinadao Univ		China

Qingdao Univ

Key Lab. of Advanced Control and Optimization for Chemical

Ec

11:30-11:45

Huang, Yuan

On Stability of Sampled-Data Extended State Observer for Networked Systems (I), pp. 1110-1115.

TuB2.3

Beijing Inst. of Tech

Xue, Binqiang

Shi, Hongbo

Yan, Huaicheng

Shi, Dawei	Beijing Inst. of Tech Harvard Univ	Integral Reinforcement Le	and External Disturbance Using
Xue, Jian	Beijing Inst. of Tech	Zhao, Jingang	Beijing Inst. of Tecl
		Gan, Ming-Gang	Beijing Inst. of Tec
11:45-12:00	TuB2.4	Chen, Jie	Beijing Inst. of Tech
Strategic Air Traffic Flow Manag		Hou, Dongyang	Beijing Inst. of Tecl
Using Scalable Sampling-Based Q-Learning Approaches (I), pp.		Zhang, Meng	Beijing Inst. of Tecl
Xie, Junfei	Texas A&M Univ. Christi	Bai, Yonggiang	Beijing Inst. of Tech
Wan, Yan	Univ. of Texas at Arlington		
Lewis, Frank L.	Univ. of Texas at Arlington	11:15-11:30	TuB4.2
zomo, i raint z.	Cinv. or roxuo acrumington	Failure Compensation, pp.	
TuB3	Room 3	Song, Ge	Univ. of Virginia
Advanced Control Methods and A	Applications (2) (Invited Session)	Tao, Gang	Univ. of Virginia
Chair: Tsai, Ching-Chih	National Chung-Hsing Univ	11:30-11:45	TuB4.0
Organizer: Tsai, Ching-Chih	National Chung-Hsing Univ	Hypersonic Vehicle Syster Compensation, pp. 1158-11	m Models and Adaptive Turbulence 163.
11:00-11:15	TuB3.1	Wen, Liyan	Nanjing Univ. of Aeronautics and
A Fast CLSM Undersampling Im		•	Astronautics
Framework with Precise Stage Measurements (I), pp. 1122-1127		Tao, Gang	Univ. of Virginia
Chang, Kuang Yao	National Taiwan Univ	Yang, Hao	Nanjing Univ. of Aeronautics and
Liu, Yi-Lin	National Taiwan Univ	l' D'	Astronautics
Liu, Da-Wei	National Taiwan Univ	Jiang, Bin	NUAA
Chou, Meng-Hao	National Taiwan Univ	11:45-12:00	TuB4.4
Wu, Jim-Wei	National Taiwan Univ	Comparative Evaluation o	f a Novel Principle for PID
Fu, Li-Chen	National Taiwan Univ	<i>Autotuning</i> , pp. 1164-1169.	
·		De Keyser, Robin M.C.	Ghent Univ
11:15-11:30	TuB3.2	Ionescu, Clara	Ghent Univ
Digital Command Feedforward	and PID Temperature Control	Muresan, Cristina Ioana	Tech. Univ. of Cluj-Napoca
for PET Stretch Blow Molding M			, ,
for PET Stretch Blow Molding M Tsai, Ching-Chih	National Chung-Hsing Univ	Tups	
for PET Stretch Blow Molding M		TuB5	Room 5
for PET Stretch Blow Molding M Tsai, Ching-Chih Tsai, Chia-Ta 11:30-11:45	National Chung-Hsing Univ National Chung Hsing Univ TuB3.3	Automotive Systems (2) (Re	Room segular Session)
for PET Stretch Blow Molding M Tsai, Ching-Chih Tsai, Chia-Ta 11:30-11:45 Application of Phase-Locked Loc	National Chung-Hsing Univ National Chung Hsing Univ TuB3.3 op to Mass Measurement		Room 5 egular Session) The Univ. of Tokyo
for PET Stretch Blow Molding M Tsai, Ching-Chih Tsai, Chia-Ta 11:30-11:45	National Chung-Hsing Univ National Chung Hsing Univ TuB3.3 op to Mass Measurement	Automotive Systems (2) (Re Chair: Hara, Shinji 11:00-11:15	Room (egular Session) The Univ. of Tokyo TuB5.
for PET Stretch Blow Molding M Tsai, Ching-Chih Tsai, Chia-Ta 11:30-11:45 Application of Phase-Locked Loc Using Damped Dynamic Vibrati Mizuno, Takeshi	National Chung-Hsing Univ National Chung Hsing Univ TuB3.3 op to Mass Measurement fon Absorber, pp. 1134-1139.	Automotive Systems (2) (Rechair: Hara, Shinji 11:00-11:15 Robust Control of the Boo Subject to Model Uncertain	Room 5 egular Session) The Univ. of Tokyo
for PET Stretch Blow Molding M Tsai, Ching-Chih Tsai, Chia-Ta 11:30-11:45 Application of Phase-Locked Lo. Using Damped Dynamic Vibrati	National Chung-Hsing Univ National Chung Hsing Univ TuB3.3 op to Mass Measurement ion Absorber, pp. 1134-1139. Saitama Univ	Automotive Systems (2) (Rechair: Hara, Shinji 11:00-11:15 Robust Control of the Boo Subject to Model Uncertain 1175.	Room segular Session) The Univ. of Tokyo TuB5.1 Sest-Pressure of a Turbocharger inty and Disturbances, pp. 1170-
for PET Stretch Blow Molding M Tsai, Ching-Chih Tsai, Chia-Ta 11:30-11:45 Application of Phase-Locked Loc Using Damped Dynamic Vibrati Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji	National Chung-Hsing Univ National Chung Hsing Univ TuB3.3 op to Mass Measurement ion Absorber, pp. 1134-1139. Saitama Univ Saitama Univ	Automotive Systems (2) (Rechair: Hara, Shinji 11:00-11:15 Robust Control of the Boo Subject to Model Uncertain 1175. Posielek, Tobias	Room & Ro
for PET Stretch Blow Molding M Tsai, Ching-Chih Tsai, Chia-Ta 11:30-11:45 Application of Phase-Locked Loc Using Damped Dynamic Vibrati Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji 11:45-12:00	National Chung-Hsing Univ National Chung Hsing Univ TuB3.3 op to Mass Measurement ion Absorber, pp. 1134-1139. Saitama Univ Saitama Univ Saitama Univ TuB3.4	Automotive Systems (2) (Rechair: Hara, Shinji 11:00-11:15 Robust Control of the Boo Subject to Model Uncertain 1175. Posielek, Tobias Wulff, Kai	Room & Ro
for PET Stretch Blow Molding M Tsai, Ching-Chih Tsai, Chia-Ta 11:30-11:45 Application of Phase-Locked Locusing Damped Dynamic Vibrati Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji 11:45-12:00 Realization of Zero-Power Cont Freedom Double Parallel Magne	National Chung-Hsing Univ National Chung Hsing Univ TuB3.3 op to Mass Measurement ion Absorber, pp. 1134-1139. Saitama Univ Saitama Univ Saitama Univ TuB3.4 trol in a Two-Degree-Of-	Automotive Systems (2) (Rechair: Hara, Shinji 11:00-11:15 Robust Control of the Boo Subject to Model Uncertain 1175. Posielek, Tobias Wulff, Kai Reger, Johann	Room 5 egular Session) The Univ. of Tokyo TuB5.2 est-Pressure of a Turbocharger inty and Disturbances, pp. 1170- German Aerospace Center (DLR Tech. Univ. Ilmenau TU Ilmenau
for PET Stretch Blow Molding M Tsai, Ching-Chih Tsai, Chia-Ta 11:30-11:45 Application of Phase-Locked Loc Using Damped Dynamic Vibrati Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji 11:45-12:00 Realization of Zero-Power Cont Freedom Double Parallel Magne 1140-1145.	National Chung-Hsing Univ National Chung Hsing Univ TuB3.3 op to Mass Measurement ion Absorber, pp. 1134-1139. Saitama Univ Saitama Univ Saitama Univ TuB3.4 trol in a Two-Degree-Of- etic Suspension System, pp.	Automotive Systems (2) (Rechair: Hara, Shinji 11:00-11:15 Robust Control of the Boo Subject to Model Uncertain 1175. Posielek, Tobias Wulff, Kai Reger, Johann 11:15-11:30	Room 8 egular Session) The Univ. of Tokyo TuB5.* est-Pressure of a Turbocharger inty and Disturbances, pp. 1170- German Aerospace Center (DLR Tech. Univ. Ilmenau TU Ilmenau TuB5.*
for PET Stretch Blow Molding M Tsai, Ching-Chih Tsai, Chia-Ta 11:30-11:45 Application of Phase-Locked Lo- Using Damped Dynamic Vibrati Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji 11:45-12:00 Realization of Zero-Power Cont Freedom Double Parallel Magne 1140-1145. Narisawa, Yoshinori	National Chung-Hsing Univ National Chung Hsing Univ TuB3.3 op to Mass Measurement ion Absorber, pp. 1134-1139. Saitama Univ Saitama Univ Saitama Univ TuB3.4 rol in a Two-Degree-Of- etic Suspension System, pp. Shinshu Univ	Automotive Systems (2) (Rechair: Hara, Shinji 11:00-11:15 Robust Control of the Boo Subject to Model Uncertain 1175. Posielek, Tobias Wulff, Kai Reger, Johann 11:15-11:30 Hierarchically Decentralized	Room Segular Session) The Univ. of Tokyo TuB5.1 Set-Pressure of a Turbocharger Sinty and Disturbances, pp. 1170- German Aerospace Center (DLR Tech. Univ. Ilmenau Tu Ilmenau TuB5.2 Sed Control for In-Wheel-Motored
for PET Stretch Blow Molding M Tsai, Ching-Chih Tsai, Chia-Ta 11:30-11:45 Application of Phase-Locked Lo. Using Damped Dynamic Vibrati Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji 11:45-12:00 Realization of Zero-Power Cont Freedom Double Parallel Magne 1140-1145. Narisawa, Yoshinori Mizuno, Takeshi	National Chung-Hsing Univ National Chung Hsing Univ TuB3.3 op to Mass Measurement ion Absorber, pp. 1134-1139. Saitama Univ Saitama Univ Saitama Univ TuB3.4 trol in a Two-Degree-Of- etic Suspension System, pp. Shinshu Univ Saitama Univ	Automotive Systems (2) (Rechair: Hara, Shinji 11:00-11:15 Robust Control of the Boo Subject to Model Uncertain 1175. Posielek, Tobias Wulff, Kai Reger, Johann 11:15-11:30 Hierarchically Decentralized	Room 5 egular Session) The Univ. of Tokyo TuB5.1 est-Pressure of a Turbocharger inty and Disturbances, pp. 1170- German Aerospace Center (DLR Tech. Univ. Ilmenau TU Ilmenau TuB5.2
for PET Stretch Blow Molding M Tsai, Ching-Chih Tsai, Chia-Ta 11:30-11:45 Application of Phase-Locked Locusing Damped Dynamic Vibrati Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji 11:45-12:00 Realization of Zero-Power Contestion Double Parallel Magnet 1140-1145. Narisawa, Yoshinori Mizuno, Takeshi Takasaki, Masaya	National Chung-Hsing Univ National Chung Hsing Univ TuB3.3 op to Mass Measurement fon Absorber, pp. 1134-1139. Saitama Univ Saitama Univ Saitama Univ TuB3.4 trol in a Two-Degree-Of- petic Suspension System, pp. Shinshu Univ Saitama Univ Saitama Univ Saitama Univ	Automotive Systems (2) (Rechair: Hara, Shinji 11:00-11:15 Robust Control of the Boo Subject to Model Uncertain 1175. Posielek, Tobias Wulff, Kai Reger, Johann 11:15-11:30 Hierarchically Decentralize Electric Vehicles with Glob 1181.	Room 5 egular Session) The Univ. of Tokyo TuB5.* st-Pressure of a Turbocharger inty and Disturbances, pp. 1170- German Aerospace Center (DLR Tech. Univ. Ilmenau TU Ilmenau TuB5.* ed Control for In-Wheel-Motored bal and Local Objectives, pp. 1176-
for PET Stretch Blow Molding M Tsai, Ching-Chih Tsai, Chia-Ta 11:30-11:45 Application of Phase-Locked Locusing Damped Dynamic Vibrati Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji 11:45-12:00 Realization of Zero-Power Contest Freedom Double Parallel Magnet 1140-1145. Narisawa, Yoshinori Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji	National Chung-Hsing Univ National Chung Hsing Univ TuB3.3 op to Mass Measurement fon Absorber, pp. 1134-1139. Saitama Univ Saitama Univ TuB3.4 Trol in a Two-Degree-Ofetic Suspension System, pp. Shinshu Univ Saitama Univ Saitama Univ Saitama Univ Saitama Univ Saitama Univ Saitama Univ	Automotive Systems (2) (Rechair: Hara, Shinji 11:00-11:15 Robust Control of the Boo Subject to Model Uncertain 1175. Posielek, Tobias Wulff, Kai Reger, Johann 11:15-11:30 Hierarchically Decentralize Electric Vehicles with Glob 1181. Nguyen, Binh Minh	Room 8 egular Session) The Univ. of Tokyo TuB5.2 est-Pressure of a Turbocharger inty and Disturbances, pp. 1170- German Aerospace Center (DLR Tech. Univ. Ilmenau TU Ilmenau TuB5.2 ed Control for In-Wheel-Motored bal and Local Objectives, pp. 1176-
for PET Stretch Blow Molding M Tsai, Ching-Chih Tsai, Chia-Ta 11:30-11:45 Application of Phase-Locked Locusing Damped Dynamic Vibrati Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji 11:45-12:00 Realization of Zero-Power Contest Freedom Double Parallel Magnet 1140-1145. Narisawa, Yoshinori Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji Hara, Masayuki	National Chung-Hsing Univ National Chung Hsing Univ TuB3.3 op to Mass Measurement ion Absorber, pp. 1134-1139. Saitama Univ Saitama Univ TuB3.4 rrol in a Two-Degree-Of- etic Suspension System, pp. Shinshu Univ Saitama Univ	Automotive Systems (2) (Rechair: Hara, Shinji 11:00-11:15 Robust Control of the Bood Subject to Model Uncertain 1175. Posielek, Tobias Wulff, Kai Reger, Johann 11:15-11:30 Hierarchically Decentralized Electric Vehicles with Global 1181. Nguyen, Binh Minh Hara, Shinji	Room & egular Session) The Univ. of Tokyo TuB5.* St-Pressure of a Turbocharger inty and Disturbances, pp. 1170- German Aerospace Center (DLR Tech. Univ. Ilmenau TU Ilmenau Tu Ilmenau TuB5.* Ed Control for In-Wheel-Motored oal and Local Objectives, pp. 1176- The Univ. of Tokyo Tokyo The Univ. of Tokyo The Univ.
for PET Stretch Blow Molding M Tsai, Ching-Chih Tsai, Chia-Ta 11:30-11:45 Application of Phase-Locked Locusing Damped Dynamic Vibrati Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji 11:45-12:00 Realization of Zero-Power Contest Freedom Double Parallel Magnet 1140-1145. Narisawa, Yoshinori Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji	National Chung-Hsing Univ National Chung Hsing Univ TuB3.3 op to Mass Measurement fon Absorber, pp. 1134-1139. Saitama Univ Saitama Univ TuB3.4 Trol in a Two-Degree-Ofetic Suspension System, pp. Shinshu Univ Saitama Univ Saitama Univ Saitama Univ Saitama Univ Saitama Univ Saitama Univ	Automotive Systems (2) (Rechair: Hara, Shinji 11:00-11:15 Robust Control of the Boo Subject to Model Uncertain 1175. Posielek, Tobias Wulff, Kai Reger, Johann 11:15-11:30 Hierarchically Decentralize Electric Vehicles with Glob 1181. Nguyen, Binh Minh Hara, Shinji Tsumura, Koji	Room 8 egular Session) The Univ. of Tokyo TuB5.* ast-Pressure of a Turbocharger inty and Disturbances, pp. 1170- German Aerospace Center (DLR Tech. Univ. Ilmenau Tu Ilmenau TuB5.* ed Control for In-Wheel-Motored bal and Local Objectives, pp. 1176- The Univ. of Tokyo The Univ
for PET Stretch Blow Molding M Tsai, Ching-Chih Tsai, Chia-Ta 11:30-11:45 Application of Phase-Locked Locusing Damped Dynamic Vibrati Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji 11:45-12:00 Realization of Zero-Power Contest Freedom Double Parallel Magnet 1140-1145. Narisawa, Yoshinori Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji Hara, Masayuki	National Chung-Hsing Univ National Chung Hsing Univ TuB3.3 op to Mass Measurement ion Absorber, pp. 1134-1139. Saitama Univ Saitama Univ TuB3.4 rrol in a Two-Degree-Of- etic Suspension System, pp. Shinshu Univ Saitama Univ	Automotive Systems (2) (Rechair: Hara, Shinji 11:00-11:15 Robust Control of the Bood Subject to Model Uncertain 1175. Posielek, Tobias Wulff, Kai Reger, Johann 11:15-11:30 Hierarchically Decentralize Electric Vehicles with Globert 1181. Nguyen, Binh Minh Hara, Shinji Tsumura, Koji 11:30-11:45	Room 8 egular Session) The Univ. of Tokyo TuB5.* ast-Pressure of a Turbocharger inty and Disturbances, pp. 1170- German Aerospace Center (DLR Tech. Univ. Ilmenau Tu Ilmenau TuB5.* ed Control for In-Wheel-Motored bal and Local Objectives, pp. 1176- The Univ. of Tokyo The Univ
for PET Stretch Blow Molding M Tsai, Ching-Chih Tsai, Chia-Ta 11:30-11:45 Application of Phase-Locked Locusing Damped Dynamic Vibrati Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji 11:45-12:00 Realization of Zero-Power Cont Freedom Double Parallel Magne 1140-1145. Narisawa, Yoshinori Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji Hara, Masayuki Yamaguchi, Daisuke	National Chung-Hsing Univ National Chung Hsing Univ TuB3.3 op to Mass Measurement ion Absorber, pp. 1134-1139. Saitama Univ Saitama Univ TuB3.4 rol in a Two-Degree-Of- etic Suspension System, pp. Shinshu Univ Saitama Univ	Automotive Systems (2) (Rechair: Hara, Shinji 11:00-11:15 Robust Control of the Bood Subject to Model Uncertain 1175. Posielek, Tobias Wulff, Kai Reger, Johann 11:15-11:30 Hierarchically Decentralized Electric Vehicles with Globust 1181. Nguyen, Binh Minh Hara, Shinji Tsumura, Koji 11:30-11:45 Discrete-Time LPV H2 Obstate Observer, pp. 1182-1	Room Segular Session) The Univ. of Tokyon TuB5.1 Inst-Pressure of a Turbocharger Inty and Disturbances, pp. 1170- German Aerospace Center (DLR Tech. Univ. Ilmenate Tu Ilmenate TuB5.2 Ted Control for In-Wheel-Motored Total and Local Objectives, pp. 1176- The Univ. of Tokyon The Univ. of Tokyon The Univ. of Tokyon TuB5.3 Server for Vehicle Model-Based
for PET Stretch Blow Molding M Tsai, Ching-Chih Tsai, Chia-Ta 11:30-11:45 Application of Phase-Locked Locusing Damped Dynamic Vibrati Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji 11:45-12:00 Realization of Zero-Power Contection Double Parallel Magnet 1140-1145. Narisawa, Yoshinori Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji Hara, Masayuki Yamaguchi, Daisuke TuB4 Adaptive Control and Tuning (2)	National Chung-Hsing Univ National Chung Hsing Univ TuB3.3 op to Mass Measurement ion Absorber, pp. 1134-1139. Saitama Univ Saitama Univ TuB3.4 orol in a Two-Degree-Of- etic Suspension System, pp. Shinshu Univ Saitama Univ	Automotive Systems (2) (Rechair: Hara, Shinji 11:00-11:15 Robust Control of the Bood Subject to Model Uncertain 1175. Posielek, Tobias Wulff, Kai Reger, Johann 11:15-11:30 Hierarchically Decentralized Electric Vehicles with Globusta 1181. Nguyen, Binh Minh Hara, Shinji Tsumura, Koji 11:30-11:45 Discrete-Time LPV H2 Obstate Observer, pp. 1182-1 Kang, Chang Mook	Room 8 egular Session) The Univ. of Tokyo TuB5.* ist-Pressure of a Turbocharger inty and Disturbances, pp. 1170- German Aerospace Center (DLR Tech. Univ. Ilmenau TU Ilmenau TuB5.* ed Control for In-Wheel-Motored oal and Local Objectives, pp. 1176- The Univ. of Tokyo The Univ. of Tokyo The Univ. of Tokyo TuB5.* server for Vehicle Model-Based 187. Hanyang Univ.
for PET Stretch Blow Molding M Tsai, Ching-Chih Tsai, Chia-Ta 11:30-11:45 Application of Phase-Locked Locusing Damped Dynamic Vibrati Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji 11:45-12:00 Realization of Zero-Power Cont Freedom Double Parallel Magne 1140-1145. Narisawa, Yoshinori Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji Hara, Masayuki Yamaguchi, Daisuke	National Chung-Hsing Univ National Chung Hsing Univ TuB3.3 op to Mass Measurement ion Absorber, pp. 1134-1139. Saitama Univ Saitama Univ TuB3.4 rol in a Two-Degree-Of- etic Suspension System, pp. Shinshu Univ Saitama Univ	Automotive Systems (2) (Rechair: Hara, Shinji 11:00-11:15 Robust Control of the Bood Subject to Model Uncertain 1175. Posielek, Tobias Wulff, Kai Reger, Johann 11:15-11:30 Hierarchically Decentralized Electric Vehicles with Globust 1181. Nguyen, Binh Minh Hara, Shinji Tsumura, Koji 11:30-11:45 Discrete-Time LPV H2 Obstate Observer, pp. 1182-1	Room 8 egular Session) The Univ. of Tokyo TuB5.7 inty and Disturbances, pp. 1170- German Aerospace Center (DLR Tech. Univ. Ilmenau TU Ilmenau TuB5.2 ed Control for In-Wheel-Motored oal and Local Objectives, pp. 1176- The Univ. of Tokyo The Univ. of Tokyo The Univ. of Tokyo TuB5.3 server for Vehicle Model-Based 187. Hanyang Univ.
for PET Stretch Blow Molding M Tsai, Ching-Chih Tsai, Chia-Ta 11:30-11:45 Application of Phase-Locked Locusing Damped Dynamic Vibrati Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji 11:45-12:00 Realization of Zero-Power Contection Double Parallel Magnet 1140-1145. Narisawa, Yoshinori Mizuno, Takeshi Takasaki, Masaya Ishino, Yuji Hara, Masayuki Yamaguchi, Daisuke TuB4 Adaptive Control and Tuning (2)	National Chung-Hsing Univ National Chung Hsing Univ TuB3.3 op to Mass Measurement ion Absorber, pp. 1134-1139. Saitama Univ Saitama Univ TuB3.4 orol in a Two-Degree-Of- etic Suspension System, pp. Shinshu Univ Saitama Univ	Automotive Systems (2) (Rechair: Hara, Shinji 11:00-11:15 Robust Control of the Bood Subject to Model Uncertain 1175. Posielek, Tobias Wulff, Kai Reger, Johann 11:15-11:30 Hierarchically Decentralized Electric Vehicles with Globusta 1181. Nguyen, Binh Minh Hara, Shinji Tsumura, Koji 11:30-11:45 Discrete-Time LPV H2 Obstate Observer, pp. 1182-1 Kang, Chang Mook	Room 5 egular Session) The Univ. of Tokyo TuB5.1 ast-Pressure of a Turbocharger inty and Disturbances, pp. 1170- German Aerospace Center (DLR Tech. Univ. Ilmenau TU Ilmenau TuB5.2 ed Control for In-Wheel-Motored bal and Local Objectives, pp. 1176- The Univ. of Tokyo TuB5.3 eserver for Vehicle Model-Based

Plantwide Control of Industrial-Scale Crude Distillation Unit Processes, pp. 1188-1193.

Wu, Wei National Cheng Kung Univ

TuB6	Room 6		
Intelligent and Learning Control (2) (Regular Session)			
Chair: Tao, Gang	Univ. of Virginia		
11:00-11:15	TuB6.1		
Design of Backstepping Control			
Multiparameter Estimation for F			
Synchronous Motor, pp. 1194-119			
Kim, Hyoung-Woo	Pusan National Univ		
Cho, Hyung Man	Pusan National Univ		
Park, Sung-Mun	Pusan National Univ		
Moon, Byung-Hun	Pusan National Univ		
Choi, Joon-Young	Pusan Natinal Univ		
11:15-11:30	TuB6.2		
A Multi-Objective Multi-Agent F	ramework for Traffic Light		
Control, pp. 1199-1204.			
Jin, Junchen	KTH Royal Inst. of Tech		
Ma, Xiaoliang	KTH Royal Inst. of Tech		
11:30-11:45	TuB6.3		
A Multiple-Model Adaptive Track Train Motion Control, pp. 1205-12			
Tan, Chang	East China Jiaotong Univ		
Tao, Gang	Univ. of Virginia		
Yang, Hui	East China Jiaotong Univ		
11:45-12:00	TuB6.4		
An Implicit Function Based Con			
Non-Canonical Form Neural Net	twork Systems, pp. 1211-1216.		
Zhang, Yanjun	Nanjing Univ. of Aeronautics and Astronautics		
Tao, Gang	Univ. of Virginia		
Chen, Mou	Nanjing Univ. of Aeronautics and		
	Astronautics		
Lin, Wei	Case Western Res. Univ		
TuB7	Arena B		

TuB7	Arena B	
Optimal Control and Optimization (3) (Regular Session)		
Chair: Dower, Peter M.	Univ. of Melbourne	
11:00-11:15	TuB7.1	
Hamilton-Jacobi-Bellman Equation Value Problems Constrained by Co 1217-1221.	,	
Dower, Peter M.	Univ. of Melbourne	
McEneaney, William	Univ. of California, San Diego	
11:15-11:30	TuB7.2	
A Dynamic Contract Mechanism for	or Risk-Sharing	

Management on Interdependent Electric Power and Gas Supply Networks, pp. 1222-1227. Wasa, Yasuaki Waseda U

Wasa, Yasuaki Waseda Univ HIRATA, Kenji Nagaoka Univ. of Tech Uchida, Kenko Waseda Univ 11:30-11:45 TuB7.3

Adaptive Dynamic Programming and Optimal Stabilization for Linear Systems with Time-Varying Uncertainty, pp. 1228-1233.

Zhang, Meng
Beijing Inst. of Tech
Gan, Ming-Gang
Beijing Inst. of Tech
Chen, Jie
Beijing Inst. of Tech
Beijing Inst. of Tech
New York Univ

11:45-12:00
TuB7.4

Multi-Objective Drilling Trajectory Optimization Based on NSGA-II, pp. 1234-1239.

Huang, Wendi
China Univ. of Geosicences
Wu, Min
China Univ. of Geosciences
Cheng, Jun
China Univ. of Geosciences
Chen, Xin
China Univ. of Geosciences
Cao, Weihua
China Univ. of Geosciences,
Wuhan, China
Hu, Yule
China Univ. of Geosciences
Gao, Hui
China Univ. of Geosciences

Tu1Po	Room T1	
Poster Sessions Tuesday (Interactive Session)		
15:30-17:00	Sub-session Tu1Po-01	
Robotic and Mechatronics Systems Interactive Session, 26 papers		
15:30-17:00	Sub-session Tu1Po-02	
Identification and Observation Interactive Session, 28 papers		
15:30-17:00	Sub-session Tu1Po-03	
Intelligent and Predictive Control		

Intelligent and Predictive Control Interactive Session, 24 papers

Tu1Po-01 Room	
Robotic and Mechatronics Syst	ems (Interactive Session)
Chair: Chen, Ben M.	National Univ. of Singapore
Co-Chair: Lau, Darwin	Chinese Univ. of Hong Kong
15:30-17:00	Tu1Po-01.1

Resonance Frequency Tracking Control of Ultrasonic Transducer for Diminished Haptics, pp. 1240-1245.

Takasaki, Masaya Saitama Univ Yamaguchi, Daisuke Saitama Univ Hara, Masayuki Saitama Univ Ishino, Yuji Saitama Univ Mizuno, Takeshi Saitama Univ 15:30-17:00 Tu1Po-01.2

A Method to Estimate the Axial Force Applied to a Surgical Instrument Tip Considering the Effect of the Gravity, pp. 1246-1251.

Kim, Suyong KAIST
Kim, Cheongjun Korea Advanced Inst. of Science and Tech
Lee, Doo Yong KAIST

15:30-17:00	Tu1Po-01.3	Quantifying the Control Pe Drives for Real Time Appli	erformance of Gearless Servo
<i>Hardware Adaptation of</i> <i>Autonomous Use</i> , pp. 12:	a Small Commercial ROV for	Aldag, Mario	Helmut-Schmidt-Uni
Tan, Yu Herng	National Univ. of Singapore	Horn, Joachim	Helmut-Schmidt-Univ. / Univ. o
Liu, Xiaodong	National Univ. of Singapore		the Federal Armed For
Chen, Ben M.	National Univ. of Singapore	15:30-17:00	Tu1Po-01.10
15:30-17:00	Tu1Po-01.4		thing Movement for Climbing
	n for Underactuated Three-Link	Humanoid Robots, pp. 1292	
Gymnast Robot, pp. 1258		Fukushima, Kai	Kyoto Univ
Zhang, Ancai	Linyi Univ	Satoh, Yasuyuki	Tokyo Univ. of Science
She, Jin-Hua	Tokyo Univ. of Tech	Doi, Masahiro	Toyota Motor Coporation
Qiu, Jianlong	Linyi Univ	Ohtsuka, Toshiyuki	Kyoto Univ
Yang, Chengdong	Linyi Univ	15:30-17:00	Tu1Po-01.11
zhou, lan	Hunan Univ. of Science and Tech		e Control by Fuzzy Potential
15:30-17:00	Tu1Po-01.5	Method and Model Predicti	• •
	Identification Approach for Model-	Nishio, Yuuki	Tokyo City Univ
	I Mechanism Robot Leg, pp. 1264-	Nonaka, Kenichiro	Tokyo City Univ
1269.	-3, -3, -5,	Sekiguchi, Kazuma	Tokyo City Univ
Kim, Jungyeong	Univ. of Science and Tech. (UST)	15:30-17:00	Tu1Po-01.12
Seo, Jaehong	Univ. of Science and Tech. (UST)		a Wheeled Mobile Robot Via Full-
PARK, Sangdeok	KITECH		tremum Seeking, pp. 1304-1309.
Park, ByungYun	, Korea Inst. of Industrial Tech.	Yokoyama, Makoto	Niigata Univ
	(KITECH), Robotics R&	Sugihara, Kazuya	Niigata Uni
Park, Sangsin	Korea Inst. of Industrial Tech. (KITECH), Robotics R&D	15:30-17:00	Tu1Po-01.13
Cho, Jungsan	Korea Inst. of Industrial Tech. (KITECH)	A Position Control Design Tracking of Linear Ground Controller, pp. 1310-1313.	for UAVs Low-Altitude Visual Structures by Variant PID
Kwon, Ingu	KITECH	Huang, Xiaoqian	The Petroleum Ins
15:30-17:00	Tu1Po-01.6	Shukla, Amit	The Petroleum Ins
Adaptive Neural Networ	k Control for Time-Delay	Karki, Hamad	Assistant Professo
Teleoperation with Unce		Zhang, Xiaoxiong	The Petroleum Ins
Liu, Shan	Univ. of Electronic Science and		
	Tech. of China	15:30-17:00	Tu1Po-01.14
Zhang, Xia	Univ. of Electronic Science and Tech. of China		rs to Estimate the Curvatures of erlying Swimming at Low Reynolds
Zheng, Wenfeng	Univ. of Electronic Science and Tech. of China	Abrajan-Guerrero, Rodrigo	Univ. of North Carolina a
Yang, Bo	Shanghai Jiao Tong Univ		Charlotte
15:30-17:00	Tu1Po-01.7	Bhansali, Rakshit	Univ. of North Carolina a Charlotte
a Sequence of Points: A	Trajectory Planning for a UAV through Perturbation Approach, pp. 1276-	Kelly, Scott	Univ. of North Carolina a Charlotte
1281. Maini Darikahit	liit D	15:30-17:00	Tu1Po-01.15
Maini, Parikshit	liit D	Development of Practical A	Application for Sensorless Crane
Rathinam, Sivakumar	Texas a & M Univ	Control System, pp. 1320-1	
Sujit, P. B	IIITD	Masaomi, Wada	Hitachi, Ltd
15:30-17:00	Tu1Po-01.8	Yoshihito, Mori	Tokyo Univ. of Agriculture and
An AR-Based Manipulati 1282-1285.	ion System for Industrial Robots, pp.	Tagawa, Yasutaka	Tech Tokyo Univ. of Agriculture and
Su, Yu-Hsuan	National Chiao Tung Univ	<u> </u>	Tecl
Liao, Chen Fong	National Chiao Tung Univ	Kiyotada, Honma	Hitachi Plant Mechanics Co
Ko, Chun-hsu	I-Shou Univ	15:30-17:00	Tu1Po-01.10
Shu-ling, Cheng	Far East Univ	Motion Planning for a Knife	
Young, Kuu-young	National Chiao-Tung Univ	Hyperboloid, pp. 1326-1330.	
		7.1	

Reyhanoglu, Mahmut	Embry-Riddle Aeronautical Univ	15:30-17:00	Tu1Po-01.25
McClamroch, N. Harris 15:30-17:00	Univ. of Michigan Tu1Po-01.17	Contact Force Distribution Wearable Robot with Tacti	Predictive Control System for ile Sensors, pp. 1373-1378.
Using Fish-Eye Stereo Visi	on System for Autonomous	Sato, Asuka	Nagoya Univ
Vehicles, pp. 1331-1334.	•	Funabora, Yuki	Nagoya Univ
Samadi, Masoud	Univ. Teknologi Malaysia	Doki, Shinji	Nagoya Univ
Othman, Mohd Fauzi	Univ. Teknologi Malaysia	Doki, Kae	Aichi Inst. of Tech
15:30-17:00	Tu1Po-01.18	15:30-17:00	Tu1Po-01.26
Finite-Time Control of a Copp. 1335-1340.	ompliant Base Robot Manipulator,	Suggestion and Verificatio pp. 1379-1383.	n of the Modular Robot Education,
Reyhanoglu, Mahmut	Univ. of North Carolina at Asheville	Mitsuhashi, Kaoru Yasuhiro, Ohyama	Pol. Univ. of Japar Tokyo Univ. of Tech
Hoffman, Derek	Embry-Riddle Aeronautical Univ	,	,
15:30-17:00	Tu1Po-01.19	T::4P - 00	D T.
A Backstepping Design Apppp. 1341-1344.	proach to a Class of Mobile Robots,	Tu1Po-02 Identification and Observati	Room T1 on (Interactive Session)
Al-shamali, Saleh	Kuwait Univ	Chair: Iftar, Altug	Anadolu Univ
15:30-17:00	Tu1Po-01.20	Co-Chair: Zhao, Jun	Dalian Univ. of Tech. Dalian Liaoning
Performance Control Syste Robot, pp. 1345-1350.	em of Dulcimer Music-Playing	15:30-17:00	Tu1Po-02.1
Fei, Ting	China Univ. of Geosciences		ne Parameter Estimation with
Chen, Xin	China Univ. of Geosciences	Relaxed Persistence of Exc	
Jiang, Chen Xu	China Univ. of Geosciences	Zhi, Jianhui	Air Force Engineering Univ
Zhou, Li	China Univ. of Geosciences	Dong, Xinmin	Aeronautics and Astronautics Engineering Coll. Air Force Eng
Liu, Zhentao	China Univ. of Geosciences	Chen, Yong	Aeronautics and Astronautics Engineering Coll. Air Force Eng
15:30-17:00	Tu1Po-01.21	Liu, Zongcheng	Aeronautics and Astronautics
Experiments and Formal M	Control of Human Behavior - Modeling -, pp. 1351-1356.		Engineering Coll. Air Force Eng
Hiraishi, Kunihiko	JAIST	Shi, Chao	Aeronautics and Astronautics
Uchihira, Naoshi	Japan Advanced Inst. of Science		Engineering Coll. Air Force Eng
	and Tech	15:30-17:00	Tu1Po-02.2
CHOE, Sunseong	Osaka Univ. of Ec. and Law		ation of a Lumped Model for an Web Transport System, pp. 1389-
Kobayashi, Koichi	Hokkaido Univ	1394.	veb Transport System, pp. 1309-
15:30-17:00	Tu1Po-01.22	Giannoccaro, Nicola Ivan	Univ. of Salento
Development of Mobile Op 1357-1360.	peration System of a Vehicle, pp.	Manieri, Giancarlo	Univ. of Salento
Okada, Ryosuke	Tokyo Denki Univ	Martina, Paolo	Univ. of Salento
Hatakeyama, Shoshiro	Tokyo Denki Univ	Sakamoto, Tetsuzo	Kyushu Inst. of Tech
Iwase, Masami	Tokyo Denki Univ	15:30-17:00	Tu1Po-02.3
15:30-17:00	Tu1Po-01.23	Densities and Trajectories	he Identification of Heat Flux of Two Mobile Heating Sources, pp.
Hand and Finger Control o Discriminator and Voluntai	of Myo-Prosthesis Based on Motion	1395-1400.	Hair of Arman 9 Ting Oings Hair
HIROKI, RISAKO	Tokyo Denki Univ	TRAN, Thanh Phong PEREZ, Laetitia	Univ. of Angers & Tien Giang Univ
Iwase, Masami	Tokyo Denki Univ	FEREZ, Laetitia	Lab De Thermocinétique De Nantes
15:30-17:00	Tu1Po-01.24	AUTRIQUE, Laurent	Univ. of Angers
	ystem for Electric Wheelchair Using	15:30-17:00	Tu1Po-02.4
Laser Range Finder, pp. 136 Ohtsuka, Hirofumi			Narping Algorithm with Adaptive ckness Matching, pp. 1401-1405.
ooana, i moranii	Coll	SONG, XIAOHAN	Dalian Univ. of Tech
Shibasato, Koki	National Inst. of Tech. Kumamoto	LV, ZHENG	Dalian Univ. of Tech
Shimada, Yasuyuki	Coll National Inst. of Tech. Kumamoto	Zhao, Jun	Dalian Univ. of Tech. Dalian Liaoning
Kato, Tatsuya	Coll Kumamoto National Coll. of Tech	Wang, Wei	Dalian Univ. of Tech

	Liaoning	Optimization with L0 Norm	Constraint, pp. 1443-1448.
15:30-17:00	Tu1Po-02.5	Ichikawa, Mai	Kyushu Inst. of Tecl
	on with Robust Kalman Filter, pp.	Sebe, Noboru	Kyushu Inst. of Tecl
1406-1410.		Suyama, Koichi	Tokyo Univ. of Marine Science and Tecl
Li, Keyu	United Tech. Res. Center	Indriawati, Katherin	Inst. Teknologi Sepuluh Novembe
Zhang, Kai	United Tech. Res. Center (China)	manawati, Ratherin	Surabaya (ITS
15:30-17:00	Tu1Po-02.6	15:30-17:00	Tu1Po-02.1
Fractional Order Systems for Applications, pp. 1411-1416.		Observer Based Control of a	a Brushed DC Motor at Very Low a Network: An Application in
De Keyser, Robin M.C.	Ghent Univ	Tripurari, Kumar S.	Aryabhatta Res. Inst. o
Ionescu, Clara	Ghent Univ		Observational Science
15:30-17:00	Tu1Po-02.7	Banavar, Ravi N.	Indian Inst. of Tec
	rrors-In-Variables Systems in Parameter Varying Approach, pp.	15:30-17:00 Circuit Realization of a Hybr	Tu1Po-02.14
Wu, Ouyang	Basf Se	Communication System Over	<i>er a Noisy Receiver</i> , pp. 1454-1459.
Kodamana, Hariprasad	IIT Kharagpur	GHANES, Malek	Centrale Nante
Li, Juan	Qingdao Agricultural Univ	Barbot, Jean Pierre	ENSE
Huang, Biao	Univ. of Alberta	15:30-17:00	Tu1Po-02.1
Forbes, J Fraser	Univ. of Alberta		h Disturbance Estimation and
15:30-17:00	Tu1Po-02.8	Compensation for Discrete- 1463.	Time Linear Systems, pp. 1460-
Research on Speed Sensorle Improved MRAS, pp. 1423-142	ess Operation of PMSM Based on	Kang, Dongyeop	Electronics an Telecommunications Res. In:
xu, jian	Jiangsu Univ	Li, Song	Electronics an
xu, bo	Jiangsu Univ		Telecommunications Res. Ins
ji, wei	Jiangsu Univ	15:30-17:00	Tu1Po-02.1
shi, guoding	Jiangsu Univ	ESO-Based Repetitive Cont.	rol for Rejecting Periodic and
Ding, Shihong	Jiangsu Univ	Aperiodic Disturbances in P 1469.	iezoelectric Actuators, pp. 1464-
15:30-17:00	Tu1Po-02.9	Bombuwela, Don Suneth	Swinburne Univ. of Tec
	proach to Signal Recovery and	Sayem, A.H.M	Swinburne Univ. of Tec
	on for Nonlinear ARX Model with	Cao, Zhenwei	Swinburne Univ. of Tec
Input Nonlinearity, pp. 1428-1 Konishi, Katsumi	Kogakuin Univ	Man, Zhihong	Faculty of Engineering, Swinburn
Fujii, Masashi	Univ. of Tokyo	-	Univ. of Tec
Kunida, Katsuyuki	Univ. of Tokyo	Rsetam, Kamal	Swinburne Univ. of Tec
Uda, Shinsuke	Kyushu Univ	15:30-17:00	Tu1Po-02.1
Kuroda, Shinya	Univ. of Tokyo	Observer Design and Analy	sis of Wnt-Cell Cycle Joint
15:30-17:00	Tu1Po-02.10	Pathway, pp. 1470-1475.	0 " 111 : 10 : 17 1
Modeling the Aerodynamics Simulation and Control Purp	of Wind Turbines for Real-Time oses, pp. 1432-1437.	Khattak, Muhammad Nawaz Sharif	Capital Univ. of Science and Tech Islamabad Pakista
Gambier, Adrian	Fraunhofer Inst. for Wind Energy and Energy System Tech	Bhatti, Aamer Iqbal Bhatti	Capital Univ. of Sciences & Tech Islamaba Capital Univ. of Science and Tech
Gebhardt, Cristian Guillermo	Leibniz Univ. Hannover, Inst. of Structural Analysis	Fazal, Sahar Fazal	Islamabad Pakista
15:30-17:00	Tu1Po-02.11	15:30-17:00	Tu1Po-02.1
Gasoline Dry Point Prediction		Failure of Aircraft, pp. 1476-7	
Xu, Xue	Northeastern Univ	Yoshikawa, Nobuyuki	The Univ. of Toky
Liu, Qiang	Northeastern Univ	Belkhir, Nacim	INRI.
Ding, Jinliang	Northeastern Univ	Suzuki, Shinji	The Univ. of Toky
15:30-17:00	Tu1Po-02.12	15:30-17:00	Tu1Po-02.19

the Length of Measured Data 1482-1486.	to Identification Result, pp.	Robust Fault Detection for N Based on Disturbance Obse	Multi-Motor Winding System rver and Sliding-Mode Observer,
Zhou, Shuqiao	Tsinghua Univ	pp. 1519-1524.	,
Guo, Chao	Tsinghua Univ	Chu, Xiaoyan	Central South Univ
Huang, Xiaojin	Tsinghua Univ	Nian, Xiaohong	Central South Univ
15:30-17:00	Tu1Po-02.20	Liu, Jingjing	Central South Univ
		Liao, Ye	Central South Univ
	Monitoring Using Decentralized Analysis and Bayesian Inference,	15:30-17:00	Tu1Po-02.27
Cang, Wentao	Jiangnan Univ	Application to Diesel Engine	n of Time-Delay Systems: An
Fu, Yujia	Jiangnan Univ	ozer, suleyman mert	Anadolu Univ
Xie, Li	Jiangnan Univ	Iftar, Altug	Anadolu Univ
Tao, Hongfeng	Jiangnan Univ		
YANG, Huizhong	Jiangnan Univ	15:30-17:00	Tu1Po-02.28
	Tu1Po-02.21	Output Feedback Optimal Control Delayed Systems, pp. 1531-1	
15:30-17:00		Choudhary, Niraj	IIT Delh
Fault Identification with Modi Contribution Based on Kernel pp. 1493-1498.	fied Reconstruction-Based Principal Component Analysis,	Janardhanan, S	IIT Delh
Kitano, Koji	Kyoto Univ	Kar, Indra Narayan	Indian Inst. of Tech. Delh
Kano, Manabu	Kyoto Univ		
Gopaluni, Bhushan	Univ. of British Columbia	Tu1Po-03	Room T
		Intelligent and Predictive Con	
15:30-17:00	Tu1Po-02.22	Chair: Date, Hisashi	Univ. of Tsukuba
Operating Performance Asses	ssment for Multi-Mode red on Rough Set, pp. 1499-1504.	Co-Chair: Hu, Guogiang	Nanyang Tech. Univ
Chang, Yuqing	Northeastern Univ	15:30-17:00	Tu1Po-03.1
Zhuang, Huan	Northeastern Univ	A Model Reference Adaptive	near Systems, pp. 1537-1542.
Ma, Ruxue	Northeastern Univ	Fu, Hao	China Univ. of Geosciences
ZHAO, Luping	Northeastern Univ	Chen, Xin	China Univ. of Geosciences
Wang, Shu	Northeastern Univ	Wang, Wei	China Univ. of Geosciences
15:30-17:00	Tu1Po-02.23	 	
A Study on Anomaly Prediction Feature Extraction for Anoma			Tu1Po-03.2 with Initial Rectifying for Nonlinear
Fujita, Ryo	Shibaura Inst. of Tech	Robotic System, pp. 1543-154	
Yoshimi, Takashi	Shibaura Inst. of Tech	Su, Xiaofeng	Beijing Inst. of Astronautica
15:30-17:00	Tu1Po-02.24 or and Controller Coordinated	Huang, Chen	Systems Engineering Beijing Inst. of Astronautica Systems Engineering
Design of Discrete-Time Nonl Model, pp. 1509-1512.		Wang, Wenming	Beijing Inst. of Astronautica Systems Engineering
Xia, Fengqin	Chongqing Univ. Coll. of Automation	Yi, Hang	Beijing Inst. of Astronautica Systems Engineering
Su, Xiaojie	Chongqing Univ	15:30-17:00	Tu1Po-03.3
Chai, Yi	Chongqing Univ		ion of Belt Conveyors Based on
15:30-17:00	Tu1Po-02.25	Finite-Time Recurrent Neura	al Networks, pp. 1548-1553.
	Observer-Based Approach for a ems with Switching Topologies,	Shen, Yanjun Yu, Yu	China Three Gorges Univ Hubei Provincial Coll. Innovatior Center for New Energy
Nguyen, Thi Thanh Quynh	Univ. of Reims Champagne Ardenne	Miao, Peng	Zhengzhou Coll. of Science & Tecl
Messai, Nadhir	Univ. De Reims Champagne-	Yu, Hui	China Three Gorges Univ
Martinoz Martinoz Ciaubá	Ardenne	shaocheng, Qu	Central China Normal Univ
Martinez-Martinez, Sinuhé	Univ. of Reims Champagne- Ardenne	15:30-17:00	Tu1Po-03.4
Manamanni, Noureddine	Univ. of Reims Champagne Ardenne	Evaluation of Missing Values 1554-1559.	s Estimation by Multiple SOMs, pp
15:30-17:00	Tu1Po-02.26	Esaki, Yuya	Kitakyushu Univ

Okada, Nobuhiro	The Univ. of Kitakyushu	15:30-17:00	Tu1Po-03.13
15:30-17:00	Tu1Po-03.5		ictive Control of Bilinear HVAC exification Method, pp. 1608-1613.
Comparison of Different Model- Control Methods Concerning a		Wang, Zheming	Nanyang Tech. Univ
<i>Structure</i> , pp. 1560-1565.	Nonmiedi i reenamedi	Hu, Guogiang	Nanyang Tech. Univ
Madadi, Elmira	Univ. of Duisburg-Essen	Spanos, Costas J.	Univ. of California at Berkeley
Söffker, Dirk	Univ. of Duisburg-Essen	15:30-17:00	Tu1Po-03.14
15:30-17:00	Tu1Po-03.6		nt MPC for Systems with Partial
A Maximum Principle for a Spe- Problem with State Constraints		Actuator Failures, pp. 16	614-1619.
de Pinho, Maria do Rosario	Feup, Univ. Do Porto	Wang, Haokun	Hangzhou Dianzi Univ
Zidani, Housnaa	ENSTA	Jiang, Aipeng	Hangzhou Dianzi Univ
15:30-17:00	Tu1Po-03.7	15:30-17:00	Tu1Po-03.15
RHO-Based Convex Optimization	on Method Applied to	Parallelized Nonlinear N 1620-1625.	Model Predictive Control on GPU, pp.
Cooperative Trajectory Plannin 1577.	g for Multiple UAVs, pp. 1572-	Ohyama, Shimpei	Univ. of Tsukuba
Zhou, Hui	Roihana Univ	Date, Hisashi	Univ. of Tsukuba
Cai, Zhihao	Beihang Univ Beihang Univ	15:30-17:00	Tu1Po-03.16
Zhao, Jiang	Beihang Univ	Augmented Model Pred	lictive Control of Unmanned Quadrotor
Wang, Yingxun	Beihang Univ	Vehicle, pp. 1626-1631.	
15:30-17:00	Tu1Po-03.8	Kuyumcu, Arden Bayezit, Ismail	Univ
Design of Mixed Static/dynamic			Istanbul Tech. Univ
Using Multi-Objective Distribute pp. 1578-1583.		15:30-17:00 Generalized Predictive	Tu1Po-03.17 Control of DEAP Actuator Based on
Chun, Semin	Chung-Ang Univ	RBF Neural Network, pp	
Choi, Gihoon	JST&lab Co. Ltd	Jiang, Zhaoguo	Beijing Inst. of Tech
Kim, Tae-Hyoung	Chung-Ang Univ	Wang, Qinglin	Beijing Inst. of Tech
15:30-17:00	Tu1Po-03.9	Li, Yuan	Beijing Inst. of Tech
A Cross-Layer Design for Powe	r Flow Control in Smart Grids,	15:30-17:00	Tu1Po-03.18
pp. 1584-1589.			ing Extreme Learning Machine with
Chiu, Wei-Yu	National Tsing Hua Univ	Immune Optimization, Zhang, Jinxi	pp. 1636-1643. Donghua Univ
LIN, GUAN-TING	National Tsing Hua Univ	Ding, Yongsheng	Donghua Univ
15:30-17:00	Tu1Po-03.10	Hao, Kuangrong	Donghua Univ
Simulation of a Model-Based Pi		Chen, Lei	Donghua Univ
<i>Optimize the Methane Producti</i> 1590-1595.	on of a Biogas Reactor, pp.	Ren, Lihong	Donghua Univ
Attar, Shadi	Univ. Coll. of Southeast Norway	15:30-17:00	Tu1Po-03.19
Haugen, Finn Aakre	Univ. Coll. of Southeast Norway		ing Point Detection in Dense Cluster,
15:30-17:00	Tu1Po-03.11	pp. 1644-1649.	ng rome beteetion in beinse claster,
Solution of Complex Optimal C		Liu, Wenhai	Shanghai Jiao Tong Univ
Varying Parameters and Bound		Pan, Zhenyu	Shanghai Jiao Tong Univ
1601.		Shao, Quanquan	Shanghai Jiao Tong Univ
Jiang, Aipeng	Hangzhou Dianzi Univ	Hu, Jie	Shanghai Jiao Tong Univ
Wang, Haokun	Hangzhou Dianzi Univ	Wang, Weiming	Shanghai Jiao Tong Univ. School of Mechanical Engineering
Chen, Yun	Zhejiang Univ	Ma, Jin	Shanghai Jiao Tong Univ. School
Ding, Qiang Jiangzhou, Shu	Hangzhou Dianzi Univ Hangzhou Dianzi Univ	ivia, Jiii	of Mechanical Engineering
		Qi, Jin	Shanghai Jiao Tong Univ
15:30-17:00 Experimental Verification of Fo	Tu1Po-03.12 rmation Control by Model	Zhao, Wenjun	State Key Lab. of Smart Manufacturing for Special Vehicles
Predictive Control Considering Dimensional Space with Quado	Collision Avoidance in Three	Du, Shaofeng	The State Key Lab. of Smart Manufacturing for Special Vehi
Yamamoto, Kenta	Tokyo City Univ	Liu, Weijie	Shanghai Jiao Tong Univ
Sekiguchi, Kazuma	Tokyo City Univ		
Nonaka, Kenichiro	Tokyo City Univ	15:30-17:00	Tu1Po-03.20

Hemodynamic Effects of Left Cerebral Artery Stenosis During	1
Antegrade Cerebral Perfusion, pp. 1650-1654.	

Han, Lu Shanghai Children's Medical Center Affiliated to Shanghai Jiao

Liu, Jinlong Shanghai Children's Medical

Center Affiliated to Shanghai Jiao

Shanghai Children's Medical Wang, Wei

Center Affiliated to Shanghai Jiao

15:30-17:00 Tu1Po-03.21

A Numerical Study of Hepatic Artery Flow for Prediction of Congenital Biliary Atresia, pp. 1655-1659.

Shen, Juanya Shanghai Children's Medical

Center (SCMC) Affiliated

Shanghai Ji

Shanghai Children's Medical Shi, Jing

Center (SCMC) Affiliated

Shanghai Ji

Center Affiliated to Shanghai Jiao

Liu, Jinlong

Tu, Zhigang

Shanghai Children's Medical

Shanghai Children's Medical Deng, Chaohui

Center (SCMC) Affiliated Shanghai Ji

Wang, Qian Shanghai Children's Medical

Center (SCMC) Affiliated

Shanghai Ji

Shanghai Children's Medical Du, Jun

Center (SCMC) Affiliated Shanghai Ji

15:30-17:00 Tu1Po-03.22

Semantic Translation with Convolutional Encoder-Decoder Networks for Viewpoint Estimation, pp. 1660-1665.

Zhang, Liangjun Shanghai Jiao Tong Univ Gu, Changjian Shanghai Jiaotong Univ Gu, Chaochen Shanghai Jiao Tong Univ Wu, Kaijie Shanghai Jiao Tong Univ Guan, Xinping Shanghai Jiao Tong Univ

15:30-17:00 Tu1Po-03.23

A Framework Based on Deep Learning and Mathematical Morphology for Cabin Door Detection in an Automated Aerobridge Docking System, pp. 1666-1671.

Jin, Ruibing Nanyang Tech. Univ Andonovski, Bojan Nanyang Tech. Univ

> Nanyang Tech. Univ. School of EEE

Nanyang Tech. Univ Wang, Jianliang yuan, Junsong

Nanyang Tech. Univ. School of

Tham, Desmond Mark Singapore Tech. Dynamics Pte Ltd

15:30-17:00 Tu1Po-03.24

Estimation System of Construction Equipment from Field Image by Combination Learning of Its Parts, pp. 1672-1676.

Fujitake, Masato Shibaura Inst. of Tech Yoshimi, Takashi Shibaura Inst. of Tech

Interactive Paper Presentation Session (Poster Papers) - Tuesday 19 Dec 2017 Foyer F, 15:30-17:00			
Poster Board	Paper Title	Session	Paper ID
1	Resonance Frequency Tracking Control of Ultrasonic Transducer for Diminished Haptics	Robotics and Mechatronic Systems	608
2	A Method to Estimate the Axial Force Applied to a Surgical Instrument Tip Considering the Effect of the Gravity	Robotics and Mechatronic Systems	309
3	Hardware Adaptation of a Small Commercial ROV for Autonomous Use	Robotics and Mechatronic Systems	419
4	Motion Trajectory Design for Underactuated Three-Link Gymnast Robot	Robotics and Mechatronic Systems	341
5	Simplified Modeling and Identification Approach for Model-Based Control of Parallel Mechanism Robot Leg	Robotics and Mechatronic Systems	489
6	Adaptive Neural Network Control for Time-Delay Teleoperation with Uncertainties	Robotics and Mechatronic Systems	430
7	Curvature Constrained Trajectory Planning for a UAV through a Sequence of Points: A Perturbation Approach	Robotics and Mechatronic Systems	616
8	An AR-Based Manipulation System for Industrial Robots	Robotics and Mechatronic Systems	372
9	Quantifying the Control Performance of Gearless Servo Drives for Real Time Applications	Robotics and Mechatronic Systems	92
10	Optimization of Limb Reaching Movement for Climbing Humanoid Robots	Robotics and Mechatronic Systems	247
11	Moving Obstacle Avoidance Control by Fuzzy Potential Method and Model Predictive Control	Robotics and Mechatronic Systems	584
12	Pitching Motion Control of a Wheeled Mobile Robot Via Full-State Linearization and Extremum Seeking	Robotics and Mechatronic Systems	614
13	A Position Control Design for UAVs Low-Altitude Visual Tracking of Linear Ground Structures by Variant PID Controller	Robotics and Mechatronic Systems	523
14	Using Physical Experiments to Estimate the Curvatures of Principal Connections Underlying Swimming at Low Reynolds Number	Robotics and Mechatronic Systems	627
15	Development of Practical Application for Sensorless Crane Control System	Robotics and Mechatronic Systems	176
16	Motion Planning for a Knife-Edge on the Surface of a Hyperboloid	Robotics and Mechatronic Systems	32
17	Using Fish-Eye Stereo Vision System for Autonomous Vehicles	Robotics and Mechatronic Systems	426
18	Finite-Time Control of a Compliant Base Robot Manipulator	Robotics and Mechatronic Systems	29
19	A Backstepping Design Approach to a Class of Mobile Robots	Robotics and Mechatronic Systems	35
20	Performance Control System of Dulcimer Music-Playing Robot	Robotics and Mechatronic Systems	224
21	Information Supervisory Control of Human Behavior - Experiments and Formal Modeling -	Robotics and Mechatronic Systems	163
22	Development of Mobile Operation System of a Vehicle	Robotics and Mechatronic Systems	481
23	Hand and Finger Control of Myo-Prosthesis Based on Motion Discriminator and Voluntary Control	Robotics and Mechatronic Systems	480
24	Hand-Free Maneuvering System for Electric Wheelchair Using Laser Range Finder	Robotics and Mechatronic Systems	268
25	Contact Force Distribution Predictive Control System for Wearable Robot with Tactile Sensors	Robotics and Mechatronic Systems	504
26	Suggestion and Verification of the Modular Robot Education	Robotics and Mechatronic Systems	248
27	Robust Adaptive Finite Time Parameter Estimation with Relaxed Persistence of Excitation	Identification and Observation	221
28	Implementation and Validation of a Lumped Model for an Experimental Multi-Span Web Transport System	Identification and Observation	420
29	Quasi-Online Method for the Identification of Heat Flux Densities and Trajectories of Two Mobile Heating Sources	Identification and Observation	450
30	Improved Dynamic Time Warping Algorithm with Adaptive Scaling for Steel Plate Thickness Matching	Identification and Observation	380

31	Building Occupancy Estimation with Robust Kalman Filter	Identification and Observation	47
32	Minimal information based, simple identification method of fractional order systems for model-based control applications	Identification and Observation	79
33	Identification of Nonlinear Errors-In-Variables Systems in State-Space Form: A Linear Parameter Varying Approach	Identification and Observation	217
34	Research on Speed Sensorless Operation of PMSM Based on Improved MRAS	Identification and Observation	349
35	Matrix Rank Minimization Approach to Signal Recovery and Nonlinear Function Estimation for Nonlinear ARX Model with Input Nonlinearity	Identification and Observation	66
36	Modeling the aerodynamics of wind turbines for real-time simulation and control purposes	Identification and Observation	625
37	Gasoline Dry Point Prediction of Fractionation Processes Using Dynamic Inner Partial Least Squares	Identification and Observation	31
38	A Bias Fault Estimation of Actuators and Sensors by Optimization with I0 norm Constraint	Identification and Observation	455
39	Observer Based Control of a Brushed DC Motor at Very Low Speeds Over Controller Area Network: An Application in Astronomical Telescopes	Identification and Observation	276
40	Circuit Realization of a Hybrid Delay Chaotic Secure Communication System Over a Noisy Receiver	Identification and Observation	496
41	State Feedback Control with Disturbance Estimation and Compensation for Discrete-Time Linear Systems	Identification and Observation	512
42	ESO-Based Repetitive Control for Rejecting Periodic and Aperiodic Disturbances in Piezoelectric Actuators	Identification and Observation	237
43	Observer Design and Analysis of Wnt-Cell Cycle Joint Pathway	Identification and Observation	18
44	Recurrent Neural Network-Based Fault Detector for Aileron Failure of Aircraft	Identification and Observation	553
45	Transient Identification for Nuclear Power Plants: Effect of the Length of Measured Data to Identification Result	Identification and Observation	592
46	Nonlinear Chemical Process Monitoring Using Decentralized Kernel Principal Component Analysis and Bayesian Inference	Identification and Observation	65
47	Fault Identification with Modified Reconstruction-Based Contribution Based on Kernel Principal Component Analysis	Identification and Observation	509
48	Operating Performance Assessment for Multi-Mode Hydrometallurgy Process Based on Rough Set	Identification and Observation	411
49	A Study on Anomaly Prediction Method of Machine Tools - Feature Extraction for Anomaly Prediction -	Identification and Observation	577
50	Event-Triggered Fault Detector and Controller Coordinated Design of Discrete-Time Nonlinear Systems in T-S Fuzzy Model	Identification and Observation	501
51	A Distributed Fault Detection Observer-Based Approach for a Network of Multi-Agent Systems with Switching Topologies	Identification and Observation	598
52	Robust Fault Detection for Multi-Motor Winding System Based on Disturbance Observer and Sliding-Mode Observer	Identification and Observation	37
53	Observer-Based Stabilization of Time-Delay Systems: An Application to Diesel Engine	Identification and Observation	505
54	Output Feedback Optimal Control of Fractional Order Delayed Systems	Identification and Observation	524
55	A Model Reference Adaptive Control with ADP-To-SMC Strategy for Unknown Nonlinear Systems	Intelligent and Predictive Control	566
56	Iterative Learning Control with Initial Rectifying for Nonlinear Robotic System	Intelligent and Predictive Control	117
57	Energy Efficiency Optimization of Belt Conveyors Based on Finite-Time Recurrent Neural Networks	Intelligent and Predictive Control	3
58	Evaluation of Missing Values Estimation by Multiple SOMs	Intelligent and Predictive Control	294
59	Comparison of Different Model-Free Iterative Learning Control Methods Concerning a Nonlinear Mechanical Structure	Intelligent and Predictive Control	59
60	RHO-based Convex Optimization Method Applied to Cooperative Trajectory Planning for Multiple UAVs	Intelligent and Predictive Control	223
61	Design of Mixed Static/dynamic Output Feedback Controller Using Multi-Objective Distribute Particle Swarm Optimization	Intelligent and Predictive Control	336
62	A Cross-Layer Design for Power Flow Control in Smart Grids	Intelligent and Predictive Control	169
63	Simulation of a Model-Based Predictive Control System to Optimize the Methane Production of a Biogas Reactor	Intelligent and Predictive Control	396
64	Solution of Complex Optimal Control Problem with Time Varying Parameters and Bound State Constraints	Intelligent and Predictive Control	281
			•

65	Experimental Verification of Formation Control by Model Predictive Control Considering Collision Avoidance in Three Dimensional Space with Quadcopters	Intelligent and Predictive Control	576
66	Distributed Model Predictive Control of Bilinear HVAC Systems Using a Convexification Method	Intelligent and Predictive Control	434
67	An Active Fault-Tolerant MPC for Systems with Partial Actuator Failures	Intelligent and Predictive Control	240
68	Parallelized Nonlinear Model Predictive Control on GPU	Intelligent and Predictive Control	613
69	Augmented Model Predictive Control of Unmanned Quadrotor Vehicle	Intelligent and Predictive Control	607
70	Generalized Predictive Control of DEAP Actuator Based on RBF Neural Network	Intelligent and Predictive Control	41
71	A Prediction Method Using Extreme Learning Machine with Immune Optimization	Intelligent and Predictive Control	401
72	Deep Learning for Picking Point Detection in Dense Cluster	Intelligent and Predictive Control	522
73	Hemodynamic Effects of Left Cerebral Artery Stenosis During Antegrade Cerebral Perfusion	Intelligent and Predictive Control	555
74	A Numerical Study of Hepatic Artery Flow for Prediction of Congenital Biliary Atresia	Intelligent and Predictive Control	570
75	Semantic Translation with Convolutional Encoder-Decoder Networks for Viewpoint Estimation	Intelligent and Predictive Control	201
76	A Framework Based on Deep Learning and Mathematical Morphology for Cabin Door Detection in an Automated Aerobridge Docking System	Intelligent and Predictive Control	298
77	Estimation System of Construction Equipment from Field Image by Combination Learning of Its Parts	Intelligent and Predictive Control	466

ASCC 2017

Wednesday Sessions



Technical Program for Wednesday December 20, 2017

WeAPI	Arena B
Plenary Session (3) (Plenary Session Chair: Lau, Darwin	Chinese Univ. of Hong Kong
08:30-09:30	WeAPI.1
A Symmetric Perspective on Simultan	
Mapping*.	
Mahony, Robert	Australian National Univ
WeA1	Room 1
Aerospace Engineering (1) (Regular	•
Chair: Mumm, Nils Christian	Tech. Univ. München
10:00-10:15	WeA1.1
System Identification & Attitude with Flight Test, pp. 1677-1682.	Control of Avian-Type Flyer
Oh, Jangjin	Chungnam National Univ
Kim, Seongyoung	Chungnam National Univ
Lee, Byoungju	Chungnam National Univ
Kim, Seungkeun	Chungnam National Univ
Suk, Jinyoung	Chungnam National Univ
10:15-10:30	WeA1.2
Automatic Takeoff of a General App. 1683-1688.	viation Research Aircraft,
Zollitsch, Alexander Wolfgang	Tech. Univ. München
Mumm, Nils Christian	Tech. Univ. München
Wulf, Simona	Tech. Univ. München
Holzapfel, Florian	Tech. Univ. München
Hochstrasser, Markus	Tech. Univ. München
Lauffs, Patrick Jonathan	Tech. Univ. München
Peter, Lars	Tech. Univ. München
10:30-10:45	WeA1.3
Design and Testing of a Ground F Tracking Controller for a General pp. 1689-1694.	
Mumm, Nils Christian	Tech. Univ. München
Zollitsch, Alexander Wolfgang	Tech. Univ. München
Schatz, Simon Philipp	Tech. Univ. München
Wulf, Simona	Tech. Univ. München
Holzapfel, Florian	Tech. Univ. München
Lauffs, Patrick Jonathan	Tech. Univ. München
Peter, Lars	Tech. Univ. München
10:45-11:00	WeA1.4
Step Response Based Identification Application to Mach Number Drift Tunnel, pp. 1695-1700.	on of Hammerstein Models:
Zhang, Jian	Univ. of Hong Kong
WeA2	Room 2

Chair: Liao, Fang

10:00-10:15 Li, Chaolin The 802 Inst. of Shanghai Acad Wu, Xiongjun Shi, Songhua Zhou, Jialing 10:15-10:30 Room 2 Guaranteed Cost Control of Quadratic Time-Delay Systems, Cooperative Control (1) (Regular Session) pp. 1731-1736. National Univ. of Singapore

10:00-10:15 WeA2.1

Adaptive Model-Free Consensus Control for a Network of Nonlinear Agents under the Presence of Measurement Noise, pp. 1701-1706.

Safaei. Ali

PhD. Candidate. School of **Electrical and Electronics** Engineering

Mahyuddin, Muhammad Univ. Sains Malaysia

Nasiruddin

10:15-10:30 WeA2.2

Motion Planning of UAV Platooning in Unknown Cluttered Environment, pp. 1707-1712.

Liao, Fang National Univ. of Singapore National Univ. of Singapore Hu, Yuchao Cui, Jingiang NUS Tang, Yaze National Univ. of Singapore Lao, Mingjie National Univ. of Singapore Lin, Feng National Univ. of Singapore Teo, Rodney Temasek Lab. National Univ. of Singapore Lai, Shupeng National Univ. of Singapore Wang, Jianliang Nanyang Tech. Univ 10:30-10:45 WeA2.3

Adaptive Consensus Control of Coopetition Networks with High-Order Agent Dynamics, pp. 1713-1718.

WU, Yanzhi Univ. of Electronic Science and

Tech. of China

Hu, Jiangping Univ. of Elec. Sci. and Tech. of China

WeA2.4

Gao, Lixin Wenzhou Univ Ghosh, Bijoy Texas Tech. Univ 10:45-11:00

Barrier Coverage by Heterogeneous Sensor Network with Input Saturation, pp. 1719-1724.

Nguyen, Thien-Minh Nanyang Tech. Univ Li, Xiuxian Nanyang Tech. Univ Xie, Lihua Nanyang Tech. Univ

WeA3 Room 3 Delay Systems (1) (Regular Session)

Chair: Laraba, Mohammed Tahar Lab. of Signals and Systems L2S, CentraleSupelec

WeA3.1

A Predictor Feedback Control Method for Time-Delay Systems Using Guass-Legendre Integration, pp. 1725-1730.

The Eighth Acad. of China Aerospace Science and Tech. Co The 802 Inst. of Shanghai Acad. of Space Flight Tech

Nanjing Univ. of Science and Tech

WeA3.2

de Souza, Carlos E.	National Lab. for Scientific Computing (LNCC)	WeA5 Identification and Estimatio	Room
Coutinho, Daniel	Univ. Federal De Santa Catarina	Chair: Pursche, Thomas	Univ. of Wupperta
Barbosa, Karina A.	Univ. De Santiago De Chile	10:00-10:15	WeA5.
10:30-10:45	WeA3.3		onsistent Estimate of Innovations
	ntrol Systems Stabilization: A	<i>Model</i> , pp. 1772-1777.	
	Based Approach, pp. 1737-1742.	Ikeda, Kenji	Tokushima Uni
Laraba, Mohammed Tahar	Lab. of Signals and Systems L2S, CentraleSupelec	Tanaka, Hideyuki	Hiroshima Uni
Olaru, Sorin	CentraleSupélec	10:15-10:30	WeA5.
Niculescu, Silviu-Iulian	Umr Cnrs 8506, Cnrs-Supelec		Non-Time-Series Kernel Granger
10:45-11:00	WeA3.4	Causality in a Steelmaking	
A Finsler-Based Result for	the Stability Analysis of Takagi-	Sato, Ryosuke Fujiwara, Koichi	Kyoto Uni Kyoto Uni
	Interval Time-Varying Delays, pp.	Tani, Masahiro	Nippon Steel & Sumitomo Meta Cor
bourahala1981, bourahala	Ferhat Abas Univ	Mori, Junichi	Nippon Steel & Sumitomo Meta
Guelton, Kevin	Univ. De Reims Champagne	Worr, Jamen	Cor
	Ardenne	lse, Junji	Nippon Steel & Sumitomo Meta Corp
WeA4	Room 4	Harada, Kohhei	Nippon Steel & Sumitomo Meta
Fault Detection (1) (Regular S	Session)	Kana Manahu	Cor _l
Chair: Bao, Jie	The Univ. of New South Wales	Kano, Manabu	Kyoto Uni
10:00-10:15	WeA4.1	10:30-10:45	WeA5.
Resilient Control under Dei Triggering, pp. 1749-1754.	nial-Of-Service Via Dynamic Event	Self-Learning Kernel Regr	Industrial Processes Based on ession Model, pp. 1783-1788.
Tamba, Tua	Parahyangan Catholic Univ	Wei, Chihang	Zhejiang Uni
Nazaruddin, Yul Yunazwin	ITB Bandung	Chen, Junghui	Chung-Yuan Christian Uni
HU, Bin	Univ. of Notre Dame	Song, Zhihuan	Zhejiang Uni
10:15-10:30	WeA4.2	Chen, Chun-I	Western Digital Cor
	Fault Detection Approach for LTI	10:45-11:00	WeA5.
<i>Systems</i> , pp. 1755-1760.	μ,		cation of the High Pressure Value in ed on Stable Local Linear Model
Wang, Ruigang	Univ. of New South Wales	Network, pp. 1789-1794.	ed on Stable Local Emeal Model
Lei, Qingyang	Univ. of New South Wales	Clauss, Roland	Univ. of Wupperta
Bao, Jie	The Univ. of New South Wales	Pursche, Thomas	Univ. of Wupperta
10:30-10:45	WeA4.3	Tibken, Bernd	Wuppertal Uni
	k-Based Model for Analysing the		
	Crack Propagation, pp. 1761-1765.	WeA6	Room
Zhi, linxian Man, Zhihong	Swinburne Univ. of Tech	Networked Control Systems	
Man, Zhinong	Faculty of Engineering, Swinburne Univ. of Tech	Chair: Ahn, Hyo-Sung	Gwangju Inst. of Sci & Tec
Wang, Wenyi	Aerospace Div. Defence Science	10:00-10:15	WeA6.
	and Tech. Group	Matrix-Weighted Consense	
Cao, Zhenwei	Swinburne Univ. of Tech	<i>Topologies</i> , pp. 1795-1800.	
10:45-11:00	WeA4.4	Trinh, Minh Hoang	Gwangju Inst. of Science an
On Experimental Verification PLC Anomaly Detection, pp	on of Model Based White List for . 1766-1771.	Ye, Mengbin	Tec Australian National Uni
Mochizuki, Akinori	The Univ. of Electro-	Ahn, Hyo-Sung	Gwangju Inst. of Sci & Tec
Causada Kanii	Communications	Anderson, Brian D.O.	Australian National Uni
Sawada, Kenji	The Univ. of Electro- Communications	10:15-10:30	WeA6.
Shin, Seiichi	The Univ. of Electro- Communications		rk Design for Multirate Kuramoto Ided Synchronization, pp. 1801-1806
hosokawa, shu	Control System Security Center	Wu, Liang	UNSW@ADF
,	,	Pota, Hemanshu R.	Univ. of New South Wale

Petersen, Ian R.	Australian Defence Force Acad	11:15-11:30	WeB1.2
10:30-10:45 H-Infinity Fault Detection	WeA6.3 for Networked Control Systems	Attitude Maneuver and Gimbal Angle Controller Using SGCMG Integrated Sc	
	elta Operator, pp. 1807-1812.	1847-1852.	
Gao, Jie	Zhengzhou Univ	Ozawa, Ryotaro	Keio Univ
Zhang, Duanjin	Zhengzhou Univ	Takahashi, Masaki	Keio Univ
10:45-11:00	WeA6.4	11:30-11:45	WeB1.3
Event-Triggered Active Dis Nonlinear Stochastic Syste	sturbance Rejection Control for ems, pp. 1813-1817.	Novel Control Method for Quadcopter Linearization Approach—, pp. 1853-1858	
Li, Dandan	Tianjin Univ	Sekiguchi, Kazuma	Tokyo City Univ
Zuo, Zhiqiang	Tianjin Univ	11:45-12:00	WeB1.4
Wang, Yijing	Tianjin Univ	Collision Avoidance of Robot Arms of A 1859-1864.	Aerial Manipulators, pp.
N/ - A7	Arena D	Jeon, Boseong	Seoul National Univ
WeA7	Arena B	Kim, Hyoin	Seoul National Univ
Robust Control (1) (Regular Chair: Barbosa, Karina A.	·	Kim, H Jin	Seoul National Univ
· · · · · · · · · · · · · · · · · · ·	Univ. De Santiago De Chile		
10:00-10:15	WeA7.1	WeB2	Room 2
Stabilization of Rotary Dou Higher Order Sliding Mode	uble Inverted Pendulum Using es, pp. 1818-1823.	Cooperative Control (2) (Regular Session)
Patil, Madhura	Coll. of Engineering Pune	Chair: Li, Xiuxian	Nanyang Tech. Univ
Kurode, Shailaja	Coll. of Engineering, Shivajinagar,	11:00-11:15	WeB2.1
10:15-10:30	Pune INDIA WeA7.2	A Novel Approach to Time-Varying For 1865-1870.	rmation Control, pp.
A Riccati Equation Negativ	re Imaginary Lemma for Singular	Li, Xiuxian	Nanyang Tech. Univ
Negative Imaginary Syste		Xie, Lihua	Nanyang Tech. Univ
Dannatt, James	Australian National Univ	11:15-11:30	WeB2.2
Petersen, Ian R. 10:30-10:45	Australian Defence Force Acad WeA7.3	Multi-Hop Consensus for High-Order I Systems, pp. 1871-1876.	ntegrator Multi-Agent
	eview Controllers for Path Tracking	Li, Chang-Jiang	Harbin Inst. of Tech
and Autonomous Vehicles,		Liu, Guoping	Univ. of Glamorgan
Boyali, Ali	Toyota Tech. Inst	11:30-11:45	WeB2.3
John, Vijay	Toyota Tech. Inst	Spherical Formation Tracking of Non-I	Holonomic Vehicles in
Lyu, Zheming	Toyota Tech. Inst	Three-Dimensional Space, pp. 1877-188	
Rathour, Swarn	Toyota Tech. Univ	Ai, Xiang	Southeast Univ
Mita, Seichi	Toyota Tech. Insitute	Chen, Yangyang	Southeast Univ
10:45-11:00	WeA7.4	Zhang, Ya	Southeast Univ
Bounded Real Lemma for Descriptor Systems, pp. 18	<i>Discrete Linear Time-Varying</i> 35-1840.	11:45-12:00 External Consensus of Networked Mul	WeB2.4
Barbosa, Karina A.	Univ. De Santiago De Chile	Nonlinear Dynamics and Random Netv	
de Souza, Carlos E.	National Lab. for Scientific	1887.	Combined Country Linius
Coutinho Daniel	Computing (LNCC) Univ. Federal De Santa Catarina	Lei, Qi	Central South Univ
Coutinho, Daniel Rodríguez L., Carlos	Univ. De Santa Catarina Univ. De Santiago De Chile	Li, Jia-Hui	Central South Univ Univ. of Glamorgan
Nouriguez L., Carios	Oniv. De Santiago De Chile	Liu, Guoping Wu, Min	China Univ. of Geosciences
WeB1	Room 1		
Aerospace Engineering (2)		WeB3	Room 3
Chair: Sekiguchi, Kazuma	Tokyo City Univ	Delay Systems (2) (Regular Session)	
11:00-11:15	WeB1.1	Chair: Sun, Xi-Ming	Dalian Univ. of Tech
Attitude Controller Design	for a Small Satellite Using	11:00-11:15	WeB3.1
Spherical Reaction Wheel	,	Exponential Stability of Stochastic Imp	
Takehana, Ryo	Nihon Univ	Delayed Systems Based on Vector Lya 1888-1893.	apunov Functions, pp.

		Offiv. of Melbourne	
Room 5	WeB5	Univ. of Science and Tech. of China	Xiong, Junlin
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Identification and Estimation	WeB3.2	11:15-11:30
Australian Maritime Coll. UTAS	Chair: Nguyen, Hung Duc	al Linear Switched Systems with	
WeB5.1	11:00-11:15	• •	Delays for the Fixed Seq
n of 2-D DOAs and Sensor Rectangular Array, pp. 1934-1939.	MUSIC-Like Joint Estimation Gain/Phase Responses for F	Inst. of Automatic Control, Silesian Univ. of Tech	Babiarz, Artur
Huizhou Univ	Cui, Han	Silesian Univ. of Tech	Klamka, Jerzy
Huizhou Univ	Peng, Wenjuan	WeB3.3	11:30-11:45
Huizhou Univ. Huizhou 516001, P.R.China	Liu, Tong	Control Design for Non-Square s, pp. 1900-1905.	H2 Analytical Decoupling Systems with Time Delay
WeB5.2	11:15-11:30	Shanghai Jiao Tong Univ	Xu, Yongheng
chastic Gradient Algorithms		Shanghai Jiao Tong Univ	Shuyi, Lin
Estimation for Wiener Systems,	pp. 1940-1945.	Shanghai Jiao Tong Univ	Zhou, Zehua
Harbin Inst. of Tech. Shenzhen	Dong, Rui-Qi	Shang Hai Jiaotong Univ	Zhang, Weidong
Graduate School	Bong, Rai Qi	WeB3.4	11:45-12:00
Harbin Inst. of Tech	Zhang, Yi-Yang	Fluctuations Caused by Drill String	
Harbin Inst. of Tech	Zhang, Ying	• •	Vibration by SP-EID Meti
WeB5.3	11:30-11:45	China Univ. of Geosciences	Zhou, Yang
and System Identification Redux,	Partial Realization Theory as pp. 1946-1950.	China Univ. of Geosciences	Chen, Xin
Royal Inst. of Tech	Lindquist, Anders	Room 4	WeB4
WeB5.4	11:45-12:00		Fault Detection (2) (Regula
f a Surface Vessel by h Low-Cost Sensors, pp. 1951-1955.	Modelling and Simulation of	The Univ. of Melbourne	Chair: Mareels, Iven
Australian Maritime Coll	Kim, Jihwan	WeB4.1	11:00-11:15
National Centre for Maritime Engineering and Hydrodynamics, Austr	Wang, Yuanyuan	vian Jump Systems with Random v Using Delta Operator, pp. 1912-	
Australian Maritime Coll. UTAS	Nguyen, Hung Duc	Zhengzhou Univ	Zhou, Jianxun
Australian Mantime Coll. 01Ao	Nguyen, Hung Duc	Zhengzhou Univ	Zhang, Duanjin
		WeB4.2	11:15-11:30
Room 6 (2) (Regular Session)	WeB6 Networked Control Systems (a Bio-Inspired Vibration Sensor	Fault Detection Based on System, pp. 1918-1923.
Tianjin Univ	Chair: Zuo, Zhiqiang	Hong Kong Pol. Univ	Li, Zhengchao
WeB6.1	11:00-11:15	Hong Kong Pol. Univ	Jing, Xing Jian
red Control Systems under Denial-		Harbin Inst. of Tech	YU, Jinyong
	Of-Service Attacks, pp. 1956		11.20 11.45
S-1961.		WeB4.3	11:30-11:45
3-1961. Shanghai Jiao Tong Univ	Gan, Jiyang	Double-Faults Identification	A Novel EFSM-Based ELM
S-1961. Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ	Gan, Jiyang Wu, Jing		A Novel EFSM-Based ELM Approach and Its Applica
S-1961. Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ	Gan, Jiyang Wu, Jing Long, Chengnian	Double-Faults Identification ion to Non-Linear Processes, pp.	A Novel EFSM-Based ELN Approach and Its Applica 1924-1927.
S-1961. Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ	Gan, Jiyang Wu, Jing	Double-Faults Identification ion to Non-Linear Processes, pp. Beijing Univ. of Chemical Tech	A Novel EFSM-Based ELN Approach and Its Applica 1924-1927. XU, Yuan
S-1961. Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ WeB6.2	Gan, Jiyang Wu, Jing Long, Chengnian Li, Shaoyuan 11:15-11:30	Double-Faults Identification cion to Non-Linear Processes, pp. Beijing Univ. of Chemical Tech Beijing Univ. of Chemical Tech	<i>A Novel EFSM-Based ELN Approach and Its Applica</i> 1924-1927. XU, Yuan Zhou, Ziqian
S-1961. Shanghai Jiao Tong Univ WeB6.2	Gan, Jiyang Wu, Jing Long, Chengnian Li, Shaoyuan 11:15-11:30 Distributed Localization in S	Double-Faults Identification cion to Non-Linear Processes, pp. Beijing Univ. of Chemical Tech Beijing Univ. of Chemical Tech Beijing Univ. of Chemical Tech	A Novel EFSM-Based ELN Approach and Its Applica 1924-1927. XU, Yuan Zhou, Ziqian geng, zhiqiang
S-1961. Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ WeB6.2 Sensor Networks with rement Noises, pp. 1962-1967.	Gan, Jiyang Wu, Jing Long, Chengnian Li, Shaoyuan 11:15-11:30 Distributed Localization in S Communication and Measur	Double-Faults Identification ion to Non-Linear Processes, pp. Beijing Univ. of Chemical Tech	A Novel EFSM-Based ELN Approach and Its Applica 1924-1927. XU, Yuan Zhou, Ziqian geng, zhiqiang Wang, Yanqing
S-1961. Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ WeB6.2 Sensor Networks with rement Noises, pp. 1962-1967. Southeast Univ	Gan, Jiyang Wu, Jing Long, Chengnian Li, Shaoyuan 11:15-11:30 Distributed Localization in S Communication and Measur Wu, Fei	Double-Faults Identification ion to Non-Linear Processes, pp. Beijing Univ. of Chemical Tech	A Novel EFSM-Based ELN Approach and Its Applica 1924-1927. XU, Yuan Zhou, Ziqian geng, zhiqiang Wang, Yanqing He, Yan-Lin
S-1961. Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ WeB6.2 Sensor Networks with rement Noises, pp. 1962-1967. Southeast Univ Southeast Univ	Gan, Jiyang Wu, Jing Long, Chengnian Li, Shaoyuan 11:15-11:30 Distributed Localization in S Communication and Measur Wu, Fei Tian, Yu-Ping	Double-Faults Identification cion to Non-Linear Processes, pp. Beijing Univ. of Chemical Tech	A Novel EFSM-Based ELN Approach and Its Applica 1924-1927. XU, Yuan Zhou, Ziqian geng, zhiqiang Wang, Yanqing He, Yan-Lin ZHU, Qunxiong
S-1961. Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ WeB6.2 Sensor Networks with rement Noises, pp. 1962-1967. Southeast Univ	Gan, Jiyang Wu, Jing Long, Chengnian Li, Shaoyuan 11:15-11:30 Distributed Localization in S Communication and Measur Wu, Fei	Double-Faults Identification cion to Non-Linear Processes, pp. Beijing Univ. of Chemical Tech WeB4.4	A Novel EFSM-Based ELN Approach and Its Applica 1924-1927. XU, Yuan Zhou, Ziqian geng, zhiqiang Wang, Yanqing He, Yan-Lin ZHU, Qunxiong 11:45-12:00 A Hybrid Method of Rolle
S-1961. Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ WeB6.2 Sensor Networks with rement Noises, pp. 1962-1967. Southeast Univ Southeast Univ Southeast Univ WeB6.3	Gan, Jiyang Wu, Jing Long, Chengnian Li, Shaoyuan 11:15-11:30 Distributed Localization in S Communication and Measur Wu, Fei Tian, Yu-Ping Wang, Bo 11:30-11:45	Double-Faults Identification rion to Non-Linear Processes, pp. Beijing Univ. of Chemical Tech WeB4.4 **Bearing Fault Diagnosis Based on ral Kurtosis, pp. 1928-1933.	A Novel EFSM-Based ELN Approach and Its Applica 1924-1927. XU, Yuan Zhou, Ziqian geng, zhiqiang Wang, Yanqing He, Yan-Lin ZHU, Qunxiong 11:45-12:00 A Hybrid Method of Rolle Improved LMD and Spec
S-1961. Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ WeB6.2 Sensor Networks with rement Noises, pp. 1962-1967. Southeast Univ Southeast Univ	Gan, Jiyang Wu, Jing Long, Chengnian Li, Shaoyuan 11:15-11:30 Distributed Localization in S Communication and Measur Wu, Fei Tian, Yu-Ping Wang, Bo 11:30-11:45	Double-Faults Identification cion to Non-Linear Processes, pp. Beijing Univ. of Chemical Tech WeB4.4 **Bearing Fault Diagnosis Based on ral Kurtosis, pp. 1928-1933. Wuhan Univ. of Tech	A Novel EFSM-Based ELN Approach and Its Applica 1924-1927. XU, Yuan Zhou, Ziqian geng, zhiqiang Wang, Yanqing He, Yan-Lin ZHU, Qunxiong 11:45-12:00 A Hybrid Method of Rolle Improved LMD and Spec Wang, Jiying
S-1961. Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ Shanghai Jiao Tong Univ WeB6.2 Sensor Networks with rement Noises, pp. 1962-1967. Southeast Univ Southeast Univ Southeast Univ WeB6.3	Gan, Jiyang Wu, Jing Long, Chengnian Li, Shaoyuan 11:15-11:30 Distributed Localization in S Communication and Measur Wu, Fei Tian, Yu-Ping Wang, Bo 11:30-11:45 Event-Triggered H1 Trackin	Double-Faults Identification rion to Non-Linear Processes, pp. Beijing Univ. of Chemical Tech WeB4.4 **Bearing Fault Diagnosis Based on ral Kurtosis, pp. 1928-1933.	A Novel EFSM-Based ELN Approach and Its Applica 1924-1927. XU, Yuan Zhou, Ziqian geng, zhiqiang Wang, Yanqing He, Yan-Lin ZHU, Qunxiong 11:45-12:00 A Hybrid Method of Rolle Improved LMD and Spec

Univ. of Melbourne

Ren, Wei

11:45-12:00	WeB6.4
An Error-Correcting Code in Delay Li 1974-1979.	near Network Coding, pp.
Vu, Loc	Tokyo Inst. of Tech
Hayakawa, Tomohisa	Tokyo Inst. of Tech

WeB7	Arena B
Robust Control (2) (Regular Sess	sion)
Chair: Morales, Rafael Mauricio	Univ. of Leicester
11:00-11:15	WeB7.1
Stability of Networked Feedbac Wise Bounded Uncertainty Qua	
Zhao, Di	The Hong Kong Univ. of Science and Tech
Qiu, Li	Hong Kong Univ. of Sci. & Tech
11:15-11:30	WeB7.2
Disturbance Rejection Based o Disturbance Approach for Noni 1984-1989.	n Equivalent-Input- linear Time-Delay Systems, pp.
Gao, Fang	Anhui Normal Univ
Wu, Min	China Univ. of Geosciences
She, Jin-Hua	Tokyo Univ. of Tech
Fang, Mingxing	Anhui Normal Univ
Du, Youwu	China Univ. of Geosciences
Wang, Fang	Zhengzhou Univ. of Light Industry
11:30-11:45	WeB7.3
Decoupled Controller Tuning for Active Control, pp. 1990-1995.	or Robust Principal Component
Yang, Hao	Univ. of Leicester

11:45-12:00 WeB7.4 Robust Controller Design with Fixed-Order Controllers Using

Univ. of Leicester

Morales, Rafael Mauricio

FNFR Models, pp. 1996-2000.
Sakamoto, Yuki Kyushu Inst. of Tech
Nobuyama, Eitaku Kyushu Inst. of Tech
Kami, Yasushi Akashi National Coll. of Tech

WeC1	Room 1	
Al and Expert Systems (Regular Session)		
Chair: Qi, Hongsheng	Chinese Acad. of Sciences	
13:00-13:15	WeC1.1	
A New Multilayer LSTM Method of Compressed Sensing in Acquiring 2001-2006.		
Han, Tao	Donghua Univ	
Hao, Kuangrong	Donghua Univ	
Ding, Yongsheng	Donghua Univ	
Tang, Xuesong, Xuesong	Donghua Univ	
13:15-13:30	WeC1.2	

Joint Distribution Adaptation-Based Transfer Learning for Status Classification of Blast Furnace Gas Pipeline Network, pp. 2007-2012.

SI	JN, JIAN	Dalian Univ. of Tech
	<i>'</i>	
	, ZHENG	Dalian Univ. of Tech
Zh	ao, Jun	Dalian Univ. of Tech. Dalian, Liaoning
Wa	ang, Wei	Dalian Univ. of Tech
Wa	ang, Linqing	Dalian Univ. of Tech. Dalian, Liaoning
Gι	ıo, Ge	Dalian Maritime Univ
13	:30-13:45	WeC1.3
Consensus-Based EM Algorithm for Gaussian Mixtures in Time-Varying Networks, pp. 2013-2018.		
Lir	n, Peng	AMSS, Chinese Acad. of Sciences; Univ. of Chinese Acad
Wa	ang, Yinghui	Key Lab of Systems and Control, AMSS, Chinese Acad. of Science
Qi	, Hongsheng	Chinese Acad. of Sciences
13	:45-14:00	WeC1.4
	eural Network Quantizers for . 2019-2024.	Discrete-Valued Input Control,
	odriguez Ramirez, Juan teban	Nara Inst. of Science and Tech
Mi	nami, Yuki	Osaka Univ
Su	igimoto, Kenji	Nara Inst. of Science and Tech

WeC2	Room 2	
Cooperative Control (3) (Regular Session)		
Chair: Garratt, Matthew Adam	Univ. of New South Wales	
13:00-13:15	WeC2.1	
A Cooperative Hunting Strategy for Mobile Sensing Agents Based on Bearings-Only Measurements, pp. 2025-2030.		
Yang, Huizhen	Northwestern Ploytechnical Univ	
Li, Ruizhen	Northwestern Ploytechnical Univ	
13:15-13:30	WeC2.2	
Formation Control of Multi-UA	Vs Using Negative-Imaginary	

Systems Theory, pp. 2031-2036.

Tran, Vu Phi

Garratt, Matthew Adam

Petersen, Ian R.

Univ. of New South Wales

Univ. of New South Wales

Australian Defence Force Acad

13:30-13:45 WeC2.3

Minimal Data Rate for Quantized Consensus of Multi-Agent Systems, pp. 2037-2041.

Ma, Ji City Univ. of Hong Kong Chen, Ziqin Univ. of Science and Tech. of China Ji, Haibo Univ. of Science and Tech. of China Xi, Hongsheng Univ. of Science and Tech. of China The Chinese Univ. of Hong Kong, Yu, Xiao Shenzhen 13:45-14:00 WeC2.4

Finite-Time Output Consensus of Second-Order Multi-Agent Systems with Mismatched Disturbances Via Active Anti-Disturbance Control, pp. 2042-2047.

Li, Guipu	Southeast Only
Wang, Xiangyu	Southeast Univ
Li, Shihua	Southeast Univ
Zheng, Wei Xing	Western Sydney Univ
Xisong, Chen	Southeast Univ
WeC3	Room 3
Filtering (Regular Session)	
Chair: Zhao, Yanlong	Chinese Acad. of Sciences
13:00-13:15	WeC3.1
Command Filter and Observ Networks Control for PMSMs	
Niu, Hao	Qingdao Univ. Coll. of Automation and Electrical Enginee
Fu, Cheng	Coll. of Automation and Electrical Engineering, Qingdao Univ
Ma, YuMei	Coll. of Automation and Electrical Engineering, Qingdao Univ
Yu, Haisheng	Qingdao Univ
Zhao, Lin	Coll. of Automation and Electrical Engineering, Qingdao Univ
Zhao, Yang	Qingdao Univ
Yu, JinPeng	Qingdao Univ
13:15-13:30	WeC3.2
	cion Based on Recurrent Neural Specialized Memories, pp. 2054-
Guo, Yu	Xi'an Jiaotong Univ
Wang, Fei	Xi'an Jiaotong Univ
∟o, James	Univ. of Maryland Baltimore County
13:30-13:45	WeC3.3
An Improved Labeled Multi-l Multi-Target Tracking, pp. 20	Bernoulli Filter for Bearings-Only 60-2065.
Xie, Yifan	Hanyang Univ
Song, Taek-Lyul	Hanyang Univ
13:45-14:00	WeC3.4
Quickest Detection of Intern Anomaly Times, pp. 2066-207	nittent Signals with Estimated 0.
James, Jasmin	Queensland Univ. of Tech
Ford, Jason	Queensland Univ. of Tech
Molloy, Timothy L.	Queensland Univ. of Tech
WeC4	Room 4
Game Theory (Regular Session)
Chair: Wada, Takayuki	Osaka Univ
Co-Chair: Wang, Bingchang	Shandong Univ
13:00-13:15	WeC4.1
A Stochastic Approximation Core of Uncertain Cooperativ	for Finding an Element of the ve Games, pp. 2071-2076.
Wada, Takayuki	Osaka Univ
Fujisaki, Yasumasa	Osaka Univ
	

Southeast Univ

Li, Guipu

13:15-13:30

Utility Design for Two-Player Normal-Form Games, pp. 2077-2082. Kitagawa, Koji The Univ. of Electro-Communications The Univ. of Adelaide Guo, Mingyu Kogiso, Kiminao The Univ. of Electro-Communications Hata, Hideaki Nara Inst. of Science and Tech 13:30-13:45 WeC4.3 Nash Equilibrium Approximation under Communication and Computation Constraints in Large-Scale Non-Cooperative Games, pp. 2083-2088. KTH Royal Inst. of Tech Nekouei, Ehsan Alpcan, Tansu The Univ. of Melbourne Nair, Girish N. Univ. of Melbourne 13:45-14:00 WeC4.4 Social Optima in Robust Mean Field LQG Control, pp. 2089-2094. Wang, Bingchang Shandong Univ Huang, James Jianhui Hong Kong Pol. Univ WeC5 Room 5 Observer Design (1) (Regular Session) Chair: MESLEM, Nacim INP Grenoble (GIPSA-Lab) 13:00-13:15 Dissipative Reset Adaptive Observer for a Class of Singular Systems, pp. 2095-2100. Jin, Yongsik Kyungpook National Univ Kwon, Wookyong **POSTECH** Yun, Jong Pil KITECH(Korea Inst. of Industrial Tech Lee, S.M. Kyungpook National Univ 13:15-13:30 WeC5.2 Fractional-Order Observer for Integer-Order LTI Systems, pp. 2101-2106. Weise, Christoph TU Ilmenau Wulff, Kai Tech. Univ. Ilmenau Reger, Johann TU Ilmenau 13:30-13:45 WeC5.3 A Luenberger-Like Interval Observer for a Class of Uncertain Discrete-Time Systems, pp. 2107-2112. MESLEM. Nacim INP Grenoble (GIPSA-Lab) LOUKKAS, Nassim GIPSA-Lab, Grenoble Martinez Molina, John Jairo Gipsa-Lab, Grenoble-INP 13:45-14:00 WeC5.4 On Structural Approaches to H-Infinity Observer Design, pp. 2113-2118. Zhang, Daipeng TU Ilmenau Reger, Johann TU Ilmenau

Room 6

Tokyo Univ. of Science

WeC6

Chair: Satoh, Yasuyuki

WeC4.2

Predictive Control (1) (Regular Session)

13:00-13:15	WeC6.1	Cai, Zhihao	Beihang Univ
	del Predictive Control to Electric	Zhao, Jiang	Beihang Univ
Power Assisted Steering Sys	<i>tems</i> , pp. 2119-2124.	Wang, Yingxun	Beihang Univ
Lee, Junho	Kookmin Univ	Liu, Ningjun	Beihang Univ
Chang, H.J.	Kookmin Univ	Song, Ziwei	Beihang Univ
13:15-13:30	WeC6.2		
Nonlinear Model Predictive C Autonomous State Jumps Us pp. 2125-2130.	Control for Systems with sing a Penalty Function Method,	WeD1 Decentralized Control (Regu	Room 1
Katayama, Sotaro	Kyoto Univ	Chair: Sueoka, Yuichiro	Osaka Univ
Satoh, Yasuyuki	Tokyo Univ. of Science	14:00-14:15	WeD1.1
Doi, Masahiro	Toyota Motor Coporation	Three-Dimensional Localiza	ation Method: Mi-Nashi in Multi-
Ohtsuka, Toshiyuki	Kyoto Univ	Robot Systems, pp. 2166-21	71.
13:30-13:45	WeC6.3	Takahashi, Ryosuke	Osaka Univ
Parameter Sensitivity Reduct		Sueoka, Yuichiro	Osaka Univ
	te-Time Systems, pp. 2131-2136.	Osuka, Koichi	Osaka Univ. Japan
Schrangl, Patrick	Johannes Kepler Univ. Linz	14:15-14:30	WeD1.2
Ohtsuka, Toshiyuki	Kyoto Univ		g Attacks on Misappropriated
Del Re, Luigi	Johannes Kepler Univ. Linz	pp. 2172-2176.	Decentralized \$H_infty\$ Synthesis,
13:45-14:00	WeC6.4	Ugrinovskii, Valery	Univ. of New South Wales
	Differential Game between a	14:30-14:45	WeD1.3
Multirotor UAV and a Moving		Decentralized Tracking of a	
Hirota, Kazuki	Graduate School of Informatics, Kyoto Univ		Systems Using Filter-Driven
Satoh, Yasuyuki	Tokyo Univ. of Science	Choi, Yunho	Chung-Ang Univ
Motooka, Norizumi	Mitsubishi Electric Corp	Yoo, Sung Jin	Chung-Ang Univ
Asano, Yuta	Mitsubishi Electric Corp	Kim, Hyoung Oh	Chungang Univ
Kameoka, Shota	Mitsubishi Electric	14:45-15:00	WeD1.4
Ohtsuka, Toshiyuki	Kyoto Univ		urrent Controllers for Grid-Feeding
WeC7	Arena B	Han, Renke	Aalborg Univ
Fuzzy Neural Systems (Regula	r Session)	Tucci, Michele	Univ. Degli Studi Di Pavia
Chair: Yoneyama, Jun	Aoyama Gakuin Univ	Soloperto, Raffaele	Univ. of Stuttgart
13:00-13:15	WeC7.1	Ferrari-Trecate, Giancarlo	Ec. Pol. F\'ed\'erale De Lausanne
Simulation of Waste Heat Re Based Evaporator Model, pp.		Guerrero, Josep	Aalborg Univ
NGUYEN, BAO KHA	Univ. of Sussex	WeD2	Room 2
13:15-13:30	WeC7.2	Energy Technology (Regular	
Observer-Based Adaptive Fu		Chair: Lees, Michael	Carlton & United Breweries
•	bitrary Switchings, pp. 2148-2153.	14:00-14:15	WeD2.1
Liu, Zhiliang	Qingdao Univ		liabatic Compressed Air Energy
Chen, Bing	Qingdao Univ	Storage (A-CAES) Plant - F	Heat Medium Control Simulations -
Lin, Chong Zhang, Li	Qingdao Univ Qingdao Univ	, pp. 2188-2193.	
		Takagi, Yasuo	Daido Univ
	WeC7.3	Minami, Atsushi	Daido Univ
	and Stabilizaion of Takagi-	Sakamoto, Kanami	Kobe Steel Ltd
New Conditions for Stability			
New Conditions for Stability Sugeno Fuzzy Systems, pp. 2	154-2159.	14:15-14:30	
13:30-13:45 New Conditions for Stability Sugeno Fuzzy Systems, pp. 2 Yoneyama, Jun 13:45-14:00		Distributed Energy Dispato	WeD2.2 h of Electrical Energy Storage
New Conditions for Stability Sugeno Fuzzy Systems, pp. 2 Yoneyama, Jun 13:45-14:00	Aoyama Gakuin Univ WeC7.4		h of Electrical Energy Storage
New Conditions for Stability Sugeno Fuzzy Systems, pp. 2 Yoneyama, Jun 13:45-14:00	Aoyama Gakuin Univ WeC7.4 ontroller for a Hybrid Autogyro	Distributed Energy Dispato Systems, pp. 2194-2199.	WeD2.2 h of Electrical Energy Storage Southwest Univ Univ. of Pretoria

Compressor and Priority Panel Optimization for an Energy Efficient CNG Fuelling Station, pp. 2200-2203.

Kagiri, Charles Muiruri	Univ. of Pretoria
Zhang, Lijun	Univ. of Pretoria
Xia, Xiaohua	Univ. of Pretoria
14:45-15:00	WeD2.4

Infrastructure Requirements to Support a User-Pays Energy Management Environment in a Manufacturing Plant, pp. 2204-2208.

Lees, Michael Carlton & United Breweries
Ellen, Robert EGA Tech

WeD3	Room 3	
Human-Machine Systems (Regular Session)		
Chair: Simic, Milan	RMIT Univ	
14:00-14:15	WeD3.1	
Relation of Motivation Intensit Performance a Human Reliabi		
wu, zekun	Beihang Univ	
pan, xing	Beihang Univ	
chen, xi	Beihang Univ	
14:15-14:30	WeD3.2	
Detection of Knee Motor Imag Quantification for BCI Based N pp. 2215-2219.	very by Mu ERD/ERS Neurorehabilitation Applications,	
Tariq, Madiha	RMIT Univ	
Trivailo, Pavel	RMIT Univ	
Simic, Milan	RMIT Univ	
14:30-14:45	WeD3.3	
Regulation Mapping Design for	r Control System Viability by	
Revived Transformation, pp. 22	220-2225.	
Shudai, Hiroki	Tokyo Univ. of Science	
Nakamura, Hisakazu	Tokyo Univ. of Science	
Kimura, Shunsuke	Tokyo Inst. of Tech	

Active Training Mode for Muscle Recovery, pp. 2226-2231.

Tagami, Masaharu

Kindai Univ

Development of a Continuous-Passive-Motion Device with an

WeD3.4

Room 4

WeD4.2

14:45-15:00

WeD4

14:15-14:30

Tagawa, Yasutaka

Tokyo Univ. of Agriculture and
Tech

LMIs (Regular Session)	
Chair: Sato, Masayuki	Japan Aerospace Exploration Agency
14:00-14:15	WeD4.1
Discrete-Time Observer-Based Ga Feedback Controller Design with S of Scaling Matrices, pp. 2232-2237.	Simultaneous Optimization
Sato, Masayuki	Japan Aerospace Exploration Agency

Non-Fragile L_2-L_infinity Control for Markov Jump Systems

with General Transition Probabilities against Multiple Disturbances, pp. 2238-2243.

Ye, Dan	Northestern Univ
Xu, Peipei	Northeastern Univ
Zhao, Xingang	Shenyang Inst. of Automation,
	CAS

14:30-14:45 WeD4.3

Reduction of H-Infinity State Feedback Control Problems for the Servo Systems, pp. 2244-2249.

Waki, Hayato
Inst. of Mathematics for Industry,
Kyushu Univ
Sebe, Noboru
Kyushu Inst. of Tech

14:45-15:00 WeD4.4

Decoupling Compensation for a Dual Input Dual Output Servo System in Mobile Sat-Com Antennas, pp. 2250-2255.

Wen, Cheng South China Univ. of Tech
Li, Xiang South China Univ. of Tech
Su, Weizhou South China Univ. of Tech

WeD5 Room 5
Observer Design (2) (Regular Session)

Chair: Mareels, Iven The Univ. of Melbourne

14:00-14:15 WeD5.1

Intrinsically Stable Realization of a Resonant Current Regulator for a Single Phase Inverter, pp. 2256-2261.

McNabb, Luke RMIT Univ Wang, Liuping RMIT Univ McGrath, Brendan Royal Melbourne Inst. of Tech. Melbourne

14:15-14:30 WeD5.2

Output Feedback Nonlinear Model Predictive Control for a Class of Nonlinear Systems, pp. 2262-2267.

Hasan, Muhammad Noman National Univ. of Sciences and Tech. (NUST) Pakistan

Memon, Attaullah Y.Memon Pnec, Nust

14:30-14:45 WeD5.3

Integral Augmented Nonlinear Differentiator for Noisy Signals, pp. 2268-2273.

Su, Zikang
Wang, Honglun
Beihang Univ
Li, Na
Unmanned System Res. Inst.
Beihang Univ
Yu, Yue
Beihang Univ
Wu, Jianfa
Beihang Univ

14:45-15:00 WeD5.4

Resilient Moving Horizon Estimation for Cyber-Physical Systems under Sensor Attacks, pp. 2274-2279.

Wang, Yulei Jilin Univ
Yuan, Jingxin Jilin Univ
Yu, Shuyou Univ. of Stuttgart
hu, yunfeng Jilin Univ
Chen, Hong Jilin Univ. Campus NanLing

WeD6 Predictive Control (2) (Regular Session)	Room 6	Hatada, Kazuyoshi Hirata, Kentaro
Chair: Defay, François	ISAE-SUPAERO	14:45-15:00
14:00-14:15	WeD6.1	Positioning Control a
On the Use of Intermediate Solutions in Predictive Control Based on Matrix Split	n Parallel Model	in 2DoF-FRIT Contro 2322-2327.
Hara, Naoyuki	Osaka Prefecture Univ	Si, Hnin
Konishi, Keiji	Osaka Prefecture Univ	Kaneko, Osamu
14:15-14:30	WeD6.2	
Using Gated Recurrence Units Neural N of Melt Spinning Properties, pp. 2286-229		We1Po
Xie, Ruimin	Donghua Univ	Poster Sessions Wed
Ding, Yongsheng	Donghua Univ	15:30-17:00
Hao, Kuangrong	Donghua Univ	Network and Distribute
Chen, Lei	Donghua Univ	Interactive Session, 19
Wang, Tong	Donghua Univ	15:30-17:00
14:30-14:45	WeD6.3	Linear Systems and Si Interactive Session, 26
Pattern Trees Modeling for Prediction a. Metal Temperature in Blast Furnace Iro 2297.		15:30-17:00
Zhang, Xinmin	Kyoto Univ	Control Applications
Kano, Manabu	Kyoto Univ	Interactive Session, 31
,	n Steel & Sumitomo Metal	
Matsuzaki, Gililloku 141ppol	Corp	We1Po-01
14:45-15:00	WeD6.4	Network and Distribu
Autonomous Landing of an UAV on a M Model Predictive Control, pp. 2298-2303.		Chair: Sun, Zhiyong Co-Chair: Ahn, Hyo-Su
	JPAERO - Toulouse Univ	15:30-17:00
Defay, François	ISAE-SUPAERO	Modeling and Invest
Chauffaut, Corentin	ISAE Res. Center	(Re-)Allocation for I 2328-2333.
		Elfaham, Haitham
WeD7	Arena B	Wagner, Constantin
Mechatronics (Regular Session)		Anapolska, Mariia
Chair: Hirata, Kentaro	Okayama Univ	Epple, Ulrich
14:00-14:15	WeD7.1	15:30-17:00
Motion Tracking Control of Surgical Dev Mode Enhanced Adaptive Disturbance (2304-2309.		Awareness Design a Based on Susceptib Model, pp. 2334-2339
Lau, Jun Yik	NATIONAL Univ. OF SINGAPORE	Li, Zhixun
Liana Wanyu Na	ational Univ. of Singapore	HONG, JIE

Chaunaut, Colentin	ISAL Nes. Center	
WeD7	Arena B	
Mechatronics (Regular Session)		
Chair: Hirata, Kentaro	Okayama Univ	
14:00-14:15	WeD7.1	
Motion Tracking Control of Sur Mode Enhanced Adaptive Distu 2304-2309.	rgical Device Based on Sliding urbance Observer Strategy, pp.	
Lau, Jun Yik	NATIONAL Univ. OF SINGAPORE	
Liang, Wenyu	National Univ. of Singapore	
Tan, Kok Kiong	National Univ. of Singapore	
14:15-14:30	WeD7.2	
Velocity Tracking of a High-Ris Control, pp. 2310-2315.	se Building Elevator Using PDF	
Mangera, Muhammed	Univ. of the Witwatersrand	
Parshotam, Dushil	Univ. of the Witwatersrand	
Hill, Ike-Lee	Univ. of the Witwatersrand	
Panday, Aarti	Univ. of the Witwatersrand	
Pedro, Jimoh Olarewaju	Univ. of the Witwatersrand	
14:30-14:45	WeD7.3	
Visual Feedback Control of a P	Pendubot with Varying Moment	

of Inertia, pp. 2316-2321.

Hatada, Kazuyoshi	Fukuoka Univ
Hirata, Kentaro	Okayama Univ
14:45 15:00	WoD7.4

and Model Estimation of Vibrating System rol Architecture with Kautz Expansion, pp.

Kanazawa Univ The Univ. of Electro-Communications

We1Po	Room T1
Poster Sessions Wednesday (Interactive	e Session)
15:30-17:00	Sub-session We1Po-01
Network and Distributed Systems Interactive Session, 19 papers	
15:30-17:00	Sub-session We1Po-02
Linear Systems and Signal Processing Interactive Session, 26 papers	
15:30-17:00	Sub-session We1Po-03
Control Applications Interactive Session, 31 papers	

Ve1Po-01 Room		
Network and Distributed Systems (Interactive Session)		
Chair: Sun, Zhiyong	The Australian National Univ	
Co-Chair: Ahn, Hyo-Sung	Gwangju Inst. of Sci & Tech	
15:30-17:00	We1Po-01.1	
Modeling and Investigating Load Distribution and Resource (Re-)Allocation for Next Generation Automation Solutions, pp.		

RWTH Aachen Univ

RWTH Aachen Univ RWTH Aachen Univ RWTH Aachen Univ We1Po-01.2

and Analysis Upon Two Infectious States ole-Exposed-Infected-Vigilant (SEIV)

Li, Zhixun	The Australian National Univ
HONG, JIE	Nanyang Tech. Univ
YU, Changbin	Australian National Univ
Sun, Zhiyong	The Australian National Univ
15:30-17:00	We1Po-01.3

Stochastic Stability of Opinion Dynamics with Stubbornness, pp. 2340-2345.

Liang, Haili Shanghai Univ Zhou, Zhao East China Univ. of Science and Tech

15:30-17:00 We1Po-01.4

Synchronization of Delayed Lur'e Complex Dynamical Networks with Delayed Coupling, pp. 2346-2351.

Gao, Yanbo Nantong Univ Sun, Binghua Nantong Univ

Zhang, Zhenjuan	Nantong Univ	Adibzadeh, Amir	Amirkabir Univ. of Tech
15:30-17:00	We1Po-01.5	Zamani, Mohsen	Univ. of Newcastle
Autonomous Remote Mor	nitoring System by Flexible Data	Amir Abolfazl, Suratgar	Amirkabir Univ. of Tech
Flow Management, pp. 235		Menhaj, Mohammad Bagher	Amirkabir Univ. of Tech
Kasuga, Satoshi	Ritsumeikan Univ	15:30-17:00	We1Po-01.13
Takayama, Shigeru	Ritsumeikan Univ	Distributed Model Predictive I Vehicle Collision Avoidance, p	
15:30-17:00	We1Po-01.6	Van Parys, Ruben	KU Leuven
Adaptive Fault-Tolerant T Agent Systems, pp. 2358-2	racking Control for Singular Multi- 1363.	Pipeleers, Goele	KU Leuven, LRD
Shi, Weimin	Wenzhou Univ	15:30-17:00	We1Po-01.14
Chen, Wenhai	Wenzhou Univ		Protocol Design for Networked
Gao, Lixin	Wenzhou Univ		ems Via Adaptive Second Order
Hu, Jiangping	Univ. of Elec. Sci. and Tech. of China	Sliding Mode, pp. 2405-2410. Khan, Qudrat	COMSATS Inst. of Information
15:30-17:00	We1Po-01.7	Almaniawati Dini	Tech. Islamabad
Distributed Model Predicti Network, pp. 2364-2369.	ive Control with Switching Topology	Akmeliawati, Rini 15:30-17:00	International Islamic Malaysia We1Po-01.15
Qiu, Quanwei	Griffith Univ		Complex Multivariable Models
Yang, Fuwen	Griffith Univ		s Based on RNGA, pp. 2411-2416.
Zhu, Yong	Griffith Univ	Luan, Xiaoli	Jiangnan Univ
15:30-17:00	We1Po-01.8	Liu, Fei	Jiangnan Univ
	tering for Networked Control	Chen, Qiang	Jiangnan Univ
Systems with Communication	ation Constraints, pp. 2370-2375.	15:30-17:00	We1Po-01.16
Long, Yue	Liaoning Univ		m Via Saddle Point Dynamics
Park, Ju H.	Yeungnam Univ	for Optimal Resource Allocation Systems, pp. 2417-2422.	on Problem Over Networked
Jung, Hoyoul	YNU	Hoang, Phuong Huu	GIST
Yao, Xiuming	Harbin Inst. of Tech	Nguyen, Chuong Van	GIST
Hao, Liying	Dalian Maritime Univ	Kim, Hong-Kyong	GIST
15:30-17:00	We1Po-01.9	Ahn, Hyo-Sung	Gwangju Inst. of Sci & Tech
Systems with Aperiodic S	k Control of Networked Control ampling and Time-Varying Delays,	15:30-17:00	We1Po-01.17
pp. 2376-2381.			Shape Morphing of Thin Plates
Meng, Su	Beijing Inst. of Tech	Using Dynamic Inversion Tec	
Sun, Jian	Beijing Inst. of Tech	Dhurvas, Vishnu Pradeesh Ali, Shaikh Farugue	Indian Inst. of Tech. Madras Indian Inst. of Tech. Madras
Chen, Jie	Beijing Inst. of Tech	<u> </u>	
15:30-17:00	We1Po-01.10	15:30-17:00	We1Po-01.18
	esign for Multiple Euler-Lagrange ching Topologies, pp. 2382-2386.	Active Vortex-Induced Vibrat Transported in Water, pp. 242	
Huang, Jie	Univ. of Groningen	Shah, Muhammad Umer Hameed	
Zhou, Ning	Fujian Agriculture and Forestry	Hong, Keum-Shik	Pusan National Univ
Chan Divina	Univ	15:30-17:00	We1Po-01.19
Chen, Riqing	Fujian Agriculture and Forestry Univ	Backstepping-Based Observe Stabilization of a Boundary C	
Zhang, Weida	Univ. of Oxford	Diffusion System, pp. 2435-244	
15:30-17:00	We1Po-01.11	Chen, Juan	Jiangnan Univ
Formation-Containment (Systems with Time Delay	Control of Second-Order Multi-Agent s, pp. 2387-2392.	Cui, Baotong Chen, YangQuan	Jiangnan Univ Univ. of California, Merced
xia, mao dong	Jiangnan Univ	Mao, Li	Jiangnan Univ
Liu, Cheng-Lin	Jiangnan Univ		-
Liu, Fei	Jiangnan Univ	W-4D- 00	D. 74
15:30-17:00	We1Po-01.12	We1Po-02	Room T1
Distributed Convex Optim	nization in Networks of Agents with	Chair: likuwa Jahira	,
	ics, pp. 2393-2398.	Chair: Jikuya, Ichiro	Kanazawa Univ

15:30-17:00	We1Po-02.1	Qi, Yiwen	Shenyang Aerospace Univ
Time-Delay Compensator	<i>r Design</i> , pp. 2441-2446.	Cao, Zheng	Shenyang Aerospace Univ
Erol, Huseyin Ersin	Anadolu Univ	Liu, Jun	NHI Group Co., Ltd
Iftar, Altug	Anadolu Univ	15:30-17:00	We1Po-02.11
15:30-17:00	We1Po-02.2	On Software Update Air 2496-2501.	nalysis Via Kalman Decomposition, pp.
	ol of Markovian Jump Linear essible Hidden Information Via edback. pp. 2447-2452.	Kishida, Takamitsu	The Univ. of Electro Communications
Song, Jun	East China Univ. of Science and	Sawada, Kenji	The Univ. of Electro Communications
Niu, Yugang	East China Univ. of Science &	Shin, Seiichi	The Univ. of Electro Communication:
Zhao, Haijuan	East China Univ. of Science and	15:30-17:00	We1Po-02.12
Cao, Zhiru	Tech East China Univ. of Science and Tech	Model Hypothesis Test	
45.20 47.00		Liu, Bao	Xi'an Univ. of Science and Tecl Xi'an Univ. of Science and Tecl
15:30-17:00	We1Po-02.3	Huang, Mengtao Wang, Jingting	Xi an Oniv. of Science and Tech Xi'an Fanyi Univ
Functions, pp. 2453-2458.	Parametric Regions for Lyapunov		·
Tong, Jiancheng Univ. of Kaiserslautern		15:30-17:00	We1Po-02.13 nerator with Variable Capacitance
Bajcinca, Naim	Univ. of Kaiserslautern		et Detecting Application, pp. 2508-2510.
15:30-17:00	We1Po-02.4	Xia, Xinfan	National Defense Key Lab. o
Stabilizing Controllers fro Single-Input Single-Outp	om Non-Coprime Factorization for out Plants, pp. 2459-2463.	Guan, Hongfei	Science and Tech. on Ele Key Lab. of Space Utilization
MORI, Kazuyoshi	The Univ. of Aizu	Zhang, Yan	Tech. and Engineerino National Defense Key Lab. o
15:30-17:00	We1Po-02.5	Zilaliy, Tali	Science and Tech. on Ele
Design of Prediction Gove Saturation, pp. 2464-2468.	ernors for Linear Systems with Input	Peng, Jingjing	National Defense Key Lab. o Science and Tech. on Ele
Minami, Yuki	Osaka Univ	Fang, guangyou	Key Lab. of Electromagnetic Radiation and Sensing Tech
15:30-17:00 Transition Rule of Differe	We1Po-02.6 Intially Controllable Subspace for	Zongfei, Li	Key Lab. of Space Utilization Tech. and Engineering
Linear Periodic Systems,	pp. 2469-2472.	Wu, Xiongjun	The Eighth Acad. of China
Jikuya, Ichiro	Kanazawa Univ		Aerospace Science and Tech. Co
15:30-17:00	We1Po-02.7	15:30-17:00	We1Po-02.14
To Fish or Cut Bait?, pp. 2	2473-2477.		solution Method of Rolling
DIAO, JIAHAO	Univ. of Queensland		on Differential Reduction, pp. 2511-2515
Nazarathy, Yoni	The Univ. of Queensland	Jiang, Kaichuang	National Defense Key Lab. o Science and Tech. on Ele
Taimre, Thomas	School of Mathematics and Physics, the Univ. of Queensland,	Wu, Yingchun	National Defense Key Lab. o
Filar, Jerzy	Univ. of Queensland	Wu, Xiongjun	Science and Tech. on Ele The Eighth Acad. of China
15:30-17:00	We1Po-02.8	vvu, Alongjun	Aerospace Science and Tech. Co
	ss Model for Inventory Control under Inaccurate Record, pp. 2478-2483.	Cai, Ye	National Defense Key Lab. o Science and Tech. on Ele
Zhang, Yajun	Southeast Univ	Du, Longhai	The 54th Res. Inst. of China Electronics Tech. Grou
Wang, Zheng	Southeast Univ	Zhou, Jialing	Nanjing Univ. of Science and Tech
15:30-17:00	We1Po-02.9	15:30-17:00	We1Po-02.15
Stabilization of Switched Switching Via Switched C	Linear Systems under Arbitrary Observers, pp. 2484-2489.	Estimation Error Stabil	lity of the SDDRE Based Filter, pp. 2516
Otsuka, Naohisa	Tokyo Denki Univ	2521.	
Kakehi, Daiki	Tokyo Denki Univ	Rusnak, Ilan	RAFAEI
15:30-17:00	We1Po-02.10	Peled-Eitan, Liat	RAFAEI
Observer-Based Event-Tu	riggered H-Infinity Control for	15:30-17:00	We1Po-02.16

Rusnak, Ilan	RAFAEL	Flow, pp. 2569-2574.	Diferenciales Unit
Peled-Eitan, Liat	RAFAEL	Higuchi, Akira	Ritsumeikan Univ
15:30-17:00	We1Po-02.17	Takayama, Shigeru	Ritsumeikan Univ
Convergence-Enhanced Dense RGB-D Odometry with a Rotational Motion Prior from a Gyroscope, pp. 2528-2533.		15:30-17:00	We1Po-02.25
	, , , , , , , , , , , , , , , , , , , ,	Active User Interface of Te System, pp. 2575-2580.	lemetric Body Area Network
Kim, Changhyeon	Seoul National Univ	Amano, Junki	Ritsumeikan Univ
Lee, Sangil	Seoul National Univ	Takayama, Shigeru	Ritsumeikan Univ
Kim, H Jin	Seoul National Univ		
15:30-17:00 On the Sensor Fusion in the	We1Po-02.18 e Walking Robots Design, pp. 2534-	15:30-17:00 Synchronization of Master-	We1Po-02.26 Slave Neural Networks with
2539.			Actuator Saturation, pp. 2581-2585.
Anderle, Milan	Inst. of Information Theory and Automation of the CAS	Li, Liuwen Zou, Wenlin	Southeast Univ Nanjing Xiaozhuang Univ
Celikovsky, Sergej	Acad. of Sciences of the Czech Republic	Fei, Shumin	Southeast Univ
15:30-17:00	We1Po-02.19		
Vision-Inertia Based Naviga pp. 2540-2545.	ation Algorithms for Quadrotors,	We1Po-03 Control Applications (Interac	Room T1 :tive Session)
Hao, Ning	Harbin Inst. of Tech	Chair: Hong, Keum-Shik	Pusan National Univ
He, Fenghua	Harbin Inst. of Tech	Co-Chair: Tan, Ying	The Univ. of Melbourne
Yao, Yu	Harbin Inst. of Tech	15:30-17:00	We1Po-03.1
Qi, Hongsheng	Chinese Acad. of Sciences		I for Unmanned Helicopter Based
Wang, Ningyuan	Harbin Inst. of Tech	on Sliding Mode Observer,	
Hou, Yi	Harbin Inst. of Tech	Yang, Haipeng	Beihang Univ
15:30-17:00	We1Po-02.20	Chen, Nanyu	Beihang Univ
	/INS/VO Deep Integration for UGV	Zhou, Yaoming	Beihang Univ
Navigation in Urban Canyo		Meng, Zhijun	Beihang Univ
Wang, Meiling	Beijing Inst. of Tech	15:30-17:00	We1Po-03.2
Li, Yafeng	Beijing Inst. of Tech	Study on the Controllability	of a Drogue for Hose-Drogue
Feng, Guoqiang	Beijing Inst. of Tech	Aerial Refueling System, pp	
Yang, Yi	Beijing Inst. of Tech	Yuan, Dongli	Northwestern Pol. Univ
Liu, Tong	Beijing Inst. of Tech	15:30-17:00	We1Po-03.3
XIAO, xuan	Beijing Inst. of Tech		ol of Four Links Mechanism Using
15:30-17:00	We1Po-02.21	Particle Swarm Optimizatio Tuning, pp. 2596-2599.	on Algorithm with Parameters
Stabilization of Pan-Tilt Sys LMI-LQR Controller, pp. 255	stems Using Acceleration Based 2-2557	li, sulan	Xidian Univ
Unel, Mustafa	Sabanci Univ	15:30-17:00	We1Po-03.4
Han, Sanem Evren	Sabancı Univ	Data Driven Disturbance O Diesel Engine Airpath, pp. 2	bserver Design and Control for
15:30-17:00	We1Po-02.22	Unel, Mustafa	Sabanci Univ
Fast Algorithm of High-Dim	nensional Quantum State rement Rates, pp. 2558-2562.	Aran, Volkan	Ford Otosan, Sabanci Univ
Zhang, Jiaojiao	Univ. of Science and Tech. of	15:30-17:00	We1Po-03.5
· ,	China	GMVC-Based Optimal Plant	t-Wide PID Tuning for a Multiple
Li, Kezhi	Imperial Coll. London	Effect Evaporator, pp. 2606-	2611.
Cong, Shuang	Univ. of Sci. & Tech. of China	Obika, Masanobu	ADAPTEX Co., Ltd
15:30-17:00	We1Po-02.23	Yamamoto, Toru	Hiroshima Univ
A New Approach to Clock J. System, pp. 2563-2568.	itter Simulation in Digital Control	15:30-17:00 Quantitative Robust Control	We1Po-03.6
Tran, Long Quang	RMIT Univ	Temperature System, pp. 20	
Radcliffe, PJ	RMIT Univ	Zhang, Kai	United Tech. Res. Center (China)
Wang, Liuping	RMIT Univ	Li, Keyu	United Tech. Res. Center
15:30-17:00	We1Po-02.24	15:30-17:00	We1Po-03.7

Downhole-Friction-Estimation	on-Based Rotary Speed Control	Hajizadeh, Amin	Aalborg Univ
for Drillstring System with 3 2623.	Stick-Slip Vibrations, pp. 2618-	15:30-17:00	We1Po-03.14
Lu, Chengda	China Univ. of Geosciences	Fundamentals for the Next	
Wu, Min	China Univ. of Geosciences		ustrial Revolution, pp. 2657-2662.
Chen, Xin	China Univ. of Geosciences	Wagner, Constantin	RWTH Aachen Univ
Cao, Weihua	China Univ. of Geosciences,	von Trotha, Christian	RWTH Aacher
	Wuhan, China	Palm, Florian	RWTH Aacher
Gan, Chao	China Univ. of Geosciences	Epple, Ulrich	RWTH Aachen Univ
She, Jin-Hua	Tokyo Univ. of Tech	15:30-17:00	We1Po-03.15
15:30-17:00	We1Po-03.8	On the Tuning of Nested-St Control of a Marine Craft, pp	ructure Dynamic-Positioning
Cruise Control of a Heavy E Benchmark Problem, pp. 262	Outy Truck on Open Road the	Kazantzidou, Christina	J. 2003-2006. Queensland Univ. of Tech
Adnan, Syed Atif	Capital Univ. of Science and Tech	Perez, Tristan	Queensland Univ. of Tech
Bhatti, Aamer Igbal Bhatti	Capital Univ. of Sciences & Tech.	Donaire, Alejandro	Queensland Univ. of Tech
briatti, Admer iquai briatti	Islamabad	15:30-17:00	We1Po-03.16
15:30-17:00	We1Po-03.9	Sliding Mode Control Design	
	timation for Caster Odometer on		urface of an Offshore Container
Ogawa, Naoto	Tokyo City Univ	Ngo, Quang Hieu	Can Tho Univ
Nonaka, Kenichiro	Tokyo City Univ	Nguyen, Ngo-Phong	Cantho Univ. of Tech
Sekiguchi, Kazuma	Tokyo City Univ	15:30-17:00	We1Po-03.17
15:30-17:00	We1Po-03.10		erwater Cleaning Robot Based on
Reheated Steam Temperati	ure Control in Thermal Power	HUD, pp. 2675-2679.	
	Active Disturbance Rejection	Huang, Zhengming	Zhejiang Univ
Control, pp. 2636-2640.		Chen, Yanhu	Zhejiang Univ
Li, Haoran	Jiangsu Univ	Yang, Canjun	Zhejiang Univ
Pan, Tianhong	Jiangsu Univ	Fan, Jinchang	Zhejiang Univ
Li, Zhengming	Jiangsu Univ	Jiang, Ping	Zhejiang Univ
Ding, Shihong	Jiangsu Univ	15:30-17:00	We1Po-03.18
Guo, Shiwei	Jiangsu Univ	Sliding Mode Control of a D	ual-Trolley Mobile Harbor Crane
Ahsan, Mian Khuram	Jiangsu Univ		duced Ship Motions, pp. 2680-2685.
15:30-17:00	We1Po-03.11	Kim, Gyoung-Hahn	Pusan National Univ
Control Method for Reducin	g Energy Consumption of Active	Piao, Mingxu	Pusan National Univ. Busar
Seismic Isolation Device wi	th Power Generation Function, pp.	Hong, Keum-Shik	Pusan National Univ
2641-2645. Nakamura, Keigo	Kyoto Inst. of Tech	15:30-17:00	We1Po-03.19
Miura, Nanako	Kyoto Inst. of Tech		ontroller for Three-Phase Grid-
Sone, Akira	Kyoto Insitute of Tech	Connected Photovoltaic Sys Uncertainties, pp. 2686-2691.	
15:30-17:00	<u> </u>	Roy, Tushar Kanti	Deakin Univ
	We1Po-03.12	Mahmud, Md. Apel	Deakin Univ
	Duty Diesel Engine Calibration and red Nitric Oxide (NOx) Emissions,	Oo, Amanullah M. T.	Deakin Univ
pp. 2646-2651.	ced Withe Oxide (NOX) Emissions,	Hague, Enamul	Deakin Univ
Haras, Muhammad	Coll. of Electrical and Mechanical	15:30-17:00	We1Po-03.20
Dhatti Aamar Ishal	Engineering (CEME), NUST		upplementary Reduced-Order
Bhatti, Aamer Iqbal	M a Jinnah Univ		lity Degree for Damping Inter-
Liaquat, Muwahida	National Univ. of Sciences and Tech		tions in Uncertain Power System,
15:30-17:00	We1Po-03.13	Sun, Miaoping	Central South Univ
	tion Strategy for Minimum Wake	Liu, Jingjing	Central South Univ
<i>Deficit</i> , pp. 2652-2656.		Nian, Xiaohong	Central South Univ
Ma, Kuichao	Aalborg Univ	Deng, Zhenhua	Central South Univ
Zhu, Jiangsheng	Aalborg Univ	15:30-17:00	We1Po-03.2
Soltani, Mohsen	Aalborg Univ	10.00-17.00	WEIFU-03.21

a Hybrid Model-Based File	tering and Data-Driven Approach,		Tech. Trondheim
pp. 2698-2703.		15:30-17:00	We1Po-03.28
Zheng, xiujuan	Wuhan Univ. of Science and Tech	Nonlinear Tracking Control of	
Wu, Huaiyu	Wuhan Univ. of Science and Tech	<i>Process</i> , pp. 2738-2743.	a c., cycc coparation
Chen, Yang	Wuhan Univ. of Science and Tech	Tamba, Tua	Parahyangan Catholic Univ
15:30-17:00	We1Po-03.22	Nazaruddin, Yul Yunazwin	ITB Bandung
	nce Theory Based Method for Power Systems, pp. 2704-2709.	15:30-17:00	We1Po-03.29
Wu, Xiaomin	China Univ. of Geosciences(Wuhan)	Dynamic Model of a Three-D Beam Attached a Moving Hu	Dimensional Flexible Cantilever b, pp. 2744-2749.
Wang, Dianhong	China Univ. of Geosciences	Nguyen, Quoc Chi	Ho Chi Minh City Univ. of Tech
Cao. Weihua	China Univ. of Geosciences.	Pham, Phuong Tung	Ho Chi Minh City Univ. of Tech
odo, Womaa	Wuhan, China	15:30-17:00	We1Po-03.30
Ding, Min	China Univ. of Geosciences(Wuhan)	Path Planning and Control of Approach, pp. 2750-2755.	f a Quadrotor UAV: A Symbolic
15:30-17:00	We1Po-03.23	Zhang, Tianze	Harbin Inst. of Tech
An Enhanced Extreme Le	arning Machine with a Double	Huo, Xin	Harbin Inst. of Tech
	Application to Modeling Complex	15:30-17:00	We1Po-03.31
Chemical Processes, pp. 2 He, Yan-Lin	Beijing Univ. of Chemical Tech	Robust Design of DNA Feedb	pack Regulator for Molecular
Wang, Pingjiang	Beijing Univ. of Chemical Tech	<i>Robot</i> , pp. 2756-2759.	
geng, zhiqiang	Beijing Univ. of Chemical Tech	Misawa, Michiko	Kyushu Inst. of Tech
Han, Yongming	Beijing Univ. of Chemical Tech	Nakakuki, Takashi	Kyushu Inst. of Tech
Sheng, Hao	Beihang Univ		
ZHU, Qunxiong	Beijing Univ. of Chemical Tech	WeE1	Room 1
		Distributed Parameter System	s (Regular Session)
	We1Po-03.24 ntification and Model Reduction to Thermal Power Plant, pp. 2714-2719.	Chair: Strecker, Timm	Norwegian Univ. of Science and Tech
Do Cao, Trung	Hanoi Univ. of Science and Tech	17:00-17:15	WeE1.1
15:30-17:00	We1Po-03.25	LQ Preview State Feedback	with Output Regulation
Control-Oriented Identific a District Heating Plant, p	cation Using Maximum Likelihood for	<i>Constraint</i> , pp. 2760-2765. Hashikura, Kotaro	Tokyo Metropolitan Univ
Godoy, Boris I.	The Univ. of New South Wales	Kojima, Akira	Tokyo Metropolitan Univ
Vansovits, Vitali	Department of Computer Systems,	17:15-17:30	WeE1.2
varioovito, vitali	Centre for Intelligent Systems,	Adaptive Set-Point Regulation	
Tepljakov, Aleksei	Tallinn Univ. of Tech		ne Boundary Condition Using
Petlenkov, Eduard	Tallinn Univ. of Tech	Collocated Sensing and Cont	
Vassiljeva, Kristina	Tallinn Univ. of Tech	Holta, Haavard	Norwegian Univ. of Science and Tech
15:30-17:00	We1Po-03.26	Anfinsen, Henrik	NTNU
	urbance Rejection Control of a osorption Chiller, pp. 2726-2731.	Aamo, Ole Morten	NTNU
He, Ting	Tsinghua Univ	17:30-17:45	WeE1.3
Li, Donghai	Tsinghua Univ	Control System Design for C 2772-2777.	Concrete Irrigation Channels, pp.
Wu, Zhenlong	Tsinghua Univ		Namuagian Univ. of Caianaa and
Xue, Yali	Tsinghua Univ	Strecker, Timm	Norwegian Univ. of Science and Tech
Yang, Yuxin	Talent Exchange Service Centre of Haidian District	Cantoni, Michael	Univ. of Melbourne
15:30-17:00	We1Po-03.27	Aamo, Ole Morten	NTNU
		17:15-18:00	WeE1.4
	ol of the Czochralski Process Via der Sliding Mode and Iterative 2-2737.		ear 2 X 2 Hyperbolic PDEs with s Using Swapping, pp. 2778-2783.
Bukhari, Halima Zahra	Norwegian Univ. of Science and	Anfinsen, Henrik	NTNU
	Tech. NTNU	Aamo, Ole Morten	NTNU
Aftab, Muhammad Faisal	NTNU		
I I a contact A A a set a se	Name and an I lade of Onlands and		

Norwegian Univ. of Science and

Hovd, Morten

WeE2 Environmental Technology	Room 2 Applications (Regular Session)	Lyapunov-Based Robust Col Inductor Dual-Output Buck	Converters Using Sum of
Chair: Hara, Naoyuki	Osaka Prefecture Univ	Squares Programming, pp. 2	
17:00-17:15	WeE2.1	Vatani, Mohsen	Norwegian Univ. of Science and Tech
Comparison of Loads for V Strategies, pp. 2784-2789.	Vind Turbine down Regulation	Hovd, Morten	Norwegian Univ. of Science and Tech. Trondheim
Zhu, Jiangsheng	Aalborg Univ	17:15-18:00	WeE3.4
Ma, Kuichao	Aalborg Univ	Decentralized Control Appro	ach to Power Curtailment
Soltani, Mohsen	Aalborg Univ	Instruction Problem for PV (Generation Plants with Storage,
Hajizadeh, Amin	Aalborg Univ	pp. 2825-2830.	
Chen, Zhe	Aalborg Univ	Akutsu, Hikaru	Nagaoka Univ. of Tech
17:15-17:30	WeE2.2	HIRATA, Kenji	Nagaoka Univ. of Tech
Model-Based Design of Ind	dividual Blade Pitch and Generator	Ohori, Akihiro	DAIHEN Corp
Torque Controllers for Floa	ating Offshore Wind Turbines, pp.	Hattori, Nobuyuki	DAIHEN Corp
2790-2795.		Ohta, Yoshito	Kyoto Univ
Suemoto, Hiroki	Osaka Prefecture Univ		
Hara, Naoyuki	Osaka Prefecture Univ	WeE4	Room 4
Konishi, Keiji	Osaka Prefecture Univ	Process and Chemical System	
17:30-17:45	WeE2.3	Chair: Klemets. Jonatan Ralf Ax	
	ing to Wastewater Influent in		Tech
<i>BSM1</i> , pp. 2796-2801.		17:00-17:15	WeE4.1
Sadeghassadi, Mahsa	Univ. of Calgary	Neural Network Based Linea	arization and Control of Sputter
Westwick, David	Calgary	Processes, pp. 2831-2836.	
Macnab, Chris	Univ. of Calgary	Wölfel, Christian	Ruhr-Univ. Bochum
17:15-18:00	WeE2.4	Awakowicz, Peter	Ruhr-Univ. Bochum
	oint Optimization for the BSM1	Lunze, Jan Ruhr-Univ. Boo	
Model of Wastewater Trea Sadeghassadi, Mahsa	tment, pp. 2802-2807. Univ. of Calgary	17:15-17:30	WeE4.2
Macnab, Chris	Univ. of Calgary	A Stick-Slip Vibration Suppr System Based on Neutral Ty	ression Method for the Drillstring uppe Model, pp. 2837-2842.
Westwick, David	Calgary	Cheng, Jun	China Univ. of Geosciences
		Wu, Min	China Univ. of Geosciences
WeE3	Room 3	Lu, Chengda	China Univ. of Geosciences
Power Systems and Power I		Chen, Luefeng	China Univ. of Geosciences
Chair: Hovd, Morten	Norwegian Univ. of Science and	Chen, Xin	China Univ. of Geosciences
	Tech. Trondheim	Cao, Weihua	China Univ. of Geosciences, Wuhan, China
17:00-17:15	WeE3.1	Lai, Xuzhi	China Univ. of Geosciences
Distributed Economic Disp. 2812.	atch for Power Systems, pp. 2808-	17:30-17:45	WeE4.3
Fitri, Ismi Rosyiana	Univ		Based on the Bayesian Dynamic
Kim, Jung-Su	Seoul National Univ. of Science and Tech	Linear Model for Model Pred Prefractionator, pp. 2843-284	lictive Control of a Nitrobenzene 8.
Song, Hwachang	SeoulTech	Huang, Bingqiang	Zhejiang Univ. of Science and Tech
17:15-17:30	WeE3.2	17:45 40:00	
Constrained Control of Wir in Full Load Operation, pp.	nd Turbines for Power Regulation 2813-2818.	17:15-18:00 An Iterative LMI Approach t	
Habibi, Hamed	Faculty of Science and Engineering, School of Civil and	2854.	Self-Optimizing Control, pp. 2849-
	Mechanic	Klemets, Jonatan Ralf Axel	Norwegian Univ. of Science and Tech
Rahimi Nohooji, Hamed	Curtin Univ. Perth, Australia	Hoyd Morten	
howard, lan	Faculty of Science and Engineering, School of Civil and Mechanic	Hovd, Morten	Norwegian Univ. of Science and Tech. Trondheim
17:30-17:45	WeE3.3		

WeE5 Sensor and Sensor Fusion (Room 5
Chair: Sekiguchi, Kazuma	Tokyo City Univ
17:00-17:15	WeE5.1
Vehicle Guidance with Con Blackwellized Particle Filter	trol Action Computed by a Rao- r, pp. 2855-2860.
Sans-Muntadas, Albert	NTNU
Brekke, Edmund	NTNU
Pettersen, Kristin Y.	Norwegian Univ. of Science and Tech
17:15-17:30	WeE5.2
Accessible Ground Reaction Force Sensors without Force	n Force Estimation Using Insole ce Plates, pp. 2861-2865.
Eguchi, Ryo	Keio Univ
yorozu, ayanori	Keio Univ
Takahashi, Masaki	Keio Univ
17:30-17:45	WeE5.3
Avoidance of Singular Loca Predictive Control for Mobi	alization Environment Using Model le Robots, pp. 2866-2871.
Koizumi, Masaki	Tokyo City Univ
Nonaka, Kenichiro	Tokyo City Univ
Sekiguchi, Kazuma	Tokyo City Univ
17:15-18:00	WeE5.4
Walking Direction Detection in Correlated RF Links, pp. 1	n Using Received Signal Strengths 2872-2877.
Liu, Tong	Huizhou Univ. Huizhou 516001, P.R.China
Chen, Zhi-ming	Department of Electronics Engineering, Huizhou Univ
Liang, Zhuo-qian	Coll. of Information Science and Tech. Jinan Univ

WeE6	Room 6		
Switched Systems (Regular Session)			
Chair: Yang, Rongni	Western Sydney Univ		
17:00-17:15	WeE6.1		
Two-Dimensional H-Infinity Filtering for Fornasini-Marchesini Model under Arbitrary Switching, pp. 2878-2883.			
Yang, Rongni	Western Sydney Univ		
Zheng, Wei Xing	Western Sydney Univ		
17:15-17:30	WeE6.2		
Sliding Mode Fault-Tolerant Control t	for Switched Systems		

with Disturbance and Faults, pp. 2884-2888.

li, meng

Univ. of Electronic Science and

Tech. of China

Huang, Jian

Guan, Zhi-Hong

HU, Bin

chen, yong Univ. of Electronic Science and

Tech. of China

17:30-17:45 WeE6.3

Robust Tracking for a Class of Uncertain Switched Linear Systems Based on the Uncertainty and Disturbance *Estimator*, pp. 2889-2894.

Guo, Rongwei Qilu Univ. of Tech Texas Tech. Univ Dai, Jiguo

Ren, Beibei	Texas Tech. Univ
17:15-18:00	WeE6.4
Fault Detection for Networked pp. 2895-2898.	Switched Nonlinear Systems,
Liu, Xinxin	Chongqing Univ
Su, Xiaojie	Chongqing Univ
Liu, Jianxing	Harbin Inst. of Tech
WeE7	Arena E
Variable-Structure/Sliding-Mode	, ,
Chair: Guan, Zhi-Hong	Huazhong Univ. of Sci. & Tech
17:00-17:15	WeE7.1
Sliding Mode Based MIMO Cor Underwater Vehicle, pp. 2899-2	
Farhan, Muhammad Farhan	Capital Univ. of Sciences & Tech Islamabac
Bhatti, Aamer Iqbal Bhatti	Capital Univ. of Sciences & Tech Islamabac
Kamal, Waseem Ahmed Kamal	Centers of Excellence in Science & Applied Tech. Pakistar
yousafzai, Imran Khan	Capital Univ. of Sciences & Tech Islamabac
17:15-17:30	WeE7.2
Super-Twisting Based Integra to a Rotary Flexible Joint Robo	I Sliding Mode Control Applied of Manipulator, pp. 2905-2910.
Rsetam, Kamal	Swinburne Univ. of Tech
Cao, Zhenwei	Swinburne Univ. of Tech
Man, Zhihong	Faculty of Engineering, Swinburne Univ. of Tech
17:30-17:45	WeE7.3
Reduced Output Feedback Bas and Higher-Order Sliding Mod	
Sharma, Nalin Kumar	Indian Inst. of Tech. Delh
Janardhanan, S	IIT Delh
17:15-18:00	WeE7.4
Proxy-Based Sliding Mode Sta Order Nonlinear System, pp. 29	bilization of a Class of Second- 917-2922.
Ding, Guangzheng	Huazhong Univ. of Science and

Tech

Tech

Tech

Huazhong Univ. of Science &

Huazhong Univ. of Science &

Huazhong Univ. of Sci. & Tech

	Interactive Paper Presentation Session (Poster Papers) - Wednesday 20 Dec 2017 Foyer F, 15:30-17:00			
Poster Board	Paper Title	Session	Pape r ID	
1	Modeling and Investigating Load Distribution and Resource (Re-)Allocation for Next Generation Automation Solutions	Network and Distributed Systems	443	
2	Awareness Design and Analysis Upon Two Infectious States Based on Susceptible-Exposed- Infected-Vigilant (SEIV) Model	Network and Distributed Systems	460	
3	Stochastic Stability of Opinion Dynamics with Stubbornness	Network and Distributed Systems	182	
4	Synchronization of Delayed Lur'e Complex Dynamical Networks with Delayed Coupling	Network and Distributed Systems	228	
5	Autonomous Remote Monitoring System by Flexible Data Flow Management	Network and Distributed Systems	278	
6	Adaptive Fault-Tolerant Tracking Control for Singular Multi-Agent Systems	Network and Distributed Systems	185	
7	Distributed Model Predictive Control with Switching Topology Network	Network and Distributed Systems	238	
8	Frequency-Dependent Filtering for Networked Control Systems with Communication Constraints	Network and Distributed Systems	99	
9	Dynamic Output Feedback Control of Networked Control Systems with Aperiodic Sampling and Time-Varying Delays	Network and Distributed Systems	464	
10	H∞ Formation Control Design for Multiple Euler-Lagrange Agents Subjected to Switching Topologies	Network and Distributed Systems	310	
11	Formation-containment Control of Second-order Multi-agent Systems with Time Delays	Network and	461	
12	Distributed Convex Optimization in Networks of Agents with Single-Integrator Dynamics	Distributed Systems Network and	423	
13	Distributed Model Predictive Formation Control with Inter-Vehicle Collision Avoidance	Distributed Systems Network and	158	
14	Robust Cooperative Tracking Protocol Design for Networked Higher Order Nonlinear Systems	Distributed Systems Network and	429	
15	Via Adaptive Second Order Sliding Mode Interaction Measurement for Complex Multivariable Models with Various Reference Inputs Based on RNGA	Distributed Systems Network and Distributed Systems	445	
16	A Distributed Control Algorithm Via Saddle Point Dynamics for Optimal Resource Allocation Problem Over Networked Systems	Network and Distributed Systems	121	
17	Active Vibration Control and Shape Morphing of Thin Plates Using Dynamic Inversion Technique	Network and Distributed Systems	560	
18	Active Vortex-Induced Vibration Control of a Flexible Rod Transported in Water	Network and Distributed Systems	286	
19	Backstepping-Based Observer for Output Feedback Stabilization of a Boundary Controlled Fractional Reaction Diffusion System	Network and Distributed Systems	17	
20	Time-Delay Compensator Design	Linear Systems and Signal Processing	530	
21	Finite-Time L2-L∞ Control of Markovian Jump Linear Systems with Partly Accessible Hidden Information Via Asynchronous Output Feedback	Linear Systems and Signal Processing	91	
22	Computation of Feasible Parametric Regions for Lyapunov Functions	Linear Systems and	615	
23	Stabilizing Controllers from Non-Coprime Factorization for Single-Input Single-Output Plants	Signal Processing Linear Systems and	629	
24	Design of Prediction Governors for Linear Systems with Input Saturation	Signal Processing Linear Systems and	138	
25	Transition Rule of Differentially Controllable Subspace for Linear Periodic Systems	Signal Processing Linear Systems and	187	
26	To Fish or Cut Bait?	Signal Processing Linear Systems and	416	
27	A Markov Decision Process Model for Inventory Control under Invisible Stock Loss and	Signal Processing Linear Systems and	75	
28	Inaccurate Record Stabilization of Switched Linear Systems under Arbitrary Switching Via Switched Observers	Signal Processing Linear Systems and	166	
29	Observer-Based Event-Triggered H-Infinity Control for Switched Linear Systems	Signal Processing Linear Systems and	632	
30	On Software Update Analysis via Kalman Decomposition	Signal Processing Linear Systems and	156	
31	Cooperative Spectrum Sensing Via 2-SPRT Based Multiple-Model Hypothesis Testing	Signal Processing Linear Systems and	159	
		Signal Processing		

32	A Monocycle Pulse Generator with Variable Capacitance Diodes for Radar Target Detecting Application	Linear Systems and Signal Processing	583
33	A Novel Ambiguity Resolution Method of Rolling Interferometer Based on Differential Reduction	Linear Systems and Signal Processing	620
34	Estimation Error Stability of the SDDRE Based Filter	Linear Systems and Signal Processing	45
35	Least Squares Error Criterion Based Estimator of Nonlinear Systems	Linear Systems and Signal Processing	255
36	Convergence-Enhanced Dense RGB-D Odometry with a Rotational Motion Prior from a Gyroscope	Linear Systems and Signal Processing	468
37	On the Sensor Fusion in the Walking Robots Design	Linear Systems and Signal Processing	529
38	Vision-Inertia Based Navigation Algorithms for Quadrotors	Linear Systems and Signal Processing	610
39	Key Technologies of GNSS/INS/VO Deep Integration for UGV Navigation in Urban Canyon	Linear Systems and Signal Processing	531
40	Stabilization of Pan-Tilt Systems Using Acceleration Based LMI-LQR Controller	Linear Systems and Signal Processing	367
41	Fast Algorithm of High-Dimensional Quantum State Estimation Via Low Measurement Rates	Linear Systems and Signal Processing	23
42	A New Approach to Clock Jitter Simulation in Digital Control System	Linear Systems and	14
43	Dynamic Evaluation of Field Characteristics by Pedestrian Flow	Signal Processing Linear Systems and Signal Processing	295
44	Active User Interface of Telemetric Body Area Network System	Signal Processing Linear Systems and	296
45	Synchronization of master-slave neural networks with sampled-data control and actuator	Signal Processing Linear Systems and	462
46	saturation Trajectory Tracking Control for Unmanned Helicopter Based on Sliding Mode Observer	Signal Processing Control Applications	597
47	Study on the Controllability of a Drogue for Hose-Drogue Aerial Refueling System	Control Applications	20
48	Fractional Order PID Control of Four Links Mechanism Using Particle Swarm Optimization	Control Applications	80
49	Algorithm with Parameters Tuning Data Driven Disturbance Observer Design and Control for Diesel Engine Airpath	Control Applications	360
50	GMVC-Based Optimal Plant-Wide PID Tuning for a Multiple Effect Evaporator	Control Applications	442
51	Quantitative Robust Control Design of Discharge Air Temperature System	Control Applications	44
52	Downhole-Friction-Estimation-Based Rotary Speed Control for Drillstring System with Stick- Slip Vibrations	Control Applications	186
53	Cruise Control of a Heavy Duty Truck on Open Road The Benchmark Problem	Control Applications	542
54	Moving Horizon Velocity Estimation for Caster Odometer on Uneven Ground	Control Applications	587
55	Reheated Steam Temperature Control in Thermal Power Plant Using Integral-Linear Active Disturbance Rejection Control	Control Applications	109
56	Control Method for Reducing Energy Consumption of Active Seismic Isolation Device with Power Generation Function	Control Applications	147
57	EGR-VGT Equipped Heavy Duty Diesel Engine Calibration and Air Path Control for Optimized Nitric Oxide (NOx) Emissions	Control Applications	124
58	Wind Turbine Down-Regulation Strategy for Minimum Wake Deficit	Control Applications	214
59	Fundamentals for the Next Generation of Automation Solutions of the Fourth Industrial Revolution	Control Applications	543
60	On the Tuning of Nested-Structure Dynamic-Positioning Control of a Marine Craft	Control Applications	439
61	Sliding Mode Control Design with the Time Varying Parameters of the Sliding Surface of an Offshore Container Crane	Control Applications	142
62	Teleoperate System of Underwater Cleaning Robot Based on HUD	Control Applications	39
63	Sliding Mode Control of a Dual-Trolley Mobile Harbor Crane in the Presence of Wave-Induced Ship Motions	Control Applications	335
64	An Adaptive Direct Power Controller for Three-Phase Grid-Connected Photovoltaic Systems with Parametric Uncertainties	Control Applications	250
65	The Design of Wide-Area Supplementary Reduced-Order DOFC with Prescribed Stability Degree for Damping Inter-Area Low-Frequency Oscillations in Uncertain Power System	Control Applications	36

66	Remaining useful life prediction of Lithium-ion battery using a hybrid model-based filtering and data-driven approach	Control Applications	153
67	A GA-SVM and D-S Evidence Theory Based Method for Shunt-Fault Diagnosis in Power Systems	Control Applications	116
68	An Enhanced Extreme Learning Machine with a Double Parallel Structure and Its Application to Modeling Complex Chemical Processes	Control Applications	410
69	A Method for Process Identification and Model Reduction to Design PID Controller for Thermal Power Plant	Control Applications	634
70	Control-Oriented Identification Using Maximum Likelihood for a District Heating Plant	Control Applications	112
71	Modeling and Active Disturbance Rejection Control of a Single Effect LiBr-H2O Absorption Chiller	Control Applications	222
72	Adaptive Nonlinear Control of the Czochralski Process Via Integration of Second Order Sliding Mode and Iterative Learning Control	Control Applications	554
73	Nonlinear Tracking Control of a Cryogenic Separation Process	Control Applications	640
74	Dynamic Model of a Three-Dimensional Flexible Cantilever Beam Attached a Moving Hub	Control Applications	293
75	Path Planning and Control of a Quadrotor UAV: A Symbolic Approach	Control Applications	387
76	Robust Design of DNA Feedback Regulator for Molecular Robot	Control Applications	619
77	Model Reference Adaptive Guidance for Trajectory Correction Projectile	Control Applications	513