

01100010
 11001001
 0010100110



e-Forensics 2008

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

13:30	Plenary Session: Session Chair: <i>Peter Ramsey (University of Adelaide, Australia)</i> 1. Presenting digital evidence in a physical court room. <i>Jill Slay, University of South Australia</i> 2. Photographic evidence – the challenges of digital photography as legal evidence <i>Gale Spring, RMIT University, Australia</i>	
15:00	<i>Afternoon Tea</i>	
15:30	Technical Session A2: Network Forensics Session Chair: <i>Nigel Wilson (Bar Chambers, Adelaide, Australia)</i> 1. Methods to identify spammers <i>Tobias Eggendorfer (Universitat der Bundeswehr München, Germany)</i> 2. Conducting Forensic Investigations of Cyber Attacks on Automobile In-Vehicle Networks <i>Dennis Nilsson, Ulf Larson (Chalmers University of Technology, Sweden)</i> 3. Wireless Network Security : Comparison of WEP (Wired Equivalent Privacy) Mechanism, WPA (Wi-Fi Protected Access) and RSN (Robust Security Network) Security Protocols. <i>Halil Ibrahim Bulbul, Ihsan Batmaz, Mesut Ozel (Gazi University, Turkey)</i>	Technical Session B2: Voice and Video Networking Session Chair: <i>Svein Yngvar Willasen (Norwegian University of Science and Technology)</i> 1. Searching in Space and Time: A system for forensic analysis of large video repositories <i>Anton van den Hengel, Rhys Hill, Anthony Dick, Henry Detmold (University of Adelaide, Australia)</i> 2. Voice over IP Forensics <i>Matthew Simon, Jill Slay (University of South Australia)</i> 3. Hiding Skype VoIP Calls from Parametric Identification <i>Mauro Migliardi (University of Padua, Italy), Roberto Podesta' (University of Genoa, Italy), Matteo Tebaldi (University of Padua, Italy), Massimo Maresca (University of Padua, Italy)</i>
17:00	<i>Close</i>	
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 <i>Richard Leary, Forensic Pathways Ltd</i>	
09:45	Panel Discussion Contemporary research priorities in e-Forensics <i>Patrick Wang, Gale Spring, Jill Slay, Richard Leary, Nigel Wilson</i> Chair: <i>Matthew Sorell</i>	
10:30	<i>Morning Tea</i>	
11:00	<p>Technical Session A3: Evidence Tracing Session Chair:</p> <ol style="list-style-type: none"> Cheat-Prevention and -Analysis in Online Virtual Worlds <i>Sabine Cिकिक (Technische Universität Berlin, Germany), Sven Grottke (University of Stuttgart, Germany), Fritz Lehmann-Grube (Technische Universität Berlin, Germany), Jan Sablatnig (Technische Universität Berlin, Germany)</i> The Design of Framework for Detecting an Insider's Leak of Confidential Information <i>Eunju Baek, Yeog Kim, Jinwon Sung, Sangjin Lee (Korea University, Seoul)</i> Timestamp evidence correlation by model based clock hypothesis testing <i>Svein Yngvar Willassen (Norwegian University of Science and Technology)</i> 	<p>Technical Session B3: JPEG Image Analysis Session Chair: <i>Gale Spring (RMIT University, Australia)</i></p> <ol style="list-style-type: none"> Advanced JPEG Carving <i>Michael Cohen (Australian Federal Police)</i> Image Tampering Detection Using Bayer Interpolation and JPEG Compression <i>Marie-Charlotte Poilpre (ISBS Paris, France), Patrick Perrot (I.R.C.G.N., France), TALBOT Hugues (ESIEE Paris, France)</i> Conditions for Effective Detection and Identification of Primary Quantization of Re-Quantized JPEG Images <i>Matthew Sorell (University of Adelaide, Australia)</i>
12:30	<i>Lunch</i>	
13:30	<p>Technical Session A4: Digital Memory Recovery Session Chair: <i>Jill Slay (University of South Australia)</i></p> <ol style="list-style-type: none"> Recovering data from USB Flash memory sticks that have been damaged or electronically erased <i>Braden Phillips, Cain Schmidt, Dan Kelly (University of Adelaide, Australia)</i> 	<p>Technical Session B4: Watermarking Session Chair:</p> <ol style="list-style-type: none"> SVD-Based Watermark with Quasi-One-Way Operation by Reducing a Singular Value Matrix Rank <i>Kazuo Ohzeki (Shibaura Institute of Technology, Japan), Masaru Sakurai (Nagoya Institute of Technology, Japan)</i>

	<p>2. Recovery of Circumstantial Digital Evidence Leading to an Anton Piller Order: A Case Study <i>Roland MacKenzie, Matthew Sorell (University of Adelaide, Australia)</i></p>	<p>2. Analysis of a Zero Location based Authentication Scheme for Biomedical Images <i>Antionette Goh, M.L. Dennis Wong (Swinburne University of Technology, Malaysia), Raphael C.-W. Phan (EPFL, Switzerland)</i></p> <p>3. A New RST-Invariant Watermarking Scheme Based on Texture Features <i>Shipu Zheng, Yuesheng Zhu, Xing Wang (Peking University, Shenzhen, China.)</i></p> <p>4. Reversible And Blind Database Watermarking Using Difference Expansion <i>Gaurav Gupta, Josef Pieprzyk (Macquarie University, Australia)</i></p>
15:00	<i>Afternoon Tea</i>	
15:30	<p>Technical Session A5: Forensic Sensing Technologies <i>Papers submitted to the International Workshop on Forensic Sensing Technologies</i> Session Chair: <i>Jadranka Sunde (DSTO, Australia)</i></p> <ol style="list-style-type: none"> 1. Explosive Blast Effects on Latent Fingerprints <i>Valerian Kuznetsov, Jadranka Sunde (DSTO, Australia), Michael Thomas (South Australian Police)</i> 2. DatatraceDNA® – A Novel Authentic Technology for Forensic Detections and Identifications <i>Xinshi Luo (DatatraceDNA Pty Ltd; CSIRO Molecular and Health Technologies, Australia), Sivakumar Balakrishnan, Peter Osvath, Gerry Swiegers (CSIRO, Australia)</i> 3. Luminescence Analysis for Radiological and Nuclear Forensic Application <i>Nigel Spooner, Barnaby Smith (DSTO, Australia)</i> 	<p>Technical Session B5: Posters and Technology Demonstrators Session Chair: <i>Matthew Sorell (University of Adelaide, Australia)</i></p> <ol style="list-style-type: none"> 1. Document Forensics based on Steganographic Anti-Counterfeiting Markings and Mobile Architectures <i>Fokko Beekhof, Sviatoslav Voloshynovskiy, Oleksiy Koval, Renato Villan, Emre Topak (University of Geneva, Switzerland)</i> 2. FORWEB: File Fingerprinting for Automated Network Forensics Investigations <i>John Haggerty, David Llewellyn-Jones, Mark Taylor (Liverpool John Moores University)</i> 3. Forensics for Korean Cell Phone <i>Keonwoo Kim, Dowon Hong, Kyoil Chung (ETRI, Korea)</i> 4. High Speed Search for Large-Scale Digital Forensic Investigation <i>Hyungkeun Jee, Jooyoung Lee, Dowon Hong (ETRI, Korea)</i> 5. Suspects' Data hiding at remaining registry values of uninstalled programs <i>Youngsoo Kim, Sangsu Lee, Dowon Hong (ETRI, Korea)</i> 6. Abduction and Legal Reasoning <i>Giada Maggenti (University of Pavia, Italy), Andrea Bracciali</i>

		<i>(University of Pisa, Italy), Paolo Mancarella (University of Pisa, Italy)</i> Technology Demonstration <i>Richard Leary, Forensic Pathways</i>
17:00	<i>Close</i>	

Wednesday 23 January 2008

08:30	Venue opens
09:00	Tutorial: Intelligent Pattern Recognition and Biometrics <i>Patrick Wang (Northeastern University, Boston MA, USA)</i> Part 1
10:30	<i>Morning Tea</i>
11:00	Tutorial: Intelligent Pattern Recognition and Biometrics <i>Patrick Wang (Northeastern University, Boston MA, USA)</i> Part 2
12:30	<i>Lunch</i>
13:30	International Workshop on Knowledge Discovery and Data Mining (WKDD 2008) WKDD1 Workshop Chair: <i>Qihai Zhou (Southwestern University of Finance and Economics, Chengdu, China)</i> <ol style="list-style-type: none"> 1. Cooperation Forensic Computing Research <i>Youdong Zhang (Huaiyin Institute of Technology, China)</i> 2. Effective Pruning Strategies for Sequential Pattern Mining <i>Xu Yusheng, Ma Zhixin, Li Lian (Lanzhou University, China)</i> 3. Association Rule Analysis of Spatial Data Mining Based on Matlab — A Case of Ancheng Township in China <i>Xinqi Zheng, Lu Zhao (China University of Geosciences, China)</i> 4. A New Method -- Multi-factor Trend Regression and Its Application to Economy Forecast in Jiangxi <i>Ding Yuechao (Jimei University, China)</i> Poster Session (see below for titles)
15:15	<i>Afternoon Tea</i>
15:30	International Workshop on Knowledge Discovery and Data Mining (WKDD 2008) WKDD2 Workshop Chair: <i>Qihai Zhou (Southwestern University of Finance and Economics, Chengdu, China)</i> <ol style="list-style-type: none"> 1. A New Algorithm for Finding Convex Hull with a Maximum Pitch of the Dynamical Base Line <i>Qihai Zhou (Southwestern University of Finance and Economics, Chengdu, China)</i> 2. A Fast and Optimal Method Based on Fuzzy Neural Networks for SINS Initial Alignment <i>Xu bo, Sun feng, Yufei, Liu Fuqiang (Harbin Engineering University, China)</i> 3. Research on active defense strategy of counter DDoS attacks based on Differential Games Model <i>Rui guo, Guiran chang, Yuhai qin, Baojing sun, Yifu Feng, Dan peng (Northeastern University, China)</i>

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

WKDD Poster Session (up to 64 papers)

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

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