Control, Intelligent Systems, and Robotics

PRESENTATION/ SESSION 1	May 13, 2015, Wednesday
	11:00 AM-1:00 PM
Track 3	E3-06-12

Wang Kangli
A Semi-autonomous Reconfigurable Hybrid UAV with Vertical and Cruise Fying Abilities

Ke Yijie
Modeling Methodology of an Unconventional Aircraft (U-Lion) with Both VTOL and Fixed-wing Capabilities

Zhang Chong
A Novel Multi-Objective Ensemble Prognostic Approach for Remaining Useful Life Estimation

Arrchana Muruganantham
Evolutionary Dynamic Multiobjective Optimization via Kalman Filter Prediction

Ren Ruoxu
An Experimental Study of Correlation between Text and Image Similarity by Information Fusion Approach

PRESENTATION/ SESSION 2	May 13, 2015, Wednesday
	02:00-04:00 PM
Track 3	E3-06-12

Josey Mathew
Kernel-Based SMOTE for SVM Classification of Imbalanced Datasets

Mohammad Ikhsan
Automatic Assessment of Needle Insertion Safety in B-Mode Ultrasound

Sun Lu
State Estimation with Generalized t-Distribution Model

Liu Shuo
Uniform Local Air Flow Control

Yan Hengchao
SMOTE-Based Precognitive Maintenance Framework for Equipment Fault Diagnosis under Imbalanced Condition Monitoring

Control, Intelligent Systems, and Robotics

PRESENTATION/ SESSION 3	May 14, 2015, Thursday
	11:00 AM-1:00 PM
Track 3	**E3-06-12**

Li Xian
Approximate Feedforward Control

Xiao Shengtao
Reinforcement Learning Control for a Robotic Manipulator with Unknown Deadzone

Yip Chun Ming Tommy
Ensuring Zero Steady State Error in Interval Type-2 Fuzzy PI Control System with Non-symmetrical Fuzzy Sets

Chen Wang
Reference Adaptation of Robots in Physical Interactions with Unknown Environments

Mingming Li
Adaptive Tracking Control of Robotic Manipulators under Motion Constraints

Xiaomei Liu
Formation Control of Multi-agents in Constrained Space

PRESENTATION/SESSION 4	May 14, 2015, Thursday
	02:00-04:00 PM
Track 3	**E3-06-12**

Lim Pin
Multimodal Degradation Prognostics Based on Switching Kalman Filter Ensemble

Yan Weili
Multirate Adaptive Feedforward FIR Filter for Suppressing Disturbances to the Nyquist Frequency and Beyond

Hu Bin
Earliest Switch-on of Dual Stage Actuation in Hard Disk Drives

Fangwen Tu
Disturbance Observer Based Control of Free-Flying Space Manipulator with Flexible Links and Joints

Jiang Rui
Time-based Finite-horizon Infrmation Fusion For Ubran Vehicle Localizaition

Control, Intelligent Systems, and Robotics

Chen Wang
Adaptive Optimal Control of Nonlinear Discrete-time Systems with Online System Identification

Du Xinxin
Vision Approach towards Fully Self-Reverse Parking System

Ke Yijie
Conceptual Design Approach for a Morphing Aircraft J-Lion with VTOL and Fixed-Wing Flight Capabilities

Li Xuefang
Iterative Learning Control for a Class of Inhomogeneous Heat Equation

Lim Pin
A Time Window Neural Network Based Framework for Remaining Useful Life Estimation

Yan Hengchao
Gamma Process with Recursive MLE for Wear PDF Prediction in Precognitive Maintenance under Aperiodic Monitoring

Yan Weili
A General Multirate Approach for Direct Closed-loop Identification to the Nyquist Frequency and Beyondn

Goh Sim Kuan
Evolutionary Big Optimization (BigOpt) of Signals

Gee Sen Bong
Application of MOEA/D on Multi-objective Vehicle Routing Problem

Xiao Shengtao
Adaptive Object Learning for Robot Carinet

Zhang Chong
A Data-driven Health State Classification Approach for Failure Diagnosis

Li Xian
A Dynamic Model for Liquid Desiccant Dehumidifier