

## IWACIII 2015 Part 2 Program at a Glance

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<b>Oct.23 (Friday)</b>	Registration (13:30 - 18:00 at the Lobby of New Beacon Luguang International HOTEL, 3rd Floor)
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<b>Oct.24 (Saturday)</b>	Conference in Wuhan (Gather at the Entrance of School of Automation at 8:20, 1st Floor)
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8:20 - 8:30	Group Photo (Entrance of School of Automation, 1st Floor)
8:30 - 8:40	Opening Address (Academic Hall, 3rd Floor)
8:40 - 9:40	Plenary Lectures (Academic Hall, 3rd Floor)
9:40 - 10:00	Tea Break (Corridor, 3rd Floor)
10:00 - 12:00	Session 1: Advanced Control (Room 718, 7th Floor)
10:00 - 12:00	Session 2: Control Theory and Applications (Room 316, 3rd Floor)
12:00 - 13:30	Lunch
13:30 - 15:30	Session 3: Intelligent Automation Systems I (Room 718, 7th Floor)
13:30 - 15:30	Session 4: Intelligent Automation Systems II (Room 316, 3rd Floor)
15:30 - 15:50	Tea Break (Corridor, 3rd Floor)
15:50 - 17:50	Session 5: Computational Intelligence and Image Processing (Academic Hall, 3rd Floor)
17:50 - 18:00	Closing Address and Awards (Academic Hall, 3rd Floor)
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<b>Oct.25 (Sunday)</b>	Technical Tour (Gather at the Entrance of New Beacon Luguang International HOTEL at 8:30)

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## Conference Program (October 24, Saturday)

<b>8:20 - 8:30</b>	<b>Group Photo</b>	<b>Entrance of School of Automation, 1st Floor</b>
<b>8:30 - 8:40</b>	<b>Opening Address</b>	<b>Academic Hall, 3rd Floor</b>
<b>Chairperson:</b> Xin CHEN		
8:30 - 8:35	Prof. Haobin Dong (China University of Geosciences)	
8:35 - 8:40	Prof. Kaoru Hirota (JSPS Beijing Office/Beijing Institute of Technology)	
<b>8:40 - 9:40</b>	<b>Plenary Lecture</b>	<b>Academic Hall, 3rd Floor</b>
<b>Chairperson:</b> Xin CHEN		
8:40 - 9:10	P1. Rewinding Chinese History Through Agent-Based Modeling Takao TERANO	
9:10 - 9:40	P2. Stability Analysis and Bifurcation Control for a Wireless Network Model Feng LIU, Xiang YIN, Xinmei WANG, Hua O.WANG	
<b>9:40 - 10:00</b>	<b>Tea Break</b>	<b>Corridor, 3rd Floor</b>
<b>10:00 - 12:00</b>	<b>Session 1: Advanced Control</b>	<b>Room 718, 7th Floor</b>
<b>Chairperson:</b> Yasufumi TAKAMA		
<b>Co-Chairperson:</b> Mingxing FANG		
10:00 - 10:20	S1-1. Estimating Congruity between Quantum Images Abdullah M. ILIYASU, Fei YAN, Kaoru HIROTA	
10:20 - 10:40	S1-2. An Improved Prandtl-Ishlinskii Hysteresis Model for Giant Magnetostrictive Actuator Chanjun FU, Zhuoyun NIE, Songyan CHEN, Ruijuan LIU	
10:40 - 11:00	S1-3. Structural Active Control Based on $H_\infty$ Control Using Equivalent Input Disturbance Method Mingxing FANG, Lijun WU, Jing CHENG, Youwu DU, Jinhua SHE	
11:00 - 11:20	S1-4. Development of Interactive Document Clustering System Based on Coordinated Multiple Views Yasufumi TAKAMA, Takuma TONEGAWA	
11:20 - 11:40	S1-5. Distributed Finite-Time Consensus Control for Second-Order Multi-Agent Systems Under Switching	

Topologies

Fang WANG, Xin CHEN, Yong HE

11:40 - 12:00

S1-6. Guaranteed-Cost Control of Linear Systems Using Output Feedback Based on Equivalent-Input-Disturbance Method

Fang GAO, Min WU, Jinhua SHE, Pan YU

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**10:00 - 12:00**

**Session 2: Control Theory and Applications**

**Room 316, 3rd Floor**

**Chairperson:** Shinichi YOSHIDA

**Co-Chairperson:** Jun PENG

10:00 - 10:20

S2-1. Optimal Operation for Super-Capacitors Storage System Using Piecewise LQR Voltage Equalization Control

Bin CHEN, Zhiwu HUANG, Jun PENG

10:20 - 10:40

S2-2. Research on Cross-Correlative Blur Length Estimation Algorithm in Motion Blur Image

Dongming LI, Zhengbo SU, Guang ZHU, Wei SU, Lijuan ZHANG

10:40 - 11:00

S2-3. Improvement of Convolutional Neural Network Using Extreme Learning Machine as Full-Connected Layers

Tatsuro MATSUO, Shinichi YOSHIDA

11:00 - 11:20

S2-4. Nonlinear Control System Design for Disturbance Rejection Based on Modified Equivalent-Input-Disturbance Approach

Jieqiong LIU, Min WU, Jinhua SHE, Wenjing CAI

11:20 - 11:40

S2-5. Adaptive Nonsingular Terminal Sliding Mode Control of 6-DOF Manipulator with Modified Switch Function

Cong CHENG, Ru LAI

11:40 - 12:00

S2-6. D-PMSG Pitch-Controlled System Based on Fuzzy PID

Huijun YU, Yong HE, Zhengli ZHAO

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**12:00 - 13:30**

**Lunch**

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**13:30 - 15:30**

**Session 3: Intelligent Automation Systems I**

**Room 718, 7th Floor**

**Chairperson:** Lei DING

**Co-Chairperson:** Kazuhiko KAWAMOTO

13:30 - 13:50

S3-1. Novel Complex-Valued Neural Network for Dynamic Complex-Valued Matrix Inversion

Bolin LIAO, Lin XIAO, Jie JIN, Lei DING

13:50 - 14:10

S3-2. A Novel Resource Management Method Using Third Party Broker in Mobile Computing

Yonghua XIONG, Lei LI, Keyuan JIANG, Hong YU

14:10 - 14:30

S3-3. Study on the Optimization of Cell Voltage Based on Neural-Network-Genetic-Algorithm in the Process of Electrolytic Aluminum

Chenhua XU, Zhi LI, Le WANG, Xin YU

14:30 - 14:50

S3-4. An Improvement of Non-Iterative Neural Networks for the Application of High-Dimensional Data

Yu LIN, Shinichi YOSHIDA, Yanchun LIANG

14:50 - 15:10

S3-5. Pedestrian-Movement Prediction by Kriging

Kazuhiko KAWAMOTO, Yoshiyuki TOMURA, Kazushi OKAMOTO

15:10 - 15:30

S3-6. Some Discussion about Artificial Intelligence Science

Yang HU, Xiaohong NIAN

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**13:30 - 15:30**

**Session 4: Intelligent Automation Systems II**

**Room 316, 3rd Floor**

**Chairperson:** Feng LIU

**Co-Chairperson:** Kojin YANO

13:30 - 13:50

S4-1. The Analysis of Modulation Strategies of Two-Stage Matrix Converter

Danyun LI, Quntai SHEN, Zhentao LIU, Fang LIU

13:50 - 14:10

S4-2. Burn-Through Point Model Based on Subspace Method

Yongyue ZHANG, Weihua CAO, Min WU

14:10 - 14:30

S4-3. The Estimation of Image Jacobian Matrix Time-Delay Compensation

Xinmei WANG, Wu WEI, Feng LIU, Longsheng WEI, Yinlong YUAN

14:30 - 14:50

S4-4. Chaotic Identification of the Carbon-Monoxide Utilization Ratio Development Process in the Blast Furnace

Dengfeng XIAO, Jianqi AN, Yong HE, Min WU

14:50 - 15:10

S4-5. Proposing a Transit Oriented Development Model Through Sensitivity Analysis of the Resident's Utility Function

Kojin YANO, Hirobumi HASHIMOTO, Takao TERANO

15:10 - 15:30

S4-6. Implementation of a Flux-Controlled Floating Memristor Emulator

Wei qin ZHAO, Yimin LU, Kai YANG, Chunli LUO

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**15:30 - 15:50**

**Tea Break**

**Corridor, 3rd Floor**

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**15:50 - 17:50**

**Session 5: Computational Intelligence and Image Processing**

**Academic Hall, 3rd Floor**

**Chairperson:** Kazushi OKAMOTO

**Co-Chairperson:** Fei YAN

15:30 - 16:10

S5-1. Perceptual Image Quality Assessment Based on Visual Attention

Longsheng WEI, Wei LIU, Xinmei WANG, Dapeng LUO

16:10 - 16:30

S5-2. Kernel Parameter Evaluation of Convolution Neural Networks for Omnidirectional Images

Kazushi OKAMOTO, Kazuhiko KAWAMOTO

16:30 - 16:50

S5-3. A Linear Least Square with Duffing Chaotic Detection Designed in Micro-Distance Movement Measurement

Xiao LIN, Yaping DAI

16:50 - 17:10

S5-4. An Encryption Strategy for Multi-Channel Quantum Images

Fei YAN, Yiming GUO, Abdullah M. ILIYASU, Phuc Q. LE, Haiyan DING, Zhengang JIANG, Huamin YANG

17:10 - 17:30

S5-5. PSO-SVR Based Resource Demand Prediction in Cloud Computing

Zhengfa ZHU, Jun PENG, Zhuofu ZHOU, Xiaoyong ZHANG, Zhiwu HUANG

17:30 - 17:50

S5-6. Performance Assessment and Retuning of PID Controllers in Time-Varying System

Weihua CAO, Xuemin HU, Min WU, Wei YIN

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**17:50 - 18:00**

**Closing Address and Awards**

**Academic Hall, 3rd Floor**

**Chairperson:** Jinhua SHE

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