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Distinguished Keynote Speaker: Professor Kevin Warwick

Keynote Speaker 1: Professor Frank Z. Wang

Keynote Speaker 2: Dr Martin Visser

Keynote Speaker 3: Dr Aspen Olmsted

Keynote Speaker 4: Professor Frank Geels

Keynote Speaker 5: Professor Maryline Chetto

PhD and Doctorate Consortium
(Organiser: Charles A. Shoniregun)

Sessions

Session 1: Industrial Control Systems

Disturbance Observer-Based Predictive Functional Control Using Zero Phase Error Tracking Controller
(Authors: Hiroki Hara, Toshiyuki Satoh, Naoki Saito, Jun-ya Nagase, Norihiko Saga)

Industrial Communication Intrusion Detection Algorithm Based on Improved One-class SVM
(Authors: Wenli Shang, Lin Li, Ming Wan, Peng Zeng)

Disturbance Observer-Based Model Predictive Control Using Time-Varying Constraints
(Authors: Rie Abe, Toshiyuki Satoh, Naoki Saito, Jun-ya Nagase, Norihiko Saga)

Agent-based PKI for Distributed Control System
(Authors: Sergi Blanch-Torné, Fernando Cores, Ramiro Moreno Chiral)

Session 2: Networked Industrial Control Systems

Attack-Tolerant Networked Control System Based on the Deception for the Cyber-Attacks
(Authors: Amer Atta Yaseen, Mireille Bayart)

Frequency-Based Anomaly Detection for the Automotive CAN Bus
(Authors: Adrian Taylor, Nathalie Japkowicz, Sylvain Leblanc)
Evolving Decision Trees to Detect Anomalies in Recurrent ICS Networks  
(Authors: Jasenko Hosic, Jereme Lamps, Derek H. Hart)

Performance Characteristics of An Improved Single Neuron PID Controller using Additional Error of an Inversed Control Signal  
(Authors: Benyamin Kusumoputro, Muhammad Rif’an)

Session 3: Industrial Control Systems and Security

Contextual Merging of Uncertain Information for Better Informed Plan Selection in BDI Systems  
(Authors: Sarah Calderwood, Kevin McAreavey, Weiru Liu, Jun Hong)

Applicability of Domain Based Security Risk Modeling to SCADA Systems  
(Authors: Shireesha Katam, Pavol Zavarsky, Francis Gichohi)

Secure Remote Access to an Industrial Generator with Mobile Devices  
(Authors: Laurens Lemaire, Jan Vossaert, Vincent Naessens)

Security as a Flow Machine  
(Author: Sabah Al-Fedaghi)

Session 4: Advanced Applications

Kalman Filter Based Vision-Servoing Alignment System for Human Ear Surgery  
(Authors: Wenchao Gao, Wenyu Liang, Kok Kiong Tan)

Integration of Fuzzy-QFD and AHP base on A Fuzzy Scale for Mini-CNC Milling Machine Retrofit  
(Author: Vongvit Rattawut)

An Identification Protocol Based on the Twisted Ring-root Extraction Problem  
(Author: Maheswara Rao Valluri)