

IEEE ISI 2008 Detailed Program

June 18, 2008 (Wednesday)

7:30 - 8:00 AM	Registration
7:45 - 8:00 AM	Welcome and Conference Opening
8:00 - 9:00 AM	Keynote Talk: Countering Terrorism <i>Dr. Jarret Brachman</i>
9:00 - 10:30 AM	Invited Talk: Data Mining for Security Applications: Mining Concept-Drifting Data Streams to Detect Peer to Peer Botnet Traffic <i>Dr. Bhavani Thurasingham</i> Probabilistic Frameworks for Privacy-Aware Data Mining <i>Dr. Joydeep Ghosh</i>
10:30 - 10:45 AM	Break
10:45 AM - 12:15 PM	W1-I Knowledge Discovery and Cyberactivism Analysis of Cyberactivism: A Case Study of Online Free Tibet Activities <i>Tianjun Fu and Hsinchun Chen</i> Developing Ideological Networks using Social Network Analysis and Writeprints: A Case Study of the International Falun Gong Movement <i>Yi-Da Chen, Ahmed Abbasi and Hsinchun Chen</i> Models and methods for prediction problem of evolving graphs <i>Anurat Chapanond and Mukkai Krishnamoorthy</i>
	W1-II CyberSecurity Identity Management Architecture <i>Uwe Glaesser and Mona Vajihollahi</i> Sigtiming Scheme based on Aggregate Signatures <i>Duc-Phong Le, Alexis Bonneau and Alban Gabillon</i> Anonymous Attribute Authentication Scheme Using Self-Blindable Certificates <i>Shinsaku Kiyomoto and Toshiaki Tanaka</i>
	W1-III Industrial Session HP Getting the Fundamentals Right – Ensuring an operational infrastructure <i>John Glenn, Director, Defence & Intelligence Asia Pacific and Japan Hewlett-Packard</i> IBM Smart Surveillance for security and beyond <i>Mr. Aik Meng Seow, Digital Video Surveillance - Asia Pacific Lead Security & Privacy Services, IBM Global Technology Services</i> SolventoSOFT Turning information into actionable intelligence using i2 visualization analysis solutions <i>David Scott, International Channel Manager, i2 Ltd</i>
12:15 - 1:45 PM	Lunch
1:45 - 3:15 PM	W2-1 Knowledge Discovery and Visualization Subverting Prediction in Adversarial Settings <i>J.G. Dutrisac and D.B. Skillicorn</i> Hiding Clusters in Adversarial Settings <i>J.G. Dutrisac and D.B. Skillicorn</i> WikiNetViz: Visualizing Friends and Adversaries in Implicit Social Networks <i>Minh-Tam Le, Hoang-Vu Dang, Ee-Peng Lim and Anwitaman Datta</i>
	W2-II

Terrorism Informatics - Bioterrorism

Bioterrorism Event Detection based on the Markov Switching Model: A Simulated Anthrax Outbreak Study

Hsin-Min Lu, Daniel Zeng and Hsinchun Chen

Simulating Bioterrorism Thru Epidemiology Approximation

Ryan Layfield, Murat Kantarcioglu and Bhavani Thuraisingham

An Integrated Approach to Mapping Worldwide Bioterrorism Research Capabilities

Yan Dang, Yulei Zhang, Nichalin Suakkaphong, Cathy Larson and Hsinchun Chen

W2-III

Intrusion Detection

Unknown Malcode Detection via Text Categorization and the Imbalance Problem

Robert Moskovitch, Dima Stopel, Clint Feher, Nir Nissim and Yuval Elovici

Automated Network Feature Weighting-Based Anomaly Detection

Dat Tran, Wanli Ma and Dharmendra Sharma

A Study on the Feature Selection of Network Traffic for Intrusion Detection Purpose

Wanli Ma, Dat Tran and Dharmendra Sharma

3:15 - 3:30 PM

Break

3:30 - 5:00 PM

W3-I

Web Mining

Analyzing Content Development and Visualizing Social Interactions in Web Forum

Christopher C. Yang and Tobun D. Ng

Link Analysis Based on Webpage Co-occurrence Mining - a Case Study on a Notorious Gang Leader in Taiwan

Yi-Ting Peng and Jau-Hwang Wang

A Study on Early Decision Making in Objectionable Web Content Classification

Lung-Hao Lee, Cheng-Jye Luh and Chih-Jie Yang

W3-II

Emergency Response and Infrastructure Protection

A Game Theory Approach for an Emergency Management Security Advisory System

Yi-Ming Chen, Dachrahn Wu, and Cheng-Kuang Wu

Multiplicatively-Weighted Order-k Minkowski-Metric Voronoi Models for Disaster Decision Support Systems

Ickjai Lee and Christopher Torpelund-Bruin

Keying Material Based Key Pre-distribution Scheme

Zhihong Liu, Jianfeng Ma, Qiping Huang and SangJae Moon

W3-III

Industrial Session

Neotech Photoelectric Inc.

Innovation of CCTV by Neotech

Janine Hsu, Overseas Sales, Neotech Photoelectric Inc.

June 19, 2008 (Thursday)

7:30 - 8:00 AM

Registration

8:00 - 9:00 AM

Keynote Talk:

Cyber Crime and Challenges for Crime Investigation in the Information Era

Dr. Henry C. Lee

9:00 - 10:30 AM

Invited Talk:

Data Mining for Social Network Analysis

Dr. Jaideep Srivastava

Social Computing: Fundamentals and Applications

Dr. Feiyue Wang

10:30 - 10:45 AM

Break

10:45 AM - 12:15 PM

T1-I

Information Privacy and Cybercrime

Information Sharing and Privacy Protection of Terrorist or Criminal Social Networks
Christopher C. Yang
A Framework for Privacy-Preserving Cluster Analysis
Benjamin C. M. Fung, Ke Wang, Lingyu Wang and Mourad Debbabi
Botnets, and the CyberCriminal Underground
Clinton J. Mielke II and Hsinchun Chen

T1-II

Cyber Security

PRM-Based Identity Matching Using Social Context
Jiexun Li, G. Alan Wang and Hsinchun Chen
Efficient and Complete Remote Authentication Scheme with Smart Cards
Wen-Gong Shieh and Wen-Bing Horng
A New On-line Signature Verification by Spatio-Temporal Neural Network
Maryam Moghadam Fard, Mehdi Moghadam Fard and Nasser Mozayani

T1-III

Industrial Session

Thales
End to end security approach
Andrea Berna, Senior Consulting Manager for the Information System Security activities of Thales
Telecom Technology Center
Infocom Security Products Evaluation and Certification
Elizabeth B. Hsu, Director, Telecom Technology Center
Alpha Pricing Co., Ltd.
Network Video Surveillance Over IP Application on Homeland Security
Steve Chen, Vice President, Alpha Pricing Co., Ltd.

12:15 - 1:45 PM

Lunch

1:45 - 3:15 PM

T2-1

Data Processing and Indexing

Constrained K-Closest Pairs Query Processing Based on Growing Window in Crime Databases
Shaojie Qiao, Changjie Tang, Huidong Jin, Shucheng Dai and Xingshu Chen
Distributed Processing of Event Data and Multi-faceted Knowledge in a Collaboration Federation
Stanley Y.W. Su, Howard Beck, Seema Degwekar, Jeff DePree, Xuelian Xiao, Chen Zhou, and Minsoo Lee
A Latent Semantic Indexing and WordNet based Information Retrieval Model for Digital Forensics
Lan Du, Huidong Jin, Olivier de Vel and Nianjun Liu

T2-II

Dark Web

Discovery of Improvised Explosive Device Content in the Dark Web
Hsinchun Chen
IEDs in the Dark Web: Genre Classification of Improvised Explosive Device Web Pages
Hsinchun Chen
Cyber Extremism in Web 2.0: An Exploratory Study of International Jihadist Groups
Hsinchun Chen, Sven Thoms and Tianjun Fu

T2-III

Infrastructure Protection

RiskPatrol: A Risk Management System Considering the Integration Risk Management with Business Continuity Processes
Shi-Cho Cha, Pei-Wen Juo, Li-Ting Liu and Wei-Ling Chen
A Novel Risk Assessment System for Port State Control Inspection
Zhong Gao, Guanming Lu, Mengjui Liu and Meng Cui
Restoration of Linear Motion and Out-of-Focus Blurred Images in Surveillance Systems
Chung-Hao Chen, Te-Yu Chien, Wen-Chao Yang and Che-Yen Wen

3:15 - 3:30 PM	Break
3:30 - 5:00 PM	<p>T3-I Knowledge Discovery and Text Mining Sentiment and Affect Analysis of Dark Web Forums: Measuring Radicalization on the Internet <i>Hsinchun Chen</i> Detecting Deception in Testimony <i>A. Little and D.B. Skillicorn</i> A Locality Model of the Evolution of Blog Networks <i>Mark Goldberg, Malik Magdon-Ismael, Stephen Kelley and Konstantin Mertsalov</i> A Template Alignment Algorithm for Question Classification <i>Cheng-Lung Sung, Min-Yuh Day, Hsu-Chun Yen and Wen-Lian Hsu</i></p> <p>T3-II Intrusion Detection Intrusion Activity Projection for Cyber Situational Awareness <i>ShanchiehJ. Yang, Stephen Byers, Jared Holsopple, Brian Argauer and Daniel Fava</i> Advanced Sensor Fusion Technique for Enhanced Intrusion Detection <i>Ciza Thomas and Narayanaswamy Balakrishnan</i> Depth Evaluation Intrusion Detection using Coloured Stochastic Petri Nets <i>Chien-Chuan Lin and Ming-Shi Wang</i> Anomaly Detection in High-dimensional Network Data Streams: A Case Study <i>Ji Zhang, Qigang Gao and Hai Wang</i></p> <p>T3-III Panel: Cybercrime and Social Computing <i>Danel Zeng, Sheau-Dong Lang, Raymond Hsieh, Michael Chau, and Christopher C. Yang</i></p>

6:00 - 8:30 PM	Banquet, Poster Exhibition, and Awards Ceremony
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June 20, 2008 (Friday)	
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7:30 - 8:00 AM	Registration
8:00 - 9:00 AM	<p>Keynote Talk: Homeland Security Data Mining using Social Network Analysis <i>Dr. Hsinchun Chen</i></p>
9:00 - 10:30 AM	<p>Invited Talk: Intelligence Pattern Recognition and Biometrics <i>Dr. Patrick Wang</i> Real Time Intrusion Prediction, Detection and Prevention Programs <i>Dr. Ajith Abraham</i></p>

10:30 - 10:45 AM	Break
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10:45 AM - 12:15 PM	<p>F1-I Knowledge Discovery and Text Mining A Template Alignment Algorithms for Mining Web Access Patterns <i>Wenjia Wang and Phuong Thanh Cao-Thai</i> Swarm Intelligence Based Rough Set Reduction Scheme for Support Vector Machines <i>Hongbo Liu and Ajith Abraham</i> A Study of Anti-root Agent Mechanisms and Process on Online Games <i>N.W. Lo and Shiou-Hung Chen</i></p> <p>F1-II Intrusion Detection and Infrastructure Protection A Real-time Network Intrusion Detection System Based on Incremental Mining Approach <i>Ming-Yang Su, Kai-Chi Chang, Hua-Fu Wei and Chun-Yuen Lin</i> Reading Order Independent Grouping Proof for RFID Tags <i>Yuanhung Lien, Xuefei Leng, Keith Mayes and Jung-Hui Chiu</i> A Fast Algorithm for Data Erasure <i>Guomeng Wang and Yanping Zhao</i></p>
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F1-III

Cyber Security

Secure Remote Control Model for Information Appliances

Wen-Gong Shieh, Jian-Min Wang, and Wen-Bing Horng

Efficient Keyword Index Search over Encrypted Data of Groups

Hyun-A Park, Justin Zhan, Gary Blosser and Dong Hoon Lee

Data Hiding Using VQ Index File

Yu-Jie Chang and Ja-Chen Lin