2015 International Conference on Control, Automation and Information Sciences (ICCAIS 2015)

Changshu, China
29 – 31 October 2015
Sessions Schedule

Friday, October 30, 2015

PS1: Poster Session 1

Date/Time: Friday, October 30, 10:20 -10:50   Room: Fangta Hall

Chair: Jeonghwan Gwak

Decoupling Active and Passive Hybrid Radial Magnetic Bearing
Shupei Li; Jingyu Wang; Liwei Song; Size Li; Xiaofei Lei

Ground Target Detection in LiDAR Point Clouds Using AdaBoost
Wenguang Zhang

Applying Dynamic Programming to HEV Powertrain Based on EVT
Zetao Ma; Shumei Cui; Shupei Li

A Systematic Framework for Real-time Online Multi-object Tracking
Gyeong-soo Noh; Jeonghwan Gwak; Moongu Jeon

Domain Adaptation Via Support Vector Machine Based on Scatter Difference
Wenhao Ying; Jun Wang; Conghua Xie; Huan Dai; Shengrong Gong

Fine Space Teleoperation Method Based on Multi-information Fusion Perception
Zhong Shi; Xuexiang Huang; Jixiang Cui

Beaconless Dual-channel Real-time Routing Protocol for Wireless Sensor Networks
Chao Huang

Research on Geologic Adaptive Control of Ground Pressure for Single Gripping TBM
Yunyi Rao; Guofang Gong; Xu Yang; Jianjun Zhou

A Linear Active Disturbance Rejection Control Approach for Near Space Vehicle Autopilot
Hui Li

Study on Arc Welding Robot Weld Seam Touch Sensing Location Method for Structural Parts of Hull
Fei Gao; Qinglan Chen; Lanzhong Guo

The Design and Applications for Straightening Exceeded Value of Elevator Guide Rail Based on Neural Network
Wenhao Yuan; Cheng Huang; Shiyun Wu; Zhiliang Xu

Dynamic Output Feedback H-infinity Control of Networked Control System with Independent Time-Delay
Yan Zhou; Yongjian Chen
**FSS1: Finite Set Statistics 1**

**Date/Time:** Friday, October 30, 14:00 -15:40  
**Room:** Menglan Hall  
**Chair:** Benlian Xu

14:00-14:20  
*A Brief Survey of Advances in Random-Set Fusion*  
Ronald P. S. Mahler

14:20-14:40  
*A Dense Clutter Sparse Algorithm for the Random Finite Set Filters*  
Weifeng Liu; Chenglin Wen; Hailong Cui

14:40-15:00  
*Multi-Bernoulli Filter Based Sensor Selection with Limited Sensing Range for Multi-Target Tracking*  
Du Yong Kim; Ma Liang; Moongu Jeon

15:00-15:20  
*Box-Particle CPHD Filter for Multi-Target Tracking*  
Meng Liang

15:20-15:40  
*Iterative-Mapping PHD Filter for Extended Targets Tracking*  
Biao Dai; Cuiyun Li

**IP1: Image Processing 1**

**Date/Time:** Friday, October 30, 14:00 -15:40  
**Room:** Meili Hall  
**Chair:** Reza Hoseinnezhad

14:00-14:20  
*A Simple Real-time Image Cloning Algorithm Based on Modified Mean-Value Coordinates*  
Yehu Shen; Lei Wei; Qiming Xu; Zhenyun Peng; Qicong Wang

14:20-14:40  
*Dynamically Optimizing Face Recognition Using PCA*  
Zhihong Zhao; Beibei Li

14:40-15:00  
*A New Segmentation Method for Connected Characters in CAPTCHA*  
Pengpeng Lu; Liang Shan; Li Jun; Xunwei Liu

15:00-15:20  
*Source Number Estimation Algorithm of FECG Based on SparseBlind Source Separation Analysis*  
Beihai Tan; Jinrong Lin; Qiuming Peng; Weijun Li

15:20-15:40  
*Road Edge Detection Based on Lidar Laser*  
Valentyna Aloshyna

**IC1: Intelligent Control 1**

**Date/Time:** Friday, October 30, 14:00 -15:40  
**Room:** Zhitang Hall  
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14:00-14:20  Research on Degree of Video Completion of Internet Videos with Clustering Algorithms  
   Jiawei He; Anming Wei; Yingyun Yang; Wenhui Dong

14:20-14:40  Sliding Mode Position/Force Control for Constrained Reconfigurable Manipulator Based on Adaptive Neural Network  
   Guogang Wang; Bo Dong; Shuai Wu; Yuanchun Li

14:40-15:00  Improved SVM Method for Internet Traffic Classification Based on Feature Weight Learning  
   Shengnan Hao; Jing Hu; Songyin Liu; Tiecheng Song; Jinghong Guo; Shidong Liu

15:00-15:20  Real Time Road Edges Detection and Road Signs Recognition  
   Viktor Malichenko

15:20-15:40  An Incremental Learning Approach for Restricted Boltzmann Machines  
   Jongmin Yu; Jeonghwan Gwak; Sejeong Lee; Moongu Jeon

PS2: Poster Session 2
Date/Time: Friday, October 30, 15:40 -16:10   Room: Fangta Hall
Chair: Peiyi Zhu

Performance Analysis of a Smart Skin Radar Stealth Device  
   Tang Guangfu; Li Hua; Gan Rongbing

The Method of Detecting Pulmonary Nodules by Snake Model  
   Zhou Kaijun

D-Wave Quantum Computing Ising Model: A Case Study for the Forecasting of Heat Waves  
   Dmytro Zubov; Francesco Volponi; Mahdi Khosravy

Research on Active Control of Axial Flow Fan Noise Using a Novel and Simplified Duct System  
   Wan Li; Zhao Jing

3D Image Scaling of Spinning Target Via Wideband and Narrowband Radar Networking  
   Xiaowei Hu; Ningning Tong; Yongshun Zhang; Yuchen Wang

Research on the Control of Flexible Double Inverted Pendulum System Based on Improved Boundary Layer of Sliding Mode  
   Jue Wang; Mujun Xie; Yuanchun Li; Qichen Jia; Qi Zhang

Theory and Simulation Analysis of FSM Used in Internal Corrosion Monitoring for Oil&Gas Pipeline  
   Jiao Duan; Yu Shan

Road Edge Detection Based on Improved RANSAC and 2D LIDAR Data  
   Xiangdong Wang; Yunfei Cai; Tingmin Shi

Object Recognition Using Depth Information of a Consumer Depth Camera  
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**Date/Time:** Friday, October 30, 16:10 -17:50  
**Room:** Zhitang Hall

**Chair:** Jeonghwan Gwak

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### Saturday, October 31, 2015

**PS3: Poster Session 3**
**Date/Time:** Saturday, October 31, 09:40 -10:20  
**Room:** Fangta Hall

**Chair:** Peiyi Zhu

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