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Technical Program for Wednesday June 12, 2013

**WeK1P Grand Ballroom**

*Keynote Speech I: Convexity Issues in System Identification by Professor Lennart Ljung (Plenary Session)*

- 09:00-10:00 WeK1P
  - Ljung, Lennart Linkoping Univ.

**WeK2P Grand Ballroom**

*Keynote Speech II: Optimal Operational Control for Complex Industrial Processes by Professor Tianyou Chai (Plenary Session)*

- 10:30-11:30 WeK2P
  - Optimal Operational Control for Complex Industrial Processes.
  - Chai, Tianyou Northeastern Univ.

**WeK3P Grand Ballroom**

*Keynote Speech III: Robust Adaptive Control: Expectations and Reality by Professor Petros A. Ioannou (Plenary Session)*

- 11:30-12:30 WeK3P
  - Robust Adaptive Control: Expectations and Reality.
  - Ioannou, Petros A. Univ. of Southern California

**WeC1 Rose**

*Linear Systems (Regular Session)*

- Chair: Zhou, Kemin Louisiana State Univ.
- Co-Chair: Gu, Keqin Southern Illinois Univ. at Edwardsville

- 13:30-13:50 WeC1.1
  - Dong, Xin-zhuang Qingdao Univ.
  - Mao, Qing-tang Qingdao Univ.
  - Tian, Wan-hu Qingdao Univ.
  - Wang, Dongqing Qingdao Univ.

- 13:50-14:10 WeC1.2
  - On the Robust Stability Analysis with Real Block Structured Uncertainties, pp. 16-20.
  - Liu, Jiabin Southwest Jiaotong Univ.
  - Zhou, Kemin Louisiana State Univ.
  - Ma, Lei Southwest Jiaotong Univ.

- 14:10-14:30 WeC1.3
  - Li, Yongmin Huzhou Normal Coll.
  - Gu, Keqin Southern Illinois Univ. at Edwardsville
  - Xu, Shengyuan Nanjing Univ. of Science and Tech.

- 14:30-14:50 WeC1.4
  - Olivares, Manuel Univ. Tecnica Federico Santa Maria
  - Albertos, Pedro Univ. Pol. de Valencia

- 14:50-15:10 WeC1.5
  - Passive-Damping Design for Vibration Control of Large Structures (I), pp. 33-38.
  - Palacios-Quinonero, Francisco Tech. Univ. of Catalonia (UPC)
  - Karimi, Hamid Reza Univ. of Agder
  - Rubi-Massegu, Josep Univ. Pol. de Catalunya
  - Rossell, Josep M. Univ. Pol. de Catalunya

**WeC2 Magnolia**

*Data-Driven Learning and Control (Regular Session)*

- Chair: Hou, Zhongsheng Beijing Jiaotong Univ.
- Co-Chair: Hu, Jing Zhejiang Univ.

- 13:30-13:50 WeC2.1
  - Hakem, Assia LAGIS FRE 3303 Univ. Lille1
  - Coquemont, Vincent Lille 1 Univ.
  - Pekpe, Komi Midzodzi Univ. Lille 1, LAGIS

- 13:50-14:10 WeC2.2
  - Iterative Learning Control Based Automatic Train Operation with Iteration-Varying Parameter, pp. 51-56.
  - Li, Zhenxuan Beijing Jiaotong Univ.
  - Yin, Chenkun BJTU
  - Jin, Shangtai Beijing Jiaotong Univ.
  - Hou, Zhongsheng Beijing Jiaotong Univ.

- 14:10-14:30 WeC2.3
  - Data-Driven Aided Parity Space-Based Approach to Fast Rate Residual Generation in Non-Uniformly Sampled Systems, pp. 57-62.
  - Li, Ping Zhejiang Univ.
  - Wen, Chenglin Hangzhou Dianzi Univ.
  - Hu, Jing Zhejiang Univ.

- 14:30-14:50 WeC2.4
  - Iterative Learning Based Particle Size Distribution Control in Grinding Process Using Output PDF Method, pp. 63-68.
  - Sun, Xubin Beijing Jiaotong Univ.
  - Ding, Jiniang Northeastern Univ.
  - Wang, Hong Univ. of Manchester
  - Chai, Tianyou Northeastern Univ. of China Res. Center of Automation
  - Dong, Hairong Beijing Jiaotong Univ.

- 14:50-15:10 WeC2.5
  - Logic Switching Based Online Periodic Adaptive Learning Control Algorithm Dealing with Unknown Period and Bound of the Uncertain Parameter, pp. 69-72.
  - Wang, Jiasen Zhejiang Univ.
  - Yu, Miao Zhejiang Univ.
  - Ye, Xudong Zhejiang Univ.

- 15:10-15:30 WeC2.6
  - 2-D Theory Based Integrated Predictive Iterative Learning Control for Batch Process, pp. 73-77.
  - Chen, Chen Tsinghua Univ.
  - Xiong, Zhihua Tsinghua Univ.
  - Zhong, Yisheng Tsinghua Univ.
Autonomous Navigation and Control for Aerospace Systems (invited session)

Chair: Jiang, Bin NUAA
Co-Chair: Wang, Dayi Beijing Inst. of Control Engineering
Organizer: Wang, Dayi Beijing Inst. of Control Engineering
Organizer: Jiang, Bin NUAA

13:30-13:50 WeC3.1
Autonomous Fault-Tolerant Time-Varying Attitude Tracking Control of Uncertain Flexible Satellite (I), pp. 78-82.
Meng, Qiang Tsinghua Univ.
Zhang, Tao Tsinghua Univ.
Song, Jingyan Tsinghua Univ.

13:50-14:10 WeC3.2
Cheng, Yuehua NUAA
Jiang, Bin NUAA
Ma, Yajie NUAA
Qi, Haiming NUAA
Liu, Chengrui Beijing Inst. of Control Engineering

14:10-14:30 WeC3.3
Finite-Time Control for Formation Flying Spacecraft with Coupled Attitude and Translational Dynamics (I), pp. 89-94.
Guo, Yong Harbin Inst. of Tech.
Song, Shen-Min Harbin Inst. of Tech.

14:30-14:50 WeC3.4
Study on the Observability Analysis Based on the Trace of Error Covariance Matrix for Spacecraft Autonomous Navigation (I), pp. 95-98.
Li, Maodeng Beijing Inst. of control engineering
Wang, Dayi Beijing Inst. of Control Engineering
Huang, Xiangyu Beijing Inst. of control engineering

14:50-15:10 WeC3.5
Maneuver Sequence Planning for Autonomous Navigation Based on Multiple Asteroid Images (I), pp. 99-104.
Xu, Rui Beijing Inst. of Tech.
Zhu, Shengying Beijing Inst. of Tech.
Gao, Ai Beijing Inst. of Tech.
Xu, Wenming Beijing Inst. of Tech.
Wu, Changqing Beijing Inst. of Tech.

15:10-15:30 WeC3.6
Reconfigurability Analysis Method for Spacecraft Autonomous Control (I), pp. 105-110.
Liu, Chengrui Beijing Inst. of Control Engineering
Wang, Dayi Beijing Inst. of Control Engineering

Cooperative Control of Multi-Agent Systems (invited session)

Chair: Wen, Guanghui Southeast Univ.
Co-Chair: Hu, Guoqiang Nanyang Tech. Univ.
Organizer: Ren, Wei Univ. of California, Riverside
Organizer: Hu, Guoqiang Nanyang Tech. Univ.

13:30-13:50 WeC4.1
Leader-Following Consensus Control for Linear Multi-Agents Systems with Switching Directed Topologies (I), pp. 111-116.
Wen, 32644 Southeast Univ.

13:50-14:10 WeC4.2
Range Based Target Localization Using a Single Mobile Robot or Multiple Cooperative Mobile Robots (I), pp. 117-122.
Zhang, Xiangyu Univ. of Southern California
Li, Sen The Ohio State Univ.
Lin, Zhiyuan Zhejiang Univ.
Wang, Hui Zhejiang Univ.

14:10-14:30 WeC4.3
Feng, Zhi Nanyang Tech. Univ.
Hu, Guoqiang Nanyang Tech. Univ.

14:30-14:50 WeC4.4
Optimal Awareness Coverage Control for Networked Mobile Sensors with Awareness Loss (I), pp. 129-134.
Song, Cheng Nanjing Univ. of Science and Tech.
Feng, Gang City Univ. of Hong Kong
Huang, Yanyan Nanjing Univ. of Science and Tech.

14:50-15:10 WeC4.5
Distributed Algorithms for Shape Sculpting of Lattice-Arrayed Modular Robots Via Hole Motion (I), pp. 135-140.
Zhu, Jingwei Univ. of Hong Kong
Chen, Michael Z. Q. The Univ. of Hong Kong
Su, Housheng Huazhong Univ. of Science and Tech.

15:10-15:30 WeC4.6
Observers Design in Complex Networks: Pinning Observability (I), pp. 141-146.
Yu, Wenwu Southeast Univ.
Wen, 32644 Southeast Univ.
Lu, Jinhu Chinese Academy of Science
Yu, Xinghuo RMIT Univ.

Control Applications I (Interactive Session)

Chair: Tang, K.Z. National Univ. of Singapore
Co-Chair: Shan, Liang Nanjing Univ. of Science & Tech.

13:30-13:50 WeCP1.1
Precession-Based Control Methodology for Haematopoietic Stem Cells Harvesting, pp. 147-151.
Tang, K.Z. National Univ. of Singapore
Tan, Gabriel NUS
Zhou, Yang NUS

13:30-13:50 WeCP1.2
Rao, Jinchao zhejiang Univ.
Wang, Hui zhejiang Univ.

13:30-15:30 WeCP1.3
Study of Waveform Generation in Simulation Torque-Loading System Based on LabVIEW, pp. 158-163.
Zhang, Chenwei Nanjing Univ. of Science & Tech.
Wang, Jianbo Nanjing Univ. of Science & Tech.
Shan, Liang Nanjing Univ. of Science & Tech.
Kong, Jianshou Nanjing Univ. of Science & Tech.
13:30-15:30 WeCP1.4
Optimal Preview Control of Dual-Stage Actuator Systems for Triangular References Tracking, pp. 164-169.
Wang, Li Zhejiang Univ.
Zheng, Jinchuan Swinburne Univ. of Tech.
Fu, Minyue Univ. of Newcastle

13:30-15:30 WeCP1.5
A Supervised Self-Organizing Approach for Large-Scale Multistage Batch Scheduling Problems, pp. 170-175.
Yang, Fan Shandong Univ.
Liang, Tao Shandong Electric Power Engineering Consulting Inst. Corp. L
Song, Wen Shandong Univ.
Li, Qiqiang Shandong Univ.

13:30-15:30 WeCP1.6
Design and Implementation of an Internet-Based Electrical Engineering Laboratory, pp. 176-179.
He, Zhenlei Zhejiang Univ.
Zhu, Shanan Zhejiang Univ.

13:30-15:30 WeCP1.7
Mi, Yang Shanghai Univ. of Electrical Power

13:30-15:30 WeCP2
Power and Energy Systems (Interactive Session)
Chair: Lu, Jiangang Zhejiang Univ.
Co-Chair: Deng, Qijun Wuhan Univ.

13:30-15:30 WeCP2.1
A Soft Start-Up Scheme for DC-Link Voltage Pumping in Active Power Filter, pp. 184-189.
Hu, Jingao Fuzhou Univ.
Cheng, Guoyang Fuzhou Univ.

13:30-15:30 WeCP2.2
Optimum Design of Coil for Wireless Energy Transmission System Based on Resonant Coupling, pp. 190-195.
Like, Gao Guangxi Power Grid Corporation
Hu, Wenshan Guangxi Power Grid Corporation
Deng, Qijun Guangxi Power Grid Corporation
Xie, Xiongwei Guangxi Power Grid Corporation
Zhou, Hong Guangxi Power Grid Corporation
Jiang, Yan Guangxi Power Grid Corporation

13:30-15:30 WeCP2.3
Wu, Zhiding Guangxi Power Grid Corporation
Deng, Qijun Guangxi Power Grid Corporation
Xie, Xiongwei Guangxi Power Grid Corporation
Hu, Wenshan Guangxi Power Grid Corporation
Like, Gao Guangxi Power Grid Corporation
Zhou, Hong Guangxi Power Grid Corporation
Liu, Changkun Guangxi Power Grid Corporation

13:30-15:30 WeCP2.4
Like, Gao Guangxi Power Grid Corporation

13:30-15:30 WeCP2.5
Research on Series-Shunt Compound Control Applying to Shunt Active Power Filter, pp. 208-212.
Bing, Shen Naval Univ. of Engineering
Yihui, Xia Naval Univ. of Engineering

13:30-15:30 WeCP2.6
Wang, Wei North China Electric Power Univ.
Shi, Xinchun North Electric Power Univ.
Meng, Jianhui North Electric Power Univ.
Huang, Tianfu North Electric Power Univ.

13:30-15:30 WeCP2.7
Sliding Mode Control of Hydrogen Production Via Autothermal Reforming of Methanol, pp. 218-222.
Wang, Xuefei Zhejiang Univ.
Lu, Jiangang Zhejiang Univ.
Zhuang, Hong Zhejiang Univ.
Zheng, Jianfeng Zhejiang Univ.
Yang, Qinmin Zhejiang Univ.
Chen, Jinshui Zhejiang Univ.
Sun, Youxian Zhejiang Univ.

13:30-15:30 WeCP2.8
Huang, Suwen Zhejiang Univ.
Wang, Wenhai Zhejiang Univ.

13:30-15:30 WeCP2.9
Krueger, Minjia Univ. of Duisburg-Essen
Ding, Steven X. Univ. of Duisburg-Essen
Haghani, Adel Univ. of Duisburg-Essen
Engel, Peter PC-Soft GmbH
Jeinsch, Torsten IAV GmbH

13:30-15:30 WeCP3
Sensor/data Fusion (Interactive Session)
Chair: Wang1, Qiang1 China Jiliang Univ.
Co-Chair: Chen, Qiang Zhejiang Univ. of Tech.

13:30-15:30 WeCP3.1
Zhou, Zhe Zhejiang Univ.
Yang, Chunjie Zhejiang Univ.
Wen, Chenglin Hangzhou Dianzi Univ.

13:30-15:30 WeCP3.2
Chen, Qiang Zhejiang Univ. of Tech.
Ren, Xuemei Beijing Inst. of Tech.
Xing, Kexin Zhejiang Univ. of Tech.
13:30-15:30 WeCP3.3
Ji, Pengfei Tsinghua Univ.
Gao, Xinqing Tsinghua Univ.
Huang, Dexian Tsinghua Univ.
Yang, Yue Yunnan Dawei Ammonia Co. LTD

13:30-15:30 WeCP3.4
Ma, Dexin Qingdao Agricultural Univ.
Ma, Jian Beijing Univ. of Posts and Telecommunications
Xu, Pengmin Qingdao Agricultural Univ.
Gai, Lingyun Qingdao Agricultural Univ.
Wang, Hai Qingdao Agricultural Univ.
Lv, Guangjie Qingdao Agricultural Univ.
Shi, Hongtao Qingdao Agricultural Univ.

13:30-15:30 WeCP3.5
Simulation of High-Speed Train Pass-By Noise Source Identification Based on MVDR Beamforming, pp. 254-258.
Zhang, Jie Chia Jiliang Univ.
Wang1, Qiang1 China Jiliang Univ.

13:30-15:30 WeCP3.6
Kalman Filtering for Multiple-Delay Wireless Network Systems with Multiplicative Noises, pp. 259-263.
Lu, Xiao Shandong Univ. of Science and Tech.
Chen, Jing Shandong Univ. of Science and Tech.

WeCP4
System Modelling and Identification I (Interactive Session)
13:30-15:30 WeCP4.1
Shi, Xiaomin Shanghai Univ.
Qin, Kai-Rong Dalian Univ. of Tech.
Liu, Zengrong Shanghai Univ.
Zheng, Yufan Univ. of Shanghai

13:30-15:30 WeCP4.2
A Novel Unified Linear Biased Estimator, pp. 268-273.
Yue, Yuanlong China Univ. of Petroleum
Zuo, Xin China Univ. of Petroleum
Wang, Lijun China Univ. of Petroleum, Beijing

13:30-15:30 WeCP4.3
EKF-Based Estimation of SOC and Temperature in Ultracapacitors, pp. 274-279.
Chiang, Chia-Jui National Taiwan Univ. of Science and Tech.
Yang, Jing-Long National Taiwan Univ. of Science and Tech.
Cheng, Wen-Chin National Taiwan Univ. of Science and Tech.

13:30-15:30 WeCP4.4
A New Method for Parameter Identifiability of DAE Systems, pp. 280-283.
Chen, Li ZheJiang Univ.
Chen, Xi ZheJiang Univ.
Qian, Jixin the Department of Control Science & Engineering
Yao, Zhen the Department of Chemical & Biological Engineering

13:30-15:30 WeCP4.5
Li, Shanhui Xi'an Jiaotong Univ.
Mei, Xuesong Xi'an Jiaotong Univ.
Li, Jian Henan Univ. of Science and Tech.
Kong, Fanfeng Xi'an Jiaotong Univ.

13:30-15:30 WeCP4.6
Model Predictive Control Based on Experience Model for the S-Trioxane Concentration Column, pp. 290-293.
Huang, Bingqiang Zhejiang Univ.
Gu, Yong State Key Lab. of Industrial Control Tech. Inst.
Su, Hongye State Key Lab. of Industrial Control Tech. Inst.

16:00-16:20 WeD1.1
Quadratic Optimal Fault Tolerant Control on Wireless Networked Control System, pp. 300-305.
Xu, Dongmei Univ. of Duisburg-Essen
Ding, Steven X. Univ. of Duisburg-Essen
Wang, Ying Univ. of Duisburg-Essen
Shen, Bo Donghua Univ. China

16:20-16:40 WeD1.2
Fuzzy Decentralized Control for a Class of Networked Control Systems with Time Delays and Missing Measurements, pp. 306-311.
Zhou, Feng City Univ. of Hong Kong
Li, Lu City Univ. of Hong Kong
Feng, Gang City Univ. of Hong Kong

16:40-17:00 WeD1.3
Bi, Zhuming Indiana Univ. Purdue Univ. Fort Wayne

17:00-17:20 WeD1.4
Dissipativity Based Analysis and Control of Process Networks with Varying Time Delay, pp. 318-323.
Tippett, Michael James Univ. of New South Wales
Zheng, Chaoxu Univ. of New South Wales
Bao, Jie Univ. of New South Wales

17:20-17:40 WeD1.5
Robust Fault Detection for the Networked Control System with Model Uncertainty, pp. 324-329.
Qi, Xiaomei Shandong Univ. of Tech.
Gu, Jason Dalhousie Univ.
Zhang, Cheng-Jin Shandong Univ.
Networked Stabilization with Polar Logarithmic Quantization, pp. 330-335.

Gu, Guoxiang Louisiana State Univ.
Qiu, Li Hong Kong Univ. of Sci. & Tech.

WeD2

Process Control & Instrumentation I (Regular Session)

Chair: Sui, Dan Sintef, Norway
Co-Chair: Huang, Wenjun Zhejiang Univ. Zhejiang SUPCON Tech. Co., Ltd.

16:00-16:20 WeD2.1


Wu, Jun Zhejiang Medical Coll.
Xu, Yi Zhejiang Supcon Tech. Co., Ltd
Li, Long Zhejiang Univ.
Li, Dewen Zhejiang Univ.
Huang, Wenjun Zhejiang Univ.

16:20-16:40 WeD2.2


Yu, Xiao Nanjing Univ.
Li, Li Nanjing Univ.
Zhang, Yang Nanjing Univ.
Pan, Hongbing Nanjing Univ.
He, Shuzhuang Nanjing Univ.

16:40-17:00 WeD2.3


Yu, Liyong RWTH Aachen Univ.
Schüller, Andreas RWTH Aachen Univ.
Eppe, Ulrich RWTH Aachen Univ.

17:00-17:20 WeD2.4

Research on Small Mobile Water Quality Online Monitoring Device, pp. 351-356.

Deng, Shangchao Zhejiang Univ.
Yang, Jiang Zhejiang Univ.
Wu, Yu Zhejiang Univ.
Lu, Jiangang Zhejiang Univ.

17:20-17:40 WeD2.5

Real-Time Optimization of Rate of Penetration During Drilling by Model Predictive Control, pp. 357-362.

Sui, Dan Sintef, Norway
Nyba, Roar Drilling and well construction, Sintef
Azizi, Yahid Baker Hughes Company

17:40-18:00 WeD2.6


Li, Dewen Zhejiang Univ.
Huang, Wenjun Zhejiang Supcon Group Co., Ltd.
Li, Long Zhejiang Univ.
Li, Long Zhejiang Univ.

WeD3

Optimization and Distributed Control for UAV (Invited Session)

Chair: Duan, Haibin Beihang Univ.
Co-Chair: Lan, Weiyao Xiamen Univ.

16:00-16:20 WeD3.1


Zhou, Ziwei Beihang Univ.
Duan, Haibin Beihang Univ.
Li, Pei BUAA
Di, Bin BUAA

16:20-16:40 WeD3.2

The ADRC Design for UAV Longitudinal Channel and Its Parameter Optimization Based on ACO (I), pp. 373-377.

Geng, Qingbo Beijing Inst. of Tech.
Tian, Pei-gang Beijing Inst. of Tech.

16:40-17:00 WeD3.3

One Dimensional Trajectory Optimization for Stratospheric Airship with Varying Thruster Efficiency (I), 378-383

Lin, Xianwu Department of Automation, Xiamen Univ.
Hong, Luhe Xiamen Univ.
Lan, Weiyao Xiamen Univ.

17:00-17:20 WeD3.4

Optimal Control Design Based on Reinforcement Learning for a Class of Nonlinear Distributed Systems (I), pp. 384-389.

He, Zhen Nanjing Univ. of Aeronautics and Astronautics
Liu, Yanbin Nanjing Univ. of Aeronautics and Astronautics

17:20-17:40 WeD3.5

Reducing the Error of Sampled-Data Nonlinear Observers with Numerical Approaches (I), pp. 390-393.

Geng, Lin National Univ. of Singapore
Zhang, Yunfeng National Univ. of Singapore
Wang, Jingjing National Univ. of Singapore
Fuh, Jerry Ying Hsi National Univ. of Singapore
Teo, S H DSO National Lab.

17:40-18:00 WeD3.6

Cooperative Task Planning for Multiple Autonomous UAVs with Graph Representation and Genetic Algorithm, pp. 394-399.

Geng, Lin National Univ. of Singapore
Zhang, Yunfeng National Univ. of Singapore
Wang, Jingjing National Univ. of Singapore
Fuh, Jerry Ying Hsi National Univ. of Singapore
Teo, S H DSO National Lab.

WeD4

Computational Intelligence: Algorithms and Applications (Invited Session)

Chair: Shim, Vui Ann Inst. for Infocomm Res.
Co-Chair: Do, Yongtae Daegu Univ.
Organizer: Tan, Kay Chen NUS

16:00-16:20 WeD4.1

ELM-MapReduce: MapReduce Accelerated Extreme Learning Machine for Big Spatial Data Analysis (I), pp. 400-405.

Chen, Jiaoyan Zhejiang Univ.
Chen, Huajun Zhejiang Univ.
Zheng, Guozhou Zhejiang Univ.

16:20-16:40 WeD4.2


Tang, Huajin Inst. for Infocomm Res.
Tian, Bo Inst. for Infocomm Res.
Shim, Vui Ann Inst. for Infocomm Res.
### WeD4.3

**A Hybrid of Decomposition and Domination Based Evolutionary Algorithm for Multi-Objective Software Next Release Problem (I)**
pp. 412-417.

- **Cai, Xinye** Nanjing Univ. of Aeronautics&Astronautics
- **Wei, Ou** Nanjing Aeronautics and Astronautics Univ.

### WeD4.4

**On the Neural Computation of the Scale Factor in Perspective Transformation Camera Model (I)**
pp. 418-423.

- **Do, Yongtae** Daegu Univ.

### WeD4.5

**Extreme Learning Machine with Multiple Kernels (I)**
pp. 424-429.

- **Su, Li Juan** Zhejiang Univ.
- **Yao, Min** Zhejiang Univ.

### WeD4.6

**Building a Commonsense Knowledge Base for Context-Awareness Inference (I)**
pp. 430-435.

- **Zhang, Li** Zhejiang Univ.
- **Li, Shijian** Zhejiang Univ.
- **Pan, Gang** Zhejiang Univ.

### WeDP1

**Adaptive Control (Interactive Session)**
VIP Room

- **Chair:** Chen, Wen Wayne State Univ.
- **Co-Chair:** Li, Jin-hui NUDT

16:00-18:00 WeDP1.1


- **Li, Jin-hui** NUDT, Maglev engineering center
- **Li, Jie** National Univ. of Defense Tech.
- **Cui, Peng** National Univ. of Defense Tech.

16:00-18:00 WeDP1.2

**Adaptive Neural Sliding Mode Compensator for MEMS Gyroscope**, pp. 441-446.

- **Yang, Yuzheng** Hohai Univ.
- **Fei, Juntao** Hohai Univ.

16:00-18:00 WeDP1.3

**Robust Fault Detection of Turbofan Engines Subject to Adaptive Controllers Via a ToMFIR Technique**, pp. 447-451.

- **Chen, Wen** Wayne State Univ.
- **Djuric, Ana** Wayne State Univ.

16:00-18:00 WeDP1.4


- **Dong, Lili** Cleveland State Univ.
- **You, Silu** Cleveland State Univ.

16:00-18:00 WeDP1.5


- **Ding, Jian** Jiangnan Univ.
- **Yang, Huizhong** Jiangnan Univ.

16:00-18:00 WeDP1.6


- **Tian, Bailing** Tianjin Univ.
- **Fan, Wenru** Civil Aviation Univ. of China

### WeDP2

**Integrated Manufacturing (Interactive Session)**
VIP Room

- **Chair:** Cui, Wei-Wei Shanghai Jiao Tong Univ.
- **Co-Chair:** Luo, Jiaxiang South China Univ. of Tech.

16:00-18:00 WeDP2.1


- **Cui, Wei-Wei** Shanghai Jiao Tong Univ.
- **Lu, Zhiqiang** Tongji Univ.

16:00-18:00 WeDP2.2


- **Sun, Defeng** Northeastern Univ. China
- **Tang, Lixin** Northeastern Univ.

16:00-18:00 WeDP2.3


- **Qian, Bin** Kunming Univ. of Science and Tech.
- **Li, Zh** Kunming Univ. of Science and Tech.
- **Hu, Rong** Kunming Univ. of Science and Tech.
- **Zhang, Cs** Kunming Univ. of Science and Tech.

16:00-18:00 WeDP2.4

**A New GRASP and Path Relinking for Single Machine Scheduling with Sequence Dependent Setups**, pp. 490-495.

- **Luo, Jiaxiang** South China Univ. of Tech.
- **Hu, Yue-ting** South China Univ. of Tech.

16:00-18:00 WeDP2.5


- **Wang, Haoxiang** Southeast Univ.
- **Yan, Hongsen** Southeast Univ.

### WeDP3

**Nonlinear Systems and Control I (Interactive Session)**
VIP Room

- **Chair:** Yang, Xi Zhejiang Univ. of Tech.
- **Co-Chair:** Mu, Chaoxu Tianjin Univ.

16:00-18:00 WeDP3.1

**A Note on Discrete Waveform Relaxation of Stiff Index-1 Differential Algebraic Equations**, pp. 502-506.

- **Sun, Wei** XJING Univ.
- **Fan, Xiao-Guang** Engineering Inst. Air Force Engineering Univ.

16:00-18:00 WeDP3.2


- **Hua, Changchun** Yanbian Univ.
- **Zhang, Liuliu** Yanbian Univ.

16:00-18:00 WeDP3.3


- **Lei, Zhang** Donghua Univ.
- **Ding, Yongsheng** Donghua Univ.


Online Virtual Experiment of Power Electrical Devices Based on XML and Modelica, pp. 534-537.

Server Structure Based on Netty Framework for Internet-Based Laboratory, pp. 538-541.

An Introduction to One Component Level Control Technology - DeviceLogix, pp. 542-548.


B/S Implementation of Internet-Based Electrical Engineering Lab with MVC Architecture, pp. 551-555.
Technical Program for Thursday June 13, 2013

ThA1

Signal Processing I (Regular Session)
Chair: Huang, Biao
Co-Chair: Wang, Youyi

08:30-08:50 ThA1.1
Mao, Ximeng
Shanghai Jiao Tong Univ.
Chen, Cailian
Shanghai Jiao Tong Univ.
Guan, Xinping
Shanghai Jiao Tong Univ.

08:50-09:10 ThA1.2
Ellipsoidal Set Based Robust Particle Filtering for Recursive Bayesian State Estimation, pp. 568-573.
Shao, Xinguang
Syncrude Canada Ltd.
Zhao, Zhonggai
Jiangnan Univ.
Liu, Fei
Jiangnan Univ.
Huang, Biao
Univ. of Alberta

09:10-09:30 ThA1.3
A Novel Hypothesis Splitting Method Implementation for Multi-Hypothesis Filters, pp. 574-579.
Bayramoglu, Enis
Tech. Univ. of Denmark
Ravn, Ole
Tech. Univ. of Denmark
Andersen, Nils A.
Tech. Univ. of Denmark

09:30-09:50 ThA1.4
Li-Ion Battery SOC Estimation Using Particle Filter Based on an Equivalent Circuit Model, pp. 580-585.
Du, Jiani
Nanyang Tech. Univ.
Wang, Youyi
Nanyang Tech. Univ.
Wen, Changyun
Nanyang Tech. Univ.

09:50-10:10 ThA1.5
Keshavarz, Marziyeh
Univ. of Alberta
Huang, Biao
Univ. of Alberta

ThA2

Control Systems for Hybrid Electric Vehicles (Regular Session)
Chair: Tang, K.Z.
Co-Chair: Khodabakhshian, Mohammad

08:30-08:50 ThA2.1
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Shen, Tielong
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kako, Junichi
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xu, Guokai
Dalian Nationalities Univ.

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Feng, Lei
KTH Royal Inst. of Tech.
Wang, Youyi
Nanyang Tech. Univ.
Duan, Jiani
Nanyang Tech. Univ.

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Liu, Zhitaol
Zhejiang Univ.
Wang, Youyi
Nanyang Tech. Univ.
Du, Jiani
Nanyang Tech. Univ.

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Plum Blossom

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Chair: Lum, Kai-Yew
Co-Chair: Kuo, Yaw-Wen
Organizer: Kuo, Yaw-Wen
Organizer: Wu, Gin-Der
Organizer: Xu, Cai-Lin
Organizer: Lum, Kai-Yew

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Zhu, Zhen-Wei
National Chi Nan Univ.

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National Chi Nan Univ.
Shr, Hong-Kai
National Chi Nan Univ.
Wu, Meng-Shu
National Chi Nan Univ.

09:10-09:30 ThA3.3
Xu, Cai-Lin
National Chi Nan Univ.
Lum, Kai-Yew
National Chi Nan Univ.
Kuo, Yaw-Wen
National Chi Nan Univ.

09:30-09:50 ThA3.4
Hon, Bo Xuan
Department of Aeronautics, Imperial Coll.
Tian, Hongyu
National Univ. of Singapore
Wang, Fei
National Univ. of Singapore
Chen, Ben M.
National Univ. of Singapore
Lee, Tong Heng
National Univ. of Singapore

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Hou, Shengxiang
Department of Aeronautics, Imperial Coll.
Tian, Hongyu
National Univ. of Singapore
Wang, Fei
National Univ. of Singapore
Chen, Ben M.
National Univ. of Singapore
Lee, Tong Heng
National Univ. of Singapore
## ThA4  Recent Advances in Predictive Control and Optimization  (Invited Session)

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Feng, Shuai

BICE
BICE

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Jihong, Jihong
Chao, Zhang
Xiaming, Yuan

Tsinghua Univ.
Tsinghua Univ.
Tsinghua Univ.
Tsinghua Univ.

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Xiao, Peng
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Luan, Yiqing
Wang, Haipeng
Li, Li
Zhang, Feng
Pang, Dongzhe

Shandong Electric Power Res. Inst.
Shandong Electric Power Res. Inst.
Shandong Electric Power Res. Inst.
Shandong Electric Power Res. Inst.
Shandong Electric Power Res. Inst.
Shandong Electric Power Res. Inst.
North China Electric Power Univ.

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Univ. of Aeronautics and Astronautics
NUIAA
Nanjing Univ. of Aeronautics and Astronautics
Univ. of Aeronautics and Astronautics

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Chair: Dai, Yaping
Co-Chair: Zhao, Shiyu

Beijing Inst. of Tech.
National Univ. of Singapore

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Dai, Yaping

Beijing Inst. of Tech.
Beijing Inst. of Tech.

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Liu, Qingwei
Li, Jin
Liu, Mandan

East China Univ. of Science and Tech.
East China Univ. of Science and Tech.
East China Univ. of Science and Tech.

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ThAP3.4


Cao, Jianfu
Wang, Zhixue
Sun, Dongxu
Zheng, Jiguang
Jin, Feng

Xi'an Jiaotong Univ.
Xi'an Jiaotong Univ.
Xi'an Jiaotong Univ.
Xi'an Jiaotong Univ.
Xi'an Jiaotong Univ.

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Hangzhou Dianzi Univ.
Hohai Univ.

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Sun, Zhiyong
Liang, Feng
Yu, Changbin

Shandong Computer Science Center
Shandong Provincial Key Lab. of Computer Network, Shandong
center of shandong province
Australian National Univ.

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East China Univ. of Science and Tech.
East China Univ. of Sci. and Tech.

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TianJin Univ.
TianJin Univ.
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Xiang, Lejun
Dai, Yinyin
Lu, Xiaofen

Huqiao Univ.
Huaqiao Univ.

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Qiao, Jinghui
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Dandong Top Electronics Inst. Ltd
Dandong Top Electronics Inst. Ltd
Northeastern Univ.

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Chair: Markovski, Jasen  Eindhoven Univ. of Tech.
Co-Chair: Zhao, Shiyu  National Univ. of Singapore

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Markovski, Jasen  Eindhoven Univ. of Tech.

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Savkin, Andrey V.  Univ. of New South Wales
Nguyen, Tuan Nghia  Univ. of Tech. Sydney, Australia
Nguyen, Hung T.  Univ. of Tech. Sydney

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Geng, Lin  National Univ. of Singapore
Zhang, Yunfeng  National Univ. of Singapore
Wang, Jingjing  National Univ. of Singapore
Fuh, Jerry Ying Hsi  National Univ. of Singapore
Teo, S H  DSO National Lab.

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Cheng, Peng  Zhejiang Univ.
Chen, Jiming  Zhejiang Univ.
Sun, Youxian  Zhejiang Univ.

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Zhao, Shiyu  NUS
Lin, Feng  National Univ. of Singapore
Peng, Kemao  National Univ. of Singapore
Chen, Ben M.  National Univ. of Singapore
Lee, Tong Heng  National Univ. of Singapore

ThB2

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Co-Chair: Wang, Qing-Guo  National Univ. of Singapore
Organizer: Pang, Chee Khiang  National Univ. of Singapore

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Chen, Weidong  Nanjing Univ. of Aeronautics & Astronautics
Kang, Guohua  Nanjing Univ. of Aeronautics & Astronautics
Yang, Jing  Nanjing Univ. of Aeronautics & Astronautics
Wu, Fengxiong  Nanjing Univ. of Aeronautics & Astronautics

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Tan, Shujun  Dalian Univ. of Tech.
Wu, Zhigang  Dalian Univ. of Tech.

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You, Bindi  Harbin Inst. of Tech. Weihai

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Li, Yanxiong  South China Univ. of Tech.
Wei, Xin  South China Univ. of Tech.
Wang, Zili  South China Univ. of Tech.
Jiang, Yewen  South China Univ. of Tech.

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Chonglin, Li  Naval Univ. of Engineering

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Xu, Ke-Jun  Hefei Univ. of Tech.
Ma, Yuan  Hefei Univ. of Tech.

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Li, Wei  Jiangnan Univ.
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Co-Chair: He, Guang  National Univ. of Defense Tech.

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Zhang, Kun  National Univ. of Defense Tech.

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Dong, Hairong  Beijing Jiaotong Univ.
Chen, Yao  Acad. of Mathematics and Systems Science, Chinese Acad. of S
Wang, Qianling  Beijing Jiaotong Univ.

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de Souza, Carlos E.  National Lab. for Scientific Computing (LNCC)
Coutinho, Daniel  Univ. Federal de Santa Catarina

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Chair: Xie, Lihua  Nanyang Tech. Univ.
Co-Chair: Fu, Minyue  Univ. of Newcastle
Organizer: Xie, Lihua  Nanyang Tech. Univ.
Organizer: Fu, Minyue  Univ. of Newcastle
Organizer: Shi, Peng  School of Tech.

10:30-12:30  ThBP5.1

Input Addition for the Controllability of Graph-Based Systems, pp. 1103-1108.
Dion, Jean-Michel  CNRS
Commault, Christian.  GIPSA-Lab.

10:30-12:30  ThBP5.1

Adaptive Synchronization of Multi-Agent Systems with Unknown Nonlinear Dynamics, pp. 1144-1149.
Li, Gaoyang  China Three Gorges Univ.
Yu, Hui  China Three Gorges Univ.
Xia, Xiaohua  Univ. of Pretoria

13:30-13:50  ThC1.1

Hybrid and Multi-Agent Systems II (Regular Session)

Chair: Wang, Lei  Beihang Univ.
Co-Chair: Wang, Chuanrui  Univ. of Sci. and Tech. of China

13:30-13:50  ThC1.1

Quantized Consensus of First-Order Multi-Agent Systems under Directed Communication Topologies, pp. 1150-1153.
Li, Jianzhen  Jiangsu Univ. of Science and Tech.
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| 14:10-14:30  | ThC1.3    | Adaptive Containment Control of Coupled Linear Systems with Parameter Uncertainties | Ye, Shuxia Jiangsu Univ. of Science and Tech.  
Zhao, Yu Peking Univ.  
Wen, 32644 Southeast Univ.  
Li, Zhongkui Peking Univ.  
Duan, Zhisheng Peking Univ. |
| 14:30-14:50  | ThC1.4    | Leader Following Consensus for Multi-Agent Systems with Stochastic Packet Dropout | Gong, Xiang Dalhousie Univ.  
Pan, Ya-Jun Dalhousie Univ.  
Li, JianNing ZheJiang Univ.  
Su, Hongye State Key Lab. of Industrial Control Tech. Inst. |
| 14:50-15:10  | ThC1.5    | Leader-Following Consensus for an Integrator-Type Nonlinear Multi-Agents Using Distributed Adaptive Protocol | Wang, Chuanrui Univ. of Science and Tech. of China  
Wang, Xinghu Univ. of Science and Tech. of China  
Ji, Haibo Univ. of Science and Tech. of China |
| 15:10-15:30  | ThC1.6    | Bounded Consensus in Multi-Agent Systems of Asymmetrically Coupled Nonidentical Agents | Wang, Lei Beihang Univ.  
Yan, Song-lin Beihang Univ.  
Wang, Qing-Guo National Univ. of Singapore |

**ThC2**

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Wu, Ping Zhejiang Univ.  
Song, Zhihuan Zhejiang Univ. |  
Tran Thuan Hoang, Hoang Vietnamese Inst. of Science and Tech. Hanoi  
Nguyen Van Tinh, Tinh Vietnamese Acad. of Science and Tech. Hanoi |
| 14:10-14:30  | ThC2.2    | Trajectory Tracking Control of a Mobile Robot by Computed Torque Method with On-Line Learning Neural Network | Tran Thuan Hoang, Hoang Vietnamese Inst. of Science and Tech. Hanoi  
Nguyen Van Tinh, Tinh Vietnamese Acad. of Science and Tech. Hanoi |
| 14:30-14:50  | ThC2.3    | Fuzzy Grey Sliding Mode Control for Maximum Power Point Tracking of Photovoltaic Systems | Hong, Guo-Wei National Chi Nan Univ.  
Lum, Kai-Yew National Chi Nan Univ.  
Lin, Jung-Shan National Chi Nan Univ. |
| 14:30-15:10  | ThC2.4    | Identification of First-Order Hammerstein Systems and Its Application to a Simple Neural Mass Model for Parkinson’s Disease Treatment | Jimenez Pantoja, Naybi Itzel National Univ. of Mexico  
Tang, Yu National Univ. of Mexico |

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Chen, Jun Harbin Inst. of Tech. Weihai |
| 14:10-14:30  | ThC3.2    | Dynamics Modeling and Control System Design for the Reentry Warhead Controlled by Single Moving Mass (I) | Gao, Changsheng Harbin Inst. of Tech.  
Wei, Pengxin Harbin Inst. of Tech.  
Jing, Wuxing Harbin Inst. of Tech. |
| 14:30-14:50  | ThC3.3    | Planner Test and Analyzing System for Deep Space Mission (I)         | Zhao, Fanyu BIT  
Cui, Pingyuan Beijing Inst. of Tech.  
Xu, Rui Beijing Inst. of Tech.  
Peng, Ting BIT  
Chen, Daxiang BIT  
Zhu, Shengying BIT  
Xu, Rui Beijing Inst. of Tech.  
Wang, Huan BIT  
Hu, Haijing BIT |
| 14:50-15:10  | ThC3.4    | Research of Multidisciplinary Inter-Satellite Communication System Simulation (I) | Wu, Guoqiang Dalian Univ. of Tech.  
Wu, Zhigang Dalian Univ. of Tech.  
Wu, Shunang Dalian Univ. of Tech. |
| 15:10-15:30  | ThC3.5    | Fast Matching of Feature Point and Relative Motion Estimation for Asteroid Landing Phase (I) | Zhu, Shengying BIT  
Xu, Rui Beijing Inst. of Tech.  
Wang, Huan BIT  
Hu, Haijing BIT |

**Plum Blossom**

**Mechanical Model of Hollow-External-Screw Drill Rod for Lunar Soil Particle Vertical Conveying (I)**

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**Mechanical Model of Hollow-External-Screw Drill Rod for Lunar Soil Particle Vertical Conveying (I)**

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Wu, Zhigang Dalian Univ. of Tech.  
Wu, Shunang Dalian Univ. of Tech. |
| 15:10-15:30  | ThC3.4    | Fast Matching of Feature Point and Relative Motion Estimation for Asteroid Landing Phase (I) | Zhu, Shengying BIT  
Xu, Rui Beijing Inst. of Tech.  
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Hu, Haijing BIT |

**Plum Blossom**

**Mechanical Model of Hollow-External-Screw Drill Rod for Lunar Soil Particle Vertical Conveying (I)**

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Peng, Ting BIT  
Chen, Daxiang BIT  
Zhu, Shengying BIT  
Xu, Rui Beijing Inst. of Tech.  
Wang, Huan BIT  
Hu, Haijing BIT |
| 14:50-15:10  | ThC3.7    | Research of Multidisciplinary Inter-Satellite Communication System Simulation (I) | Wu, Guoqiang Dalian Univ. of Tech.  
Wu, Zhigang Dalian Univ. of Tech.  
Wu, Shunang Dalian Univ. of Tech. |
| 15:10-15:30  | ThC3.8    | Fast Matching of Feature Point and Relative Motion Estimation for Asteroid Landing Phase (I) | Zhu, Shengying BIT  
Xu, Rui Beijing Inst. of Tech.  
Wang, Huan BIT  
Hu, Haijing BIT |
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He, Ying USTC
Shao, Hongwei USTC
Mizeva, Irina Inst. of Continuous Media Mechanics

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Xu, Shen-Xin Shanghai Univ.
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Identification of Differential Proteins in Pharyngeal Airway Surface Liquid of the Patients Associated with Obstructive Sleep Apnea Syndrome by Proteome Analysis (I), pp. 1260-1263.

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Gao, Lu Jiangsu Univ.
Zong, Jing the Affiliated Hospital of Jiansu Univ.
Huang, Yuanbo the 4th Affiliated hospital of Jiangsu Univ.

Construction of GLI1 ShRNA Expression Vector and Effects on the Proliferation of Ovarian Cancer Cells (I), pp. 1264-1268.

Wang, Li-Xia Dalian Medical Univ.
Mao, Jun Dalian Medical Univ.
Li, Rongkuan Dalian Medical Univ.
Tao, Yajun Dalian Medical Univ.
Mou, Qiuju Dalian Medical Univ.
Li, Lianhong Dalian Medical Univ.

Relationship between Gastric Dysmotility and Severity of Dyspeptic Symptoms in Patients with Functional Dyspepsia (I), pp. 1269-1273.

Tang, Hai-Ying The 1st Affiliated Hospital of Dalian Medical Univ. Dalian
Wang, Ying-De The 1st Affiliated Hospital of Dalian Medical Univ.
Zhang, Yan-Jun The 1st Affiliated Hospital of Dalian Medical Univ. Dalian
Xie, Jing-Hui The 1st Affiliated Hospital of Dalian Medical Univ. Dalian

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Bao, Zhejing Zhejiang Univ.
Yan, Wenjun Zhejiang Univ.

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Ye, Xudong Zhejiang Univ.


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Chen, Jinhao Sun Yat-sen Univ.
Liu, Jinrong Sun Yat-sen Univ.
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Hou, Shixi Hohai Univ.
Fei, Juntao Hohai Univ.
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Yu, Xinghuo RMIT Univ.
Alahakoon, Damminda Monash Univ.
Fei, Shumin Southeast Univ.
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Zhang, Yunong Sun Yat-Sen Univ.
Guo, Dongsheng Sun Yat-Sen Univ.
Li, Fen Sun Yat-sen Univ.
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Chang, Wen-Jer National Taiwan Ocean Univ.
Chang, Yao-Chung National Taiwan Ocean Univ.

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Co-Chair: Yang, Qinmin Zhejiang Univ.
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Li, Li Shandong Electric Power Res. Inst.
Li, Beidou Shandong luneng Intelligence Tech. Co., Ltd.
Li, Yibin Shandong Univ.
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Xie, Quanquin Chinese Acad. of Sciences
Liang, Guoyuan Shenzhen Inst. of Advanced Tech.
Tang, Cheng Shenzhen Inst. of Advanced Tech.
Wu, Xinyu Shenzhen Inst. of Advanced Tech.
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A Lane Departure Warning System Based on the Integration of the Optical Flow and Hough Transform Methods, pp. 1352-1357.
Taube, Gregory Univ. of Minnesota Duluth
Yang, Jiann-Shiou Univ. of Minnesota Duluth
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Liu, Ding Xi' an Univ. of Tech.
Zhao, Yue Xi' an Univ. of Tech.
Jiao, Shang-Bin Xi' an Univ. of Tech.

A Special Detector for the Edge Adaptive Image Steganography Based on LSB Matching Revisited, pp. 1363-1366.
Zhang, Tao Zhengzhou Information Science and Tech. Inst.
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Deng, Yi Zhejiang Univ.
Yang, Qinmin Zhejiang Univ.
Lu, Jiangang Zhejiang Univ.
Liu, Ning Zhejiang Univ.
Sun, Youxian Zhejiang Univ.
13:30-15:30 ThCP4
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Chair: Liu, Zhitao Zhejiang Univ.
Co-Chair: Qin, Huabiao South China Univ. of Tech.
13:30-15:30 ThCP4.1
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Yu, Cong South China Univ. of Tech.
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Yang, Yiping Shanghai Jiao Tong Univ.
Lai, Chuan Shanghai Jiao Tong Univ.
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Ma, Jian Beijing Univ. of Posts and Telecommunications
Cheng, Long Beijing Univ. of Posts and Telecommunications
Xu, Pengmin Qingdao Agricultural Univ.
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The Analysis of Single Region Failure for Linear Wireless Sensor Networks with Energy Balance Deployment Strategy, N/A
Wang, Zhengjie Shandong Univ. of Science and Tech.
Zhao, Xiaoguang Chinese Acad. of Sciences
Qian, Xu China Univ. of Mining & Tech.
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Tian, Yin Zhejiang Univ.
Zhang, Hui Zhejiang Univ.

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VIP Room
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Chair: Wang, Fei National Univ. of Singapore
Co-Chair: Xiong, Rong Zhejiang Univ.
13:30-15:30 ThCP5.1

13:30-15:30 ThCP5.1

An, Yatong Zhejiang Univ.
Xu, Chao Zhejiang Univ.
Lin, Qun Curtin Univ.
Loxton, Ryan Curtin Univ.
Teo, Kok Lay Curtin Univ. of Tech.

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Xiong, Rong Zhejiang Univ.
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Jia, Juan Shandong Electric Power Res. Inst.
Chi, Xiaoming Shandong Electric Power Res. Inst.

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Cao, Lei Shandong Electric Power Res. Inst.

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Hao, Yue Nanjing Univ. of Posts and Telecommunications
Liang, Zhiwei Nanjing Univ. of Posts and Telecommunications
Liu, Junya Nanjing Univ. of Posts and Telecommunications
Zhao, Hecheng Nanjing Univ. of Posts and Telecommunications

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Fan, Jian Southeast Univ.
Yan, Xue Southeast Univ.
Luo, Xiang Southeast Univ.

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Wang, Zhengzi National Univ. of Defence Tech.
Wang, Zhengzi National Univ. of Defence Tech.
### Technical Program for Friday June 14, 2013

#### FrA1

**Fault Detection (Regular Session)**

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<td>Karimpanal George, National Univ. of Singapore Thommen Gadhia, Harit Maganlal National Univ. of Singapore Sukumar, Ruben National Univ. of Singapore Cabibihan, John-John NUS</td>
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Grano, Antonio
UNICAL-DIMES
Muraca, Pietro
Univ. della Calabria
Pugliese, Paolo
Univ. della Calabria

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Shanghai Jiao Tong Univ.
Co-Chair: Yang, Zaiyue
Zhejiang Univ.
Organizer: Hu, Guoqiang
Nanyang Tech. Univ.
Organizer: Yang, Bo
Shanghai Jiao Tong Univ.
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Zhejiang Univ.

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Xiong, Yan
Department of Automation, Shanghai Jiao Tong Univ.

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Chair: Milne, Bartholomew
James Estall
Univ. of Canterbury
Co-Chair: Ravn, Ole
Tech. Univ. of Denmark

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Tech. University of Denmark
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Iran Univ. of Science

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Univ. of Canterbury
Chen, Xiaoli
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Hann, Christopher Eric
Univ. of Canterbury

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Istituto Italiano di Tecnologia
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<td>Okayama Prefectural Univ., Okayama</td>
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**FrC1**

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| Liu, Kai | Tsinghua Univ. |
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| Yan, Han | Univ. of Science and Tech. of China |
| Ji, Haibo | Univ. of Science and Tech. of China |

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| Al-Mamun, Abdullah | National Univ. of Singapore |
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| Shahsavari, Behrooz | Univ. of California, Berkeley |
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Plum Blossom

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| Sch. Wee-Seng | National Univ. of Singapore |

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Geng, Qingbo Beijing Inst. of Tech.

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Li, Tao            Chinese Acad. of Sciences
Xie, Lihua        Nanyang Tech. Univ.
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