

 **IEEE SOCIALCOM 2010 & PASSAT 2010**

The Second IEEE International Conference on Social Computing

The Second IEEE International Conference on Privacy, Security, Risk and Trust

August 20-22, 2010, Minneapolis, Minnesota, USA

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PROGRAM OF SOCIALCOM-10/PASSAT-10 AT A GLANCE

August 19 (Thursday)						
14:00-18:00	Registration (Holiday Inn Hotel & Suite Minneapolis Airport) Address: Three Appletree Square, Bloomington, MN, 55425, USA					
August 20 (Friday)						
07:00	Registration starts					
07:00-08:00	Breakfast (Fireside Foyer)					
08:00-08:15	Opening Remarks (Fireside/Cortland)					
08:15-09:15	Keynote Speech: Trustworthy Paradigms for the Nationwide Health Information Network by Latanya Sweeney (Fireside/Cortland) Chair: Stephen Yau					
09:15-11:45	SocialCom-10 (Cortland) Session A11			PASSAT-10 (Fireside) Session B11		
11:45-13:00	Lunch (MARTELS & Harvest Café)					
13:00-15:30	SocialCom-10 (Cortland) Session A12	SIN-10 (Taylor) Session A21	SCA-10 (Beacon) Session A31	PASSAT-10 (Fireside) Session B12	SecureCom-10 (Duchess) Session B21	PASWeb-10 (Regent) Session B41
15:30-16:00	Break (Fireside Foyer)					
16:00-18:30	SocialCom-10 (Cortland) Session A13	SIN-10 (Taylor) Session A22	SCA-10 (Beacon) Session A32	PASSAT-10 (Fireside) Session B13	SecureCom-10 (Duchess) Session B22	PASWeb-10 (Regent) Session B42
18:30-21:30	Night Tour of Mall of America (Dine/Shop/Entertainment) (Free Shuttle Available at Hotel) (http://www.mallofamerica.com) Underwater Adventures Aquarium (Open until 20:30)					
August 21 (Saturday)						
07:00-08:00	Breakfast (Fireside Foyer)					
08:00-09:00	Keynote Speech: From Disasters to WoW: Multi-theoretical Multilevel Models to Understand and Enable Networks by Noshir Contractor (Fireside/Cortland) Chair: Justin Zhan					
09:00-11:30	SocialCom-10 (Cortland) Session A14			PASSAT-10 Session B14 (Fireside) Plenary Talk: Information Flow and Propagation: The UNIX Concept of Security by Tsau Young Lin Chair: Joseph Johnson		
11:30-13:00	Lunch (MARTELS & Harvest Café)					
13:00-15:30	SocialCom-10 (Cortland) Session A15	SIN-10 (Taylor) Session A23	SCA-10 (Beacon) Session A33	PASSAT-10 (Fireside) Session B15	PSA-10 (Duchess) Session B31	MATTM-10 (Regent) Session B51
15:30-16:00	Break (Fireside Foyer)					
16:00-18:30	SocialCom-10 (Cortland) Session A16	SIN-10 (Taylor) Session A24	SCA-10 (Beacon) Session A34	SecureCom-10 (Fireside) Session B23	PSA-10 (Duchess) Session B32	MATTM-10 (Regent) Session B52
18:45-19:45	Keynote Speech: Kith and Kin: How Social Networks Make Us Smart by Alex Sandy Pentland (Fireside/Cortland) Chair: Noshir Contractor					
19:45-21:30	Banquet (McIntosh/Jonathan/Fireside)					
August 22 (Sunday)						
07:00-08:00	Breakfast (Fireside Foyer)					
08:00-9:30	Plenary Panel: Privacy and Security in Social Computing (Fireside/Cortland) Chair: Stephen S. Yau, Arizona State University Panelists: Nashir Contractor, Northwestern University, Murat Kantarcioglu, University of Texas, Dallas, Alex "Sandy" Pentland, MIT					
9:30-12:00	SocialCom-10 Session A17 (Cortland) Plenary Talk: A New Foundation for Networks and Associated Metrics Applicable to General Social Network Analysis by Joseph Johnson Chair: Tsau Young Lin		SIN-10 (Taylor) Session A25	SIN-10 (Beacon) Session A26	SIN-10 (Fireside) Session A27	CMDSS-10 (Duchess) Session A51 SIN-10 Session A28
12:00-14:00	Lunch (MARTELS & Harvest Café)					
14:00	Conferences end					
14:00-19:00	Day Tour of Mall of America (Free Shuttle Available at Hotel) (http://www.mallofamerica.com) Underwater Adventures Aquarium (Open until 19:00)					

Keynote Speech

Speaker Name: Dr. Latanya Sweeney

www.dataprivacylab.org/people/sweeney/



Title: Trustworthy Paradigms for the Nationwide Health Information Network

Abstract: The American Recovery and Reinvestment Act of 2009 ("ARRA" or the stimulus bill) aims to build a Nationwide Health Information Network (NHIN) by 2015 and provides an abundance of funds, political will and policy attention but little computational reasoning, so it is not surprising current approaches have grave privacy concerns and poor utility. A preferred NHIN maximizes utility while providing guarantees of privacy protection. This talk describes ARRA's financial incentives, assesses promoted NHIN approaches and introduces innovative architectural paradigms --all aimed at encouraging participation from the computing field.

Bio: Latanya Sweeney, PhD is a Distinguished Career Professor of Computer Science, Technology and Policy in the School of Computer Science at Carnegie Mellon University, Director and founder of the Data Privacy Lab, and is currently a visiting faculty member at Harvard and MIT. She was recently appointed to the Privacy and Security Seat of the Federal Health Information Technology Policy Committee, the federal advisory committee established by Congress in the stimulus bill to offer advice on electronic medical record adoption and the nationwide health information network. She is a computer scientist with a long history of resolving real-world technology-privacy clashes through technology design. Her work has received numerous awards and patents and been heavily cited. More information about Dr. Sweeney is available at dataprivacylab.org/people/sweeney/

Speaker Name: Dr. Noshir Contractor

<http://nosh.northwestern.edu/>



Title: From Disasters to WoW: Multi-theoretical Multilevel Models to Understand and Enable Networks

Abstract: Recent advances provide comprehensive digital traces of social actions, interactions, and transactions. These data provide an unprecedented exploratorium to model the socio-technical motivations for creating, maintaining, dissolving, and reconstituting multidimensional social networks. Multidimensional networks include multiple types of nodes (people, documents, datasets, tags, etc.) and multiple types of relationships (co-authorship, citation, web links, etc). Using examples from research in a wide range of activities such as disaster response, public health and massively multiplayer online games (WoW - the World of Warcraft), Contractor will outline a multi-theoretical multilevel model to help advance our ability to understand and enable multidimensional networks.

Bio: Dr. Noshir Contractor is the Jane S. & William J. White Professor of Behavioral Sciences in the McCormick School of Engineering & Applied Science, the School of Communication and the Kellogg School of Management at Northwestern University, USA. He is the Director of the Science of Networks in Communities (SONIC) Research Group at Northwestern University. He is investigating factors that lead to the formation, maintenance, and dissolution of dynamically linked social and knowledge networks in a wide variety of contexts including communities of practice in business, translational science and engineering communities, public health networks and virtual worlds. His research program has been funded continuously for over a decade by major grants from the U.S. National Science Foundation with additional current funding from the U.S. National Institutes of Health (NIH), Air Force Research Lab, Army Research Institute, Army Research Laboratory and the MacArthur Foundation.

Speaker Name: Dr. Alex (Sandy) Pentland

<http://web.media.mit.edu/~sandy/>



Title: Kith and Kin: How Social Networks Make Us Smart

Abstract: Professor Pentland’s research shows that the attitudes and actions of peers, rather than logic or argument, usually dominates people’s beliefs and actions. The mechanism appears to be based on learning by example from kithmates (a set of peers relevant to the problem at hand) rather than being based on information, friendship ties, or social influence. The prevalence of this type of learning-from-example has important implications for the interpretation of social network phenomena, and may demand a rethink of much of the conventional wisdom about how social networks function.

Bio: Professor Alex (“Sandy”) Pentland is a pioneer in organizational engineering, mobile information systems, and computational social science. Sandy’s focus is the development of human-centered technology, and the creation of ventures that take this technology into the real world. He directs the Human Dynamics Lab, helping companies to become more productive and creative through organizational engineering, and the Media Lab Entrepreneurship Program, which helps translate cutting-edge technology into real-world impact around the world. He is among the most-cited computer scientists in the world, and in 1997 Newsweek magazine named him one of the 100 Americans likely to shape this century.

Plenary Panel Session

Title: Privacy and Security in Social Computing

Social computing has been increasingly popular and important in various applications in our daily life. In order to provide sufficient confidence for the growing population of users in using social computing and services provided by various service providers, the privacy and security of the users' information and its processing in the information systems of social networks are obviously very critical. In this panel session, we will focus on the trends of the technological and social aspects of the privacy and security in social computing and networks, including topics like the trade-off between threats to individual's privacy, and the benefits individuals get from social media.

Chair: Stephen S. Yau, Arizona State University

Panelists: Noshir Contractor, Northwestern University

Murat Kantarcioglu, University of Texas at Dallas

Alex "Sandy" Pentland, MIT

Plenary Talk

Speaker Name: Dr. Joseph E. Johnson, Distinguished Professor Emeritus of Physics,

Physics Department, University of South Carolina



Title: A New Foundation for Networks and Associated Metrics Applicable to General Social Network Analysis

Abstract: A new foundation for the general theory of networks developed by the author will be presented along with information theory (entropy) based metrics. This work provides both an unambiguous structure for eigenvalue-eigenvector analysis and an intuitive interpretation that can guide understanding of the topology of social networks. It is also shown that this theory supports a well defined information (entropy) theoretic analysis that leads to an entropy spectral analysis of networks allowing networks to be usefully compared topologically and addressing the problems of ambiguous node ordering. Applications are underway on very large scale economic and health networks that utilize our previous analysis of internet and communications networks.

Bio: Dr. Johnson received his BA from Vanderbilt University, his MS from the State University of Iowa, and his PhD from the State University of New York at Stony Brook (now Stony Brook University) all in theoretical physics. His dominant research area is the application of continuous (Lie) groups and algebras to the foundations of relativity & quantum theory and to particle physics. He was Associate Dean for 13 years and then returned to the faculty forming the Advanced Solutions Group as Director and has obtained over \$14M in funding with over 120 grants for advanced information systems solutions in the last 20 years. He has also developed new software for self-correcting systems using expert consensus and has used these algorithms to develop a new educational assessment & management software system 'QRECT', where students respond to all class questions using individual iPods or iPads. This system is being used to study 'learning' and 'social' networks at multiple levels (K-PhD). In the last 8 years he has applied his work on the general linear group to Markov type transformations and has shown in his recent DARPA funded research that every network is one-to-one with a Markov transformation thus tightly connecting the three mathematical areas of (1) network theory & metrics, (2) continuous Markov transformations, and (3) the theory of Lie groups. This has provided a new foundation for network mathematics with both well defined eigenvector analysis and entropy spectral analysis as new metrics for the analysis of general networks. He currently is applying this new analysis to a spectrum of social networks in economics, health, and communications (internet) traffic.

Plenary Talk

Speaker Name: Dr. Tsau Young (T.Y.) Lin



Title: Information Flow and Propagation: The UNIX Concept of Security

Abstract: “Discretionary Access Control cannot prevent the illegitimate propagation once access is granted” has been the “ancient” critique on the UNIX concept of security. Together with signaling problem, it has been called information propagation problem. In this talk, the signaling problem will not be addressed. Roughly, we shall use information flow to referring the intended flow of data, while unintended information propagation. The “problem” is really rooted from the inadequate analysis of UNIX concept: If A grants B an access, then B can propagate the accessed data “freely.” The “solution” is based on some concepts of social networks and granular computing. It is a generalization of Chinese Wall security policy (CWSP) that was proposed by Nash and Brewer nearly two decades ago.

Bio: Tsau Young (T.Y.) Lin received his PhD in Mathematics from Yale University and is a Professor of Computer Science at San Jose State University and a fellow in Berkeley Initiative in Soft Computing (BISC), University of California. He is the President of International Granular Computing Society, the Founding Chair of Special Interest Group of Granular Computing in BISC, the Founding President of International Rough Set Society and also had been the Chapter Chair of IEEE Computer Society in Silicon Valley. He shares the Editor-in-Chief with Tony Xiaohua Hu for the International Journal of Granular Computing, Rough Sets and Intelligent Systems. He has/had served as Editor-in-Chief, Associate Editors, and member of Advisory/Editorial Board in several reputable international journals, such as Theoretical Computer Sciences (Chinese), Knowledge Discovery in Database, Knowledge and Information Systems, Data Mining and Bioinformatics and Intelligent Automation and Soft Computing. He had served as (co-)chairs members of program committees of many conferences and workshops in the areas of data mining, computer security, rough sets, granular computing, etc. He also serves advisory board, panellist, etc. on some government agencies. He has a wide spectrum of interests that includes approximate retrievals and reasoning, data, text and web mining, data security, data warehouse and novel computing methodologies (e.g., granular, rough, Petri net and soft computing). He received the best contribution awards from ICDM01 and International Rough Set Society (2005) and a pioneer award from GrC2008.

A: Sessions and Papers in SocialCom-10
The Second IEEE International Conference on Social Computing (SocialCom-10)

Session A11 (Chair: Ee-Peng Lim)

Detecting Social Situations from Interaction Geometry
Georg Groh, Alexander Lehmann, Jonas Reimers, Rene Friess, Loren Schwartz

Team Formation for Generalized Tasks in Expertise Social Networks
Cheng-Te Li, Man-Kwan Shan

Learning about the quality of teamwork from Wikiteams
Adam Wierzbicki, Piotr Turek, Radoslaw Nielek, Albert Hupa, Anwitaman Datta

A Probabilistic Approach to Personalized Tag Recommendation
Meiqun Hu, Ee-Peng Lim, Jing Jiang

A Trust Model for Intervehicular Communication Based on Belief Theory
Walter Bamberger, Josef Schlittenlacher, Klaus Diepold
(Best SocialCom Conference Paper Award)

Session A12 (Chair: Yan Sun)

Participatory Risk Management: Managing Community Risk through Games
Miao Jiang, William McGill

Measuring Social Relations: Case OtaSizzle
Juuso Karikoski, Matti Nelimarkka

Experiments in Microblog Summarization
Beaux Sharifi, Mark-Anthony Hutton, Jugal Kalita

Development of Communication Model for Social Robots based on Mobile Service
Ji-Dong Yim, Sungkuk Chun, Keechul Jung, Christopher D. Shaw

Anomaly Detection in Feedback-based Reputation Systems through Temporal and Correlation Analysis
Yuhong Liu, Yan Sun
(Best SocialCom Conference Paper Award)

Session A13 (Chair: Whitman Richards)

The Evolution of Friendships in Chinese Online Social Networks
Louis Yu, Valerie King

Structural Predictors of Tie Formation in Twitter: Transitivity and Mutuality
Scott Golder, Sarita Yardi

Personalized Feed Recommendation Service for Social Networks
Huajing Li, Yuan Tian, Wang-chien Lee, C. Lee Giles, Meng-chang Chen

Finding Overlapping Communities in Social Networks
Mark Goldberg, Stephen Kelley, Malik Magdon-Ismael, Konstantin Mertsalov, William Wallace

Decomposing Social Networks
Whitman Richards, Owen Macindoe

Session A14 (Chair: Jaideep Srivastava)

Precursors and Laggards: An Analysis of Semantic Temporal Relationships on a Blog Network
Telmo Menezes, Camille Roth, Jean-Philippe Cointet

Team Performance Prediction in Massively Multiplayer Online Role-Playing Games
Kyong Jin Shim, Jaideep Srivastava

Follow the Profit or the Herd? Exploring Social Effects in Peer-to-Peer Lending
Dawei Shen, Coco Krumme, Andrew Lippman

Prisoner's Dilemma in Graphs with Heterogeneous Agents
Lingzhi Luo, Nilanjan Chakraborty, Katia Sycara

TweetHood: Agglomerative Clustering on Fuzzy k-Closest Friends with Variable Depth for Location Mining
Satyen Abrol, Latifur Khan

Session A15 (Chair: Felix Wu)

On Navigability of Social Tagging Systems
Denis Helic, Christoph Trattner, Markus Strohmaier, Keith Andrews

Estimating the size of online social networks
Shaozhi Ye, Felix Wu

Want to be Retweeted? Large Scale Analytics on Factors Impacting Retweet in Twitter Network
Bongwon Suh, Lichan Hong, Peter Piroli, Ed Chi

q-Anon: Rethinking Anonymity for Social Networks
Aaron Beach, Mike Gartrell, Richard Han

Graph Comparison Using Fine Structure Analysis
Owen Macindoe, Whitman Richards

Session A16 (Chair: Noshir Contractor)

Dark Gold: Statistical Properties of Clandestine Networks in Massively-Multiplayer Online Games
Brian Keegan, Muhammad Ahmad, Jaideep Srivastava, Dmitri Williams, Noshir Contractor

Learning to Predict Ads Click Based on Boosted Collaborative Filtering
Teng-Kai Fan, Chia-Hui Chang

Behavior Evolution and Event-driven Growth Dynamics in Social Networks
Baojun Qiu, Kristinka Ivanova, John Yen, Peng Liu

A Qualitative Method to Find Influencers Using Similarity-based Approach in the Blogosphere
Eunyoung Moon, Sangki Han

Churn in Social Networks: A Discussion Boards Case Study
Marcel Karnstedt, Tara Hennessy, Jeffrey Chan, Conor Hayes

Session A17 (Chair: Tsau Young Lin)

**A New Foundation for Networks and Associated Metrics Applicable to General Social Network Analysis
(Plenary Talk)
Joseph Johnson**

Preserve Your Privacy with PCO: A Privacy Sensitive Architecture for Context Obfuscation for Pervasive E-Community based applications
Farzana Rahman, Md. Endadul Hoque, Ferdous Ahmed Kawsar, Sheikh Iqbal Ahamed

Characterizing Dense Urban Areas from Mobile Phone-Call Data: Discovery and Social Dynamics
Marcos Vieira, Vanessa Frias-Martinez, Nuria Oliver, Enrique Frias-Martinez

Link Creation and Profile Alignment in the aNobii Social Network
Luca Maria Aiello, Alain Barrat, Ciro Cattuto, Giancarlo Ruffo, Rossano Schifanella

The Second International Symposium on Social Intelligence and Networking (SIN-10)

Session A21 (Chair: Joseph Johnson)

Many Faces of Mentoring in an MMORPG

Muhammad Ahmad, David Huffakar, Jing Wang, Jeff Treem, Dinesh Kumar, Scott Poole, Jaideep Srivastava

Paying Attention to Each Other in Visible Work Communities: Modeling Bursty Systems of Multiple Activity Streams

Jamie F Olson, James Howison, Kathleen M Carley

Mining Temporal Subgraph Patterns in Heterogeneous Information Networks

Hsun-Ping Hsieh, Cheng-Te Li

Discovering Influence in Communication Networks using Dynamic Graph Analysis

Alexy Khrabrov, George Cybenko

A Scalable Framework for Modeling Competitive Diffusion in Social Networks

Matthias Broecheler, Paulo Shakarian, VS Subrahmanian

Session A22 (Chair: Hasan Davulcu)

Measuring Similarity between Sets of Overlapping Clusters

Mark Goldberg, Mykola Hayvanovych, Malik Magdon-Ismael

Representing Diversity in Communities of Bayesian Decision-Makers

Kshanti Greene, Joe Kniss, George Luger

A Recommender System for YouTube Based on its Network of Reviewers

Song Qin, Ronaldo Menezes, Marius Silaghi

Analysis of Social Dynamics on FDA Panels Using Social Networks Extracted from Meeting Transcript

David Broniatowski

Detection of Overlapping Communities in Dynamical Social Networks

Remy Cazabet, Frederic Amblard, Chihab Hanachi

(Best SIN Symposium Paper Award)

Session A23 (Chair: Rhoda Baggs)

Analyzing Sentiment Markers Describing Radical and Counter-Radical Elements in Online News

Hasan Davulcu, Syed Toufeeq Ahmed, Sedat Gokalp, M'hamed H Temkit, Tom Taylor, Mark Woodward, Ali Amin

Network Exchange in Trust Networks

Muhammad Ahmad, Marshall Poole, Jaideep Srivastava

WISDOM from Light-Weight Information Retrieval

David Bracewell, Steven Gustafson, Abha Moitra, Gregg Steuben

Exploration of Asynchronous Online Teaching With a Network Analysis of Class Interaction

Rhoda Baggs, Chan Wei Wu

Facilitating Knowledge Exploration in Folksonomies: Expertise Ranking by Link and Semantic Structures

Wai-Tat Fu, Wei Dong

Session A24 (Chair: Carson Leung)

Authority vs Affinity: Modeling User Intent in Expert Finding
Suratna Budalakoti, K. Suzanne Barber

On Adoption of Social Computing in the Engineering Community
Sigal Louchheim, Sally Price

Bonding vs. Bridging Social Capital: A Case Study in Twitter
Matthew Smith, Christophe Giraud-Carrier

Exploring Social Networks: A Frequent Pattern Visualization Approach
Carson Leung, Chris Carmichael

Building Mobile Social Network with Semantic Relation using Bayesian Network-based Life-log Mining
Han-Saem Park, Keun-Hyun Oh, Sung-Bae Cho

Session A25 (Chair: Ee-Peng Lim)

Multi-layered Social Network Creation Based on Bibliographic Data
Przemyslaw Kazienko, Piotr Brodka, Katarzyna Musial, Jaroslaw Gaworecki

From Communication to Collaboration: Simulating the Emergence of Inter-organizational Collaboration Network
Kang Zhao, John Yen, Louis-Marie Ngamassi, Carleen Maitland, Andrea Tapia

Establishing Email-based Social Network Trust
Dijiang Huang, Vetri Arasan

User Perceptions of Contemporary and Ubiquitous Monitoring Devices in Office Workplaces
Stuart Moran, Keiichi Nakata

Messaging Behavior Modeling in Mobile Social Networks
Byung-Won On, Ee-Peng Lim, Jing Jiang, Freddy Chong Tat Chua, Viet-An Nguyen, Loo-Nin Teow

Session A26 (Chair: Sean Goggins)

SERPWatcher: A Sophisticated Mining Tool utilizing Search Engine Results Pages (SERPs) for Social Change Discovery
Yoshifumi Masunaga, Naoko Oyama, Kazunari Ito, Chiemi Watanabe, Kaoru Tachi, Yoichi Miyama

The Dynamics of Two Cognitive Heuristics for Coordination on Networks
Iyad Rahwan, Fatemeh Jahedpari, Sherief Abdallah

Automated Inference of Socio-cultural Information From Natural Language Conversations
Richard Scherl, Daniela Inclezan, Michael Gelfond

ImpactRank: A Study on News Impact Forecasting
Sukru Tikves, Hasan Davulcu

Social Intelligence in Completely Online Groups: Toward Social Prosthetics From Log Data Analysis and Transformation
Sean Goggins, James Laffey, Chris Amelung

Session A27 (Chair: Jacob Ratkiewicz)

Assessing the Value of Contributions in Tagging Systems
Elizeu Santos-Neto, Flavio Figueiredo, Jussara Almeida, Miranda Mowbray, Marcos Gonçalves, Francisco Brasileiro, Matei Ripeanu

Using Online Media Sharing Behavior as Implicit Feedback for Collaborative Filtering
Geonhyeok Go, Joonhyuk Yang, Hyunwoo Park, Sangki Han

Mining Human Location-Routines using a Multi-Level Approach to Topic Modeling
Katayoun Farrahi, Daniel Gatica-Perez

Traffic in Social Media I: Paths Through Information Networks
Jacob Ratkiewicz, Alessandro Flammini, Filippo Menczer

Traffic in Social Media II: Modeling Bursty Popularity
Jacob Ratkiewicz, Filippo Menczer, Santo Fortunato, Alessandro Flammini, Alessandro Vespignani

Session A28 (Chair: Xiaohui Cui, Laura Pullum, Christopher Rouff)

Exploring Social Contexts along the Time Dimension: Temporal Analysis of Named Entities
Brett Walenz, Robin Gandhi, William Mahoney, Quiming Zhu

Using Stereotypes to Identify Risky Transactions in Internet Auctions
Xin Liu, Tomasz Kaszuba, Radoslaw Nielek, Anwitaman Datta, Adam Wierzbicki

Detecting Terrorism Evidence in Text Documents
Pir Abdul Rasool Qureshi, Nasrullah Memon, Uffe Kock Wiil

The Second International Symposium on Social Computing Applications (SCA-10)

Session A31 (Chair: William Simm)

Friendfeed Breaking News: Death of a Public Figure
Matteo Magnani, Danilo Montesi, Luca Rossi

The Impact of Web 2.0 Developments on Groupware
Stephen Mogan, Weigang Wang

A Cluster-Based Approach for Automatic Social Network Construction
Wei-Lun Chang, Zih-Siang Lin

A Geometric Pattern-Based Method to Build Hierarchies of Geo-Referenced Tags
Donggi Jung, Hyunwoo Park, Ryong Maeng, Sangki Han

Classification of Short Text Comments by Sentiment and Actionability for VoiceYourView
William Simm, Maria-Angela Ferrario, Scott Piao, Jon Whittle, Paul Rayson

Session A32 (Chair: Vassilis Kostakos, Jayant Venkatanathan)

Who Communicates With Whom? Measuring Communication Choices on Social Media Sites
Christoph Stadtfeld

Measurement, Modeling, and Analysis of a Large-scale Blog Server Workload
Myeongjae Jeon, Jeaho Hwang, Youngjae Kim, Jae-Wan Jang, Joonwon Lee, Euseong Seo

Does Similarity Breed Connection? - An Investigation in BlogCatalog and Last.fm Communities
Nitin Agarwal, Halil Bisgin, Xiaowei Xu

Evaluating Community Structure in Bipartite Networks
Xin Liu, Tsuyoshi Murata

Making Friends in Life and Online: Equivalence, Micro-correlation and Value in Spatial and Transpatial Social Networks
Vassilis Kostakos, Jayant Venkatanathan

Network Analysis of the ILPnet2 co-authorship network
Qingyi Gao

Session A33 (Chair: Tony White)

An Analysis Method for Service Process Considering Resource Operation Rules
Tomoe Tomiyama, Tatsuhiro Sato

Cross-Lingual Information Retrieval as a Side Effect of Tagging
Mariam Elhussein, Keiichi Nakata

Politeness in Social Networks: Using Verbal Behaviors to Assess Socially-Accorded Regard
Christopher Miller, Sonja Schmer-Galunder, Jeffery Rye

Agreements Based Distribution of Responsibilities in National Electronic Health Records System
Srdjan Stakic, Nada Teodosijevic

Media Monitoring Using Social Networks
Tony White, Wayne Chu, Amirali Salehi-Abari
(Best SCA Symposium Paper Award)

Session A34 (Chair: Xiaohui Cui)

The Swarm Model in Open Source Software Developer Communities

Xiaohui Cui, Everett Stiles, Laura Pullum, Brian Klump, Jim Treadwell, Justin Beaver, Thomas Potok

Analyzing Effects of Electricity Subsidy on Social Welfare in Iran by Integrated System Approach and Artificial Neural Network

Mansoore Zarezadeh, M. Ali Azadeh, S. Farid Ghaderi

Interactive Phrasebook – Embedding Human Social Dynamics in Language Training

Peggy Wu, Chris Miller

GDC: Group Discovery using Co-location Traces

Steve Mardenfeld, Daniel Boston, Susan Pan, Quentin Jones, Adriana Iamnitchi, Cristian Borcea

Phishing Using a Modified Bayesian Technique

Kristofer Beck

The International Workshop on Finding Synergies Between Texts and Networks

Session A41 (Chair: Jana Diesner)

Learning Influence Propagation of Personal Blogs with Content and Network Analyses
Il-Chul Moon, Dongwoo Kim, Yohan Jo, Alice Oh

Opinion Summarization in Bengali: A Theme Network Model
Amitava Das, Sivaji Bandyopadhyay

Using Text Analysis to Understand the Structure and Dynamics of the World Wide Web as a Multi-Relational Graph
Harish Sethu, Alexander Yates

A Methodology for Integrating Network Theory and Topic Modeling and Its Application to Innovation Diffusion
Jana Diesner, Kathleen M. Carley
(Best SBTN Workshop Paper Award)

The International Workshop on Computational Modeling and Discovery in Social Systems

Session A51 (Chair: Xiaohui Cui, Laura Pullum, Christopher Rouff)

Framework for Modeling Opinion Dynamics Influenced by Targeted Messages
Sergey Malinchik

Construction of Synthetic Populations with Key Attributes: Simulation Set-up while Accommodating Multiple Approaches within a Flexible Simulation Platform
Steven J. Fernandez, Amy N. Rose, Edward A. Bright, Justin M. Beaver, Christopher T. Symons, Olufemi A. Omitaomu

Detecting Emergence in Social Networks
Peter Haglich, Christopher Rouff, Laura Pullum
(Best CMDSS Workshop Paper Award)

B: Sessions and Papers in PASSAT-10
The Second IEEE International Conference on Privacy, Security, Risk and Trust (PASSAT-10)

Session B11 (Chair: Jiangtao Li)

Failure Feedback for User Obligation Systems
Murillo Pontual, Keith Irwin, Omar Chowdhury, William Winsborough, Ting Yu

Measuring Disclosure Risk for Multimethod Synthetic Data Generation
Michael Larsen, Jennifer Hockett

OSNAC: An Ontology-Based Access Control for Social Networking Systems
Amirreza Masoumzadeh, James Joshi

Enhanced Privacy ID from Bilinear Pairing for Hardware Authentication and Attestation
Ernie Brickell, Jiangtao Li

Incentive Compatible Distributed Data Mining
Robert Nix, Murat Kantarcioglu
(Best PASSAT Conference Paper Award)

Session B12 (Chair: Li Yang)

Minimizing Disclosure of Private Information in Credential-Based Interactions: A Graph-Based Approach
Claudio A. Ardagna, Sabrina De Capitani di Vimercati, Sara Foresti, Stefano Paraboschi, Pierangela Samarati

SUCAS: An Architecture for Secure User Centric Attestation in Location-Based Service
Lee Fueng Yap, Takeshi Yashiro, Masahiro Bessho, Tomonori Usaka, M. Fahim Ferdous Khan, Noboru Koshizuka, Ken Sakamura

A Decision Theoretic Approach to Data Leakage Prevention
Janusz Marecki, Mudhakar Srivatsa, Pradeep Varakantham

Alerts Analysis and Visualization in Network-based Intrusion Detection Systems
Li Yang, Wade Gasior, Rajeshwar Katipally, Xiaohui Cui

VLR Group Signatures with Indisputable Exculpability and Efficient Revocation
Liqun Chen, Jiangtao Li
(Best PASSAT Conference Paper Award)

Session B13 (Chair: Chris Clifton)

Practical and Secure Integer Comparison and Interval Check
Ahmet Erhan Nergiz, Mehmet Ercan Nergiz, Thomas Pedersen, Chris Clifton

Achieving receiver location privacy in Mobile Ad Hoc Networks
Somayeh Taheri, Salke Hartung, Dieter Hogrefe

Security and Privacy Risks of Using E-mail Address as an Identity
Lei Jin, Hassan Takabi, James Joshi

A Private and Reliable Recommendation System for Social Networks
T. Ryan Hoens, Marina Blanton, Nitesh Chawla

An Efficient Range Proof Scheme
Kun Peng, Feng Bao

Session B14 (Chair: Joseph Johnson)

Information Flow and Propagation: The UNIX Concept of Security (Plenary Talk)

Tsau Young Lin

Automatic Conformance Verification of Distributed Firewalls to Security Requirements
Nihel Ben Youssef ben Souayeh, Adel Bouhoula

Exploring Rootkit Detectors' Vulnerabilities Using a New Windows Hidden Driver Based Rootkit
Woei-Jiunn Tsaur, Yuh-Chen Chen

Malicious Modification Attacks by Insiders in Relational Databases: Prediction and Prevention
Qussai Yaseen, Brajendra Panda

General Trust Management- GTM
Dalal Ahmed Al-Arayed, João Pedro Sousa

Session B15 (Chair: Dijiang Huang)

A Vagueness-based Obfuscation Technique for Protecting Location Privacy
Jafar Haadi Jafarian

The Design and Enforcement of A Rule-based Constraint Policy Language for Service Composition
Wei Wei, Ting Yu

Gradual Identity Exposure Using Attribute-Based Encryption
Dijiang Huang, Zhibin Zhou, Yan Zhu

Evolving Attacker-Defender Gaming Strategies in a Simulated Network Environment
Pavan Vejanjala, Dipankar Dasgupta, Aishwarya Kaushal, Fernando Nino

Generating RFID Privacy Policies Using a Systematic Scheme
Shi-Cho Cha, Ren-Ting Ku, Ya-Ping Fu, Hao-Ping Lin

The Second International Symposium on Secure Computing (SecureCom-10)

Session B21 (Chair: Jose Romero-Mariona)

A Novel Approach for the Development and Deployment of Security Patterns
Azzam Mourad, Hadi Otrouk, Lama Baajour

Increasing Trustworthiness Through Security Testing Support
Jose Romero-Mariona, Hadar Ziv, Debra Richardson

On the Impact of Environmental Metrics on CVSS Scores
Laurent GALLON

A Privacy-Enabled Architecture for an RFID-based Location Monitoring System
James Lee, Khalil El-Khatib

Malware Type Recognition and Cyber Situational Awareness
Thomas Dube, Richard Raines, Gilbert Peterson, Kenneth Bauer, Michael Grimaila, Steven Rogers
(Best SecureCom Symposium Paper Award)

Session B22 (Chair: William Sousan)

A Secure Distributed File System for Medical Image Archiving
Jiang Bian, Remzi Seker, Umit Topaloglu

A Formal Model to Analyze the Permission Authorization and Enforcement in the Android Framework
Wook Shin, Shinsaku Kiyomoto, Kazuhide Fukushima, Toshiaki Tanaka

Using Term Extraction Patterns to Discover Normal Relationships
William Sousan, Qiuming Zhu, Robin Gandhi, William Mahoney, Anup Sharma

Comparative Analysis of ccTLD Security Policies
Collins Umana, Pavol Zavarsky, Ron Ruhl, Dale Lindskog, Oluwatoin Gloria Ake-Johnson

Secure Wireless Embedded Systems via Component-based Design
Theis Hjorth, Rune Torbensen

Session B23 (Chair: William Sousan)

A Multi-Factor Approach to Securing Software on Client Computing Platforms
Raghunathan Srinivasan, Partha Dasgupta, Vivek Iyer, Amit Kanitkar, Sujit Sanjeev, Jatin Lodhia

A Secure Smart-card-based Password Authenticated Key Agreement Scheme in Multi-server Environments
Woei-Jiunn Tsaur, Chia-Chun Wu

Information Privacy in Two Dimensions - Towards a Classification Scheme for Information Privacy Research
Kamil Reddy, H.S. Venter

Building a Social Dimensional Threat Model from Current and Historic Events of Cyber Attacks
Anup Sharma, Robin Gandhi, William Mahoney, William Sousan, Qiuming Zhu

The Second International Symposium on Privacy and Security Applications (PSA-10)

Session B31 (Chair: Reijo Savola)

Towards a Risk-Driven Methodology for Privacy Metrics Development
Reijo Savola

Correcting Codes in the Quantum Keys Reconciliation: Scenarios of Privacy Maintenance
Mohamed Bader Boughattas, Iyed Ben Slimen, Houria Rezig

Access Control Mechanism Based on Trust Quantification
Shunan Ma, Jingsha He

A Framework for Home Wireless Network Security Education
Ebenezer Sackey, Dale Lindskog, Pavol Zavorsky

An Advanced Cloaking Algorithm using Hilbert Curves for anonymous Location Based Service
Jung-Ho Um, Hee-Dae Kim, Jae-Woo Chang

Session B32 (Chair: Abdullahi Arabo)

Data Mishandling and Profile Building in Ubiquitous Environments
Abdullahi Arabo

A Rough Set Approach to Agent Trust Management
Sadra Abedinzadeh, Samira Sadaoui

System-based Approach to Software Vulnerability
Sabah Al-Fedaghi

Mobile Malware Behavioral Analysis and Preventive Strategy Using Ontology
Hsiu-Sen Chiang, Woei-Jiunn Tsaur

CBPM: Context Based Privacy Model
M Venkata Swamy, Srinu Ramaswamy, Nitin Agarwal
(Best PSA Symposium Paper Award)

AHP implemented Security Assessment and Security Weight Verification
Xuhua Ji

International Workshop on Privacy Aspects of Social Web and Cloud Computing (PASWeb-10)

Session B41 (Chair: Amin Anjomshoaa)

Securing Shareable Life-logs
Reza Rawassizadeh, A Min Tjoa

Social Networking Sites Security: Quo Vadis
Markus Huber, Martin Mulazzani, Edgar Weippl

Towards (Semi-)Automatic Moderation of Social Web Annotations
Elaheh Momeni

Audience Segregation in Social Network Sites
Bibi van den Berg, Ronald Leenes
(Best PASWeb Workshop Paper Award)

Session B42 (Chair: Amin Anjomshoaa)

Data Leak Prevention through Named Entity Recognition
José María Gómez Hidalgo, José Miguel Martín Abreu, Javier Nieves, Igor Santos, Felix Brezo, Pablo Bringas

Evaluating Potentials of Internet- and Web-based SocialTV in the Light of Privacy.
Mohamed Bourimi, Dhiah el Diehn Abou-Tair, Dogan Kesdogan, Thomas Barth, Kathrin Höfke

Privacy Aspects of Mashup Architecture
Gerald Bader, Amin Anjomshoaa, A Min Tjoa

International Workshop on Mission Assurance: Tools, Techniques, and Methodologies (MATTM-10)

Session B51 (Chair: Michael R. Grimaila)

Improving Cyber Security and Mission Assurance via Cyber Preparedness (Cyber Prep) Levels
Deborah Bodeau, Richard Graubart, Jennifer Fabius-Greene

A Systematic Comprehensive Computational Model for Stake Estimation in Mission Assurance
Robert Abercrombie, Frederick Sheldon, Michael Grimaila

Managed Mission Assurance - Concept, Methodology and Runtime Support
Partha Pal, Kurt Rohloff, Michael Atigtechhi, Rick Schantz

Improving Operational Resilience Processes: The CERT® Resilience Management Model
Richard Caralli, Julia Allen, Pamela Curtis, David White, Lisa Young

Mitigating Security Risks for End User Computing Application (EUCA) Data
Abhijit Kulkarni, Emilio Williams, Michael Grimaila

Session B52 (Chair: Michael R. Grimaila)

Steps toward improved analysis for Network Mission Assurance
Jimmie McEver, Craig Burris, Heather Schoenborn, David Signori

Providing Mission Assurance for Airborne and Enclave Networks
Rosalie Mcquaid, William Heinbockel, Peter Kertzner

Mission Aware Cyber Policy Representation
Samuel Hamilton, Sarah Muccio, Dean Lee, Allen Ott

Toward Linking Information Assurance and Air and Missile Defense Mission Metrics
Amy Castner, Bart Paulhamus, Matthew Henry, Robert Jailall, Vina Nguyen, Elizabeth Reilly
(Best MATTM Workshop Paper Award)