# The 23rd International Conference on Neural Information Processing | CONTROL | 5





### October 18 (Tuesday)

#### Tuesday AM

TueAM-1 Data Mining and Cybersecurity Workshop 1					
Chair:	Tao Ban,	Paul Pang, Kaizhu Huang			
Room:	International Conference Hall I				
10:20	- 11:00	Invited talk Cyber-security Information Sharing with Data Correlation Koji Nakao <sup>1,2</sup> <sup>1</sup> Distinguished Researcher, Cybersecurity Research Institute National Institute of Information and Communications Technology, <sup>2</sup> Information Security advisor, KDDI			
11:00	- 11:20	Botnet Detection Using Graphical Lasso with Graph Density Chansu Han <sup>1</sup> Kento Kono <sup>1</sup> Shoma Tanaka <sup>1</sup> Masanori Kawakita <sup>1</sup> Jun'ichi Takeuchi <sup>1</sup> <sup>1</sup> Graduate School of ISEE, Kyushu University			
11:20	- 11:40	The Usability of Metadata for Android Application Analysis Takeshi Takahashi <sup>1</sup> , Tao Ban <sup>1</sup> , Chin-Wei Tien <sup>2</sup> , Chih-Hung Lin <sup>2</sup> , Daisuke Inoue <sup>1</sup> , Koji Nakao <sup>1</sup> <sup>1</sup> National Institute of Information and Communications Technology, <sup>2</sup> Institute for Information Industry			
11:40	- 12:00	Preserving Privacy of Agents in Reinforcement Learning for Distributed Cognitive Radio Networks Geong Sen Poh <sup>1</sup> , Kok-Lim Alvin Yau <sup>2</sup> <sup>1</sup> MIMOS Berhad <sup>2</sup> Sunway University			

## The 23rd International Conference on Neural Information Processing 16-21 October 2016 Kyoto, Japan





### Tuesday PM1

TuePM1-1		Data Mining and Cybersecurity Workshop 2		
Chair:	,	Paul Pang,Kaizhu Huang		
Room: International Conference Hall I				
13:00	- 13:40	Invited talk The emerging era of Cognitive Big Data Informatics: Some Case Studies and future Directions Amir Hussain <sup>1,2</sup> <sup>1</sup> Director, Cognitive Big Data Informatics (CogBID) Laboratory, <sup>2</sup> Division of Computing Science and Mathematics, University of Stirling, Stirling FK9 4LA, UK		
13:40	- 14:00	winner presentation		
14:00	- 14:20	Campus Wireless LAN Usage Analysis and Its Applications Kensuke Miyashita <sup>1</sup> , Yuki Maruno <sup>1</sup> <sup>1</sup> Kyoto Women's University		
14:20	- 14:40	MDL Criterion for NMF with Application to Botnet Detection Shoma Tanaka <sup>1</sup> , Yuki Kawamura <sup>2</sup> , Masanori Kawakita <sup>1</sup> , Noboru Murata <sup>3</sup> , Jun'ichi Takeuchi <sup>1</sup> <sup>1</sup> Graduate School of ISEE Kyushu University <sup>2</sup> Nihon Unisys, Ltd. <sup>3</sup> Waseda University		





### Tuesday PM2

TuePM2-1 Data Mining and Cybersecurity Workshop 3 Chair: Tao Ban, Paul Pang, Kaizhu Huang Room: International Conference Hall I				
15:20	- 15:40	A Brief Review of Spin-glass Applications in Unsupervised and Semi-supervised Learning Lei Zhu <sup>1</sup> , Kazushi Ikeda <sup>2</sup> , Paul Pang <sup>1</sup> , Ruibin Zhang <sup>1</sup> , Abdolhossein Sarrafzadeh <sup>1</sup> <sup>1</sup> United Institute of Technology, New Zealand <sup>2</sup> Nara Institute of Science and Technology		
15:40	- 16:00	Learning Latent Features with Infinite Non-negative Binary Matrix Tri-factorization Xi Yang <sup>1</sup> Kaizhu Huang <sup>1</sup> Rui Zhang <sup>1</sup> Amir Hussain <sup>2</sup> <sup>1</sup> Xi'an Jiaotong-Liverpool University <sup>2</sup> University of Stirling		
16:00	- 16:20	A Novel Manifold Regularized Online Semi-Supervised Learning Algorithm Shuguang Ding <sup>1</sup> , Xuanyang Xi <sup>2</sup> , Zhiyong Liu <sup>2</sup> , Hong Qiao <sup>2</sup> , Bo Zhang <sup>3</sup> <sup>1</sup> Institute of Applied Mathematics, AMSS, Chinese Academy of Sciences <sup>2</sup> State Key Lab of Management and Control for Complex Systems, Institute of Automation, Chinese Academy of Sciences <sup>3</sup> LSEC and Institute of Applied Mathematics, AMSS, Chinese Academy of Sciences		
16:20	- 16:40	Learning from Few Samples with Memory Network Shufei Zhang <sup>1</sup> , Kaizhu Huang <sup>1</sup> <sup>1</sup> Xi'an Jiaotong-Liverpool Univ.		
16:40	- 17:00	Generalized Compatible Function Approximation for Policy Gradient Search Yiming Peng <sup>1</sup> , Gang Chen <sup>1</sup> , Mengjie Zhang <sup>1</sup> , Paul Pang <sup>2</sup> <sup>1</sup> Victoria University of Wellington <sup>2</sup> United Institute of Technology, New Zealand		
17:00	- 17:20	A Combo Object Model for Maritime Boat Ramps Traffic Monitoring Paul pang <sup>1</sup> <sup>1</sup> United Institute of Technology, New Zealand		