Draft Program 16/1/08pm

Subject to change. Papers marked * to be confirmed

Monday 21 January 2008

08:30	Registration opens	
09:15	Official opening *Professor Peter Dowd, Executive Dean, Faculty of Engineering, Computing and Mathematical Sciences, University of Adelaide*	
09:30	Keynote: Intelligent Pattern Recognition Application in Biometrics *Patrick Wang, North-Eastern University, Boston, USA*	
10:30	*Morning Tea*	
11:00	Technical Session A1: Electronic Evidence and the Legal System Session Chair: 1. The Adaptability of Electronic Evidence Acquisition Guides for New Technologies *Ben Turnbull (University of South Australia)* 2. Forensics in Cyberspace – the Legal Challenges *Nigel Wilson (Bar Chambers, Adelaide, Australia)* 3. Using a Room Metaphor for E-Forensic Working Environments *Sabine Cikic (Technische Universität Berlin, Germany), Sabina Jeschke (University of Stuttgart, Germany), Fritz Lehmann-Grube (Technische Universität Berlin, Germany), Jan Sablatnig (Technische Universität Berlin, Germany)*	Technical Session B1: Voice and Video Analysis Session Chair: 1. Optical Flow Image Analysis of Facial Expressions of Human Emotion – Forensic Applications *Carmen Duthoit, Tamara Sztynda, Sara Lal, Budi Jap, Johnson Agbinya (University of Technology, Sydney, Australia)* 2. Automatic Voice Activity Detection in Different Speech Applications *Rosa Gonzalez Hautamäki, Pasi Fränti, Marko Tuononen (University of Joensuu, Finland)* 3. Video Motion Detection Beyond Reasonable Doubt *Zhuo Xiao, Amirsaman Poursoltanmohammadi, Matthew Sorell, (University of Adelaide, Australia)*
12:30	*Lunch*	

13:30	Plenary Session: Session Chair: *Peter Ramsey (University of Adelaide, Australia)* 1. Presenting digital evidence in a physical court room. *Jill Slay, University of South Australia* 2. Photographic evidence – the challenges of digital photography as legal evidence *Gale Spring, RMIT University, Australia*	
15:00	*Afternoon Tea*	
15:30	Technical Session A2: Network Forensics Session Chair: *Nigel Wilson (Bar Chambers, Adelaide, Australia)* 1. Methods to identify spammers *Tobias Eggendorfer (Universitat der Bundeswehr München, Germany)* 2. Conducting Forensic Investigations of Cyber Attacks on Automobile In-Vehicle Networks *Dennis Nilsson, Ulf Larson (Chalmers University of Technology, Sweden)* 3. Wireless Network Security : Comparison of WEP (Wired Equivalent Privacy) Mechanism, WPA (Wi-Fi Protected Access) and RSN (Robust Security Network) Security Protocols. *Halil Ibrahim Bulbul, Ihsan Batmaz, Mesut Ozel (Gazi University, Turkey)*	Technical Session B2: Voice and Video Networking Session Chair: *Svein Yngvar Willasen (Norwegian University of Science and Technology)* 1. Searching in Space and Time: A system for forensic analysis of large video repositories *Anton van den Hengel, Rhys Hill, Anthony Dick, Henry Detmold (University of Adelaide, Australia)* 2. Voice over IP Forensics *Matthew Simon, Jill Slay (University of South Australia)* 3. Hiding Skype VoIP Calls from Parametric Identification *Mauro Migliardi (University of Padua, Italy), Roberto Podesta' (University of Genoa, Italy), Matteo Tebaldi (University of Padua, Italy), Massimo Maresca (University of Padua, Italy)*
17:00	*Close*	
18:00	Conference Banquet – National Wine Centre 3 course dinner and a selection of fine Australian wines	

Tuesday 22 January 2008

08:30	Venue opens	
09:00	Plenary presentation The Role of E Forensics in the Developing Information Revolution Age *Richard Leary, Forensic Pathways Ltd*	
09:45	Panel Discussion Contemporary research priorities in e-Forensics *Patrick Wang, Gale Spring, Jill Slay, Richard Leary, Nigel Wilson* Chair: *Matthew Sorell*	
10:30	*Morning Tea*	
11:00	Technical Session A3: Evidence Tracing Session Chair: 1. Cheat-Prevention and -Analysis in Online Virtual Worlds *Sabine Cikic (Technische Universität Berlin, Germany), Sven Grottke (University of Stuttgart, Germany), Fritz Lehmann-Grube (Technische Universität Berlin, Germany), Jan Sablatnig (Technische Universität Berlin, Germany)* 2. The Design of Framework for Detecting an Insider's Leak of Confidential Information *Eunju Baek, Yeog Kim, Jinwon Sung, Sangjin Lee (Korea University, Seoul)* 3. Timestamp evidence correlation by model based clock hypothesis testing *Svein Yngvar Willassen (Norwegian University of Science and Technology)*	Technical Session B3: JPEG Image Analysis Session Chair: *Gale Spring (RMIT University, Australia)* 1. Advanced JPEG Carving *Michael Cohen (Australian Federal Police)* 2. Image Tampering Detection Using Bayer Interpolation and JPEG Compression *Marie-Charlotte Poilpre (ISBS Paris, France), Patrick Perrot (I.R.C.G.N., France), TALBOT Hugues (ESIEE Paris, France)* 3. Conditions for Effective Detection and Identification of Primary Quantization of Re-Quantized JPEG Images *Matthew Sorell (University of Adelaide, Australia)*
12:30	*Lunch*	
13:30	Technical Session A4: Digital Memory Recovery Session Chair: *Jill Slay (University of South Australia)* 1. Recovering data from USB Flash memory sticks that have been damaged or electronically erased *Braden Phillips, Cain Schmidt, Dan Kelly (University of Adelaide, Australia)*	Technical Session B4: Watermarking Session Chair: 1. SVD-Based Watermark with Quasi-One-Way Operation by Reducing a Singular Value Matrix Rank *Kazuo Ohzeki (Shibaura Institute of Technology, Japan), Masaru Sakurai (Nagoya Institute of Technology, Japan)*

	2. Recovery of Circumstantial Digital Evidence Leading to an Anton Piller Order: A Case Study *Roland MacKenzie, Matthew Sorell (University of Adelaide, Australia)*	2. Analysis of a Zero Location based Authentication Scheme for Biomedical Images *Antionette Goh, M.L. Dennis Wong (Swinburne University of Technology, Malaysia), Raphael C.-W. Phan (EPFL, Switzerland)* 3. A New RST-Invariant Watermarking Scheme Based on Texture Features *Shipu Zheng, Yuesheng Zhu, Xing Wang (Peking University, Shenzhen, China.)* 4. Reversible And Blind Database Watermarking Using Difference Expansion *Gaurav Gupta, Josef Pieprzyk (Macquarie University, Australia)*
15:00	*Afternoon Tea*	
15:30	Technical Session A5: Forensic Sensing Technologies *Papers submitted to the International Workshop on Forensic Sensing Technologies* Session Chair: *Jadranka Sunde (DSTO, Australia)* 1. Explosive Blast Effects on Latent Fingerprints *Valerian Kuznetsov, Jadranka Sunde (DSTO, Australia), Michael Thomas (South Australian Police)* 2. DatatraceDNA® – A Novel Authentic Technology for Forensic Detections and Identifications *Xinshi Luo (DatatraceDNA Pty Ltd; CSIRO Molecular and Health Technologies, Australia), Sivakumar Balakrishnan, Peter Osvath, Gerry Swiegers (CSIRO, Australia)* 3. Luminescence Analysis for Radiological and Nuclear Forensic Application *Nigel Spooner, Barnaby Smith (DSTO, Australia)*	Technical Session B5: Posters and Technology Demonstrators Session Chair: *Matthew Sorell (University of Adelaide, Australia)* 1. Document Forensics based on Steganographic Anti-Counterfeiting Markings and Mobile Architectures *Fokko Beekhof, Sviatoslav Voloshynovskiy, Oleksiy Koval, Renato Villan, Emre Topak (University of Geneva, Switzerland)* 2. FORWEB: File Fingerprinting for Automated Network Forensics Investigations *John Haggerty, David Llewellyn-Jones, Mark Taylor (Liverpool John Moores University)* 3. Forensics for Korean Cell Phone *Keonwoo Kim, Dowon Hong, Kyoil Chung (ETRI, Korea)* 4. High Speed Search for Large-Scale Digital Forensic Investigation *Hyungkeun Jee, Jooyoung Lee, Dowon Hong (ETRI, Korea)* 5. Suspects' Data hiding at remaining registry values of uninstalled programs *Youngsoo Kim, Sangsu Lee, Dowon Hong (ETRI, Korea)* 6. Abduction and Legal Reasoning *Giada Maggenti (University of Pavia, Italy), Andrea Bracciali*

		(University of Pisa, Italy), Paolo Mancarella (University of Pisa, Italy) Technology Demonstration *Richard Leary, Forensic Pathways*
17:00	*Close*	

Wednesday 23 January 2008

08:30	Venue opens
09:00	Tutorial: Intelligent Pattern Recognition and Biometrics *Patrick Wang (Northeastern University, Boston MA, USA)* Part 1
10:30	*Morning Tea*
11:00	Tutorial: Intelligent Pattern Recognition and Biometrics *Patrick Wang (Northeastern University, Boston MA, USA)* Part 2
12:30	*Lunch*
13:30	International Workshop on Knowledge Discovery and Data Mining (WKDD 2008) WKDD1 Workshop Chair: *Qihai Zhou (Southwestern University of Finance and Economics, Chengdu, China)* 1. Cooperation Forensic Computing Research *Youdong Zhang (Huaiyin Institute of Technology, China)* 2. Effective Pruning Strategies for Sequential Pattern Mining *Xu Yusheng, Ma Zhixin, Li Lian (Lanzhou University, China)* 3. Association Rule Analysis of Spatial Data Mining Based on Matlab — A Case of Ancheng Township in China *Xinqi Zheng, Lu Zhao (China University of Geosciences, China)* 4. A New Method -- Multi-factor Trend Regression and Its Application to Economy Forecast in Jiangxi *Ding Yuechao (Jimei University, China)* Poster Session (see below for titles)
15:15	*Afternoon Tea*
15:30	International Workshop on Knowledge Discovery and Data Mining (WKDD 2008) WKDD2 Workshop Chair: *Qihai Zhou (Southwestern University of Finance and Economics, Chengdu, China)* 1. A New Algorithm for Finding Convex Hull with a Maximum Pitch of the Dynamical Base Line *Qihai Zhou (Southwestern University of Finance and Economics, Chengdu, China)* 2. A Fast and Optimal Method Based on Fuzzy Neural Networks for SINS Initial Alignment *Xu bo, Sun feng, Yufei, Liu Fuqiang (Harbin Engineering University, China))* 3. Research on active defense strategy of counter DDoS attacks based on Differential Games Model *Rui guo, Guiran chang , Yuhai qin , Baojing sun , Yifu Feng , Dan peng (Northeastern University, China)*

	4. Research of a Virtual 3D Study Pattern Based on Constructive Theory in e-Learning *Duan Xinyu, Gu Baoqing (Anyang Normal University, China)* 5. The Design of an Effective Marine Inertial Navigation System Scheme *Cheng Jian-hua， Zou Ji-bin, WU Lei, Hao Yan-ling, Gan Shuai (Harbin Institute of Technology, China)* 6. Application of tetrahedral mesh model based on neural network in solid mineral reserve estimation *Junfang Gong, Xincai Wu, Xiuguo Liu, Shengwen Li (China University of Geosciences, China)*
17:00	*Close*

WKDD Poster Session (up to 64 papers)

1. A Customer Satisfaction Degree Evaluation Model Based on Support Vector Machine, *Hua Zhiwu, Wang Ting*
2. A Fast Three-dimensional Multilevel Algorithm for Drawing Large General Graphs, *Huang Jingwei, Zhou Weihua*
3. A new alignment algorithm to identify definitions corresponding to abbreviations in biomedical text, *Yu Xue, Yun Xu, YuZhong Zhao, ZhiHao Wang*
4. A new cloud detection algorithm for FY-2C images over China, *Daxiang Xiang, Deren Li, Liangming Liu, Xinyi Dong*
5. A PSO-based Clustering Algorithm for Manufacturing Cell Design, *Luiz Airton Consalter, Nibaldo Rodriguez, Orlando Durán*
6. A Remote Sensing Image Fusion Algorithm Based on Ordinal Fast Independent Component Analysis, *Libao Zhang, Xianchuan Yu, Zhongni Wang*
7. An Empirical Research of Multi-Classifier Fusion Methods and Diversity Measure in Remote Sensing Classification, *Hongchao Ma, Honggen Xu, Wei Zhou, Xinyi Dong*
8. An Empirical Study on Improving the Manufacturing Informatization Index System of China, *Jia Wang, Ke Chen, Wei Guo*
9. An Enhanced ART2 Neural Network for Clustering Analysis, *Dezhao Chen, Jianhong Luo*
10. An Integrated Approach to Recognition of Lane Marking and Road Boundary, *Tao Liu, Weina Lu, Yucai Zheng, YuQuan Ma*
11. CBERS-02 remote sensing data mining using decision tree algorithm, *Guangdao Hu, Xiaofeng Yang, Xingping Wen*
12. Centrality Research on the Traditional Chinese Medicine Network, *Gao Lixin, Liu Jianming, Zhang Dezheng, Zhang Huansheng*
13. Cloud Model-based Data Attributes Reduction for Clustering, *LIN Pei-guang, NIE Pei-yao, XU Ru-zhi*
14. Coupling Analysis of Regional Economic Structure System, *ZHANG Yi-xin*
15. Grasping Related Words of Unknown Word for Automatic Extension of Lexical Dictionary, *Junho Choi, Myunggwon Hwang, Pankoo Kim, Sunkyoung Baek*
16. Improvement of the Drought Monitoring Model Based on the Cloud Parameters Method and Remote Sensing Data, *Daxiang Xiang, Liangming Liu, Xinyi Dong, Zheng Zhou*
17. Knowledge Management in the Ubiquitous Software Development, *José Miguel Rubio L.*
18. Marketing Audit Value Model Based on Rough Set and Support Vector Regression Machine, *AO San, CHE Cheng, TANG Shoulian*
19. Multi-unit E-auction Model Based on Loss Aversion, *Chunsheng Zhang, Guoqiang Xiong*
20. Ontology-based Research on Wind Power Plant Information Interaction, *Dong-ling Cheng, Xin-ying Wang, Yong-li Zhu*
21. Process Knowledge verification Method Based on Petri Net, *Gao Li-xin, Liu Jian-ming, Wang Daliang, Zhang De-zheng, Zhang Huan-sheng*

22. R2P: A Peer-to-Peer Transfer System Based on Role and Reputation, *Guanghua Song, Yao Zheng, Yingjie Xia*
23. Research and Application on Process Planning Knowledge Discovery Technology in Discrete Mechanical Manufacturing Enterprise, *Xiaoliang Jia, Xitian Tian, Zhenming Zhang*
24. Research of Metadata Extracting Algorithm for Components Based on Rules in the Semantic Web, *DaXin Liu, HongBin Wang, Wei Sun*
25. Research on Evaluation of E-Commerce WebSites Based on linguistic ordered weighted averaging Operator, *Peide Liu, Ruishan Hu*
26. Semi-supervised Semantic Role Labeling system for Chinese, *Jie Cai, TaoZheng Zhang, XiaoJie Wang, Yixin Zhong*
27. Study on the Application of SVM in Supplier Primary Election, *CAI Lili, SONG Fugeng, YUAN Deling*
28. Study on the Knowledge Visualization and Creation Supported Kmap Platform, *He Xinyan, Wang Zhiguo, Xie Jiancang, Zhang Yongjin*
29. The BP Neural Network Optimizing Design Model for Agricultural Information Measurement Based on Multistage Dynamic Fuzzy Evaluation, *Zhibin Liu, Li Bai*
30. The Data Mining Technology Based on CIMS and Its Application on Automotive Remanufacturing*, *Jia Wang, Ke Chen*
31. The Development and Application of Chinese Intelligent Question Answering System Based on J2EE Technology, *Bing Zhang, Shou-ning Qu*
32. The Method Engineering Process for Multi-agent System Development, *Xue Xiao, Zeng Zhifeng, Zhang XueYan*
33. Towards Self-tuning of Dynamic Resources for Workloads, *Fu Duan, Yongjie Han*
34. An Ergonomic Study of the Efficiency of the Mobile Shortcuts and Page-Turning Keys in Chinese Users, *Xuemin Zhang, Bin Yang, Wen Shan, Qin Xu, Jianci Zhai (Beijing Key Lab of Applied Experiment Psychology, China)*
35. Reading Efficiency of Chinese Text Scrolling Style and Presentation Style on Computer Interface, *Xue-min Zhang, Heng-sheng Zhang, Yang Bin, Di-fan Zhang (Beijing Key Lab of Applied Experiment Psychology, China)*
36. Research on Electronic Commerce KMS Based on Agent and Ontology, *Ruixue Fu*