SBP + BRiMS 2014 Program

Tuesday, April 1 — TUTORIALS

Registration	Tue 7:30 AM		
Morning Tutorials	Tue 9:00 AM- 12:00 PM Room AB	Introduction to Social Data Analysis Combining R and Python	Dr. Jose Manuel Magallanes, George Mason University
(break at the discretion of the tutorial presenters)			
	Tue 9:00 AM- 12:00 PM Room C	Modeling a Mobile World	Dr. Wendy J. Nilsen; Dr. Stephen Intille, Northeastern University; Dr. Donna Spruijt-Metz, University of Southern California; Dr. Misha Pavel, Northeastern University
Lunch	Tue 12:00 PM - 1:30 PM	(no conference lunch served)	
Afternoon Tutorials	Tue 1:30 PM - 4:30 PM Room AB	Charting Collections of Connections in Social Media: Creating Maps and Measures with NodeXL	Dr. Marc A. Smith, Chief Social Scientist, Connected Action Consulting Group
(break at the discretion of the tutorial presenters)			
	Tue 1:30 PM - 4:30 PM Room C	Multiscale Strategic Interaction with vmStrat Models	Dr. David Sallach, University of Chicago, ANL

Wednesday, April 2

Registration	7:30 AM		
Welcome & Admin	8:00 AM	Claudio Cioffi-Revilla (SBP) & Bill Kennedy (BRiMS)	
Session 1 (BRiMS)	8:30 AM	Session Chair: Bill Kennedy	
Talk 1		Decisions from Experience: Could Models of Aggregate Choice Explain Individual Choices from Information Search?	Neha Sharma and Varun Dutt
Talk 2		The Effect of Heterogeneous Agents in Socio-Cognitive Networks	Changkun Zhao, Jui-Te Tseng, and Frank Ritter
Talk 3		A General Instance-Based Model of Sensemaking in a Functional Architecture	Robert Thomson, Christian Lebiere, and Stefano Bennati
Break	9:30 AM	Refreshments: muffins, yogurt, fruit, beverages	
Keynote	10:00 AM	Keynote by David W. Lightfoot entitled "The Complexity of Language: How It Is Acquired and How It Changes"	
Short break	11:00 AM		
Challenge Session	11:15 AM	Data Challenge Chairs: Kevin S. Xu, Wen Dong, Fred Morstatter, Katherine Chuang	
		Challenge Problem Description 2014 Winning Challenge Problem talk1 Winning Challenge Problem talk2 Challenge Problem Description 2015	
Lunch	12:30 PM - 1:45 PM	Catered lunch: sandwiches, salad, fruit, sweet, beverages	
Keynote	1:45 PM	Keynote by Patty Mabry entitled "Systems Science for Behavioral and Social Science Research: A Look at the Future"	
Best Paper Awards	2:55 PM	Terry Lyons Memorial Best Papers (Regular and Student) presented by the Program Chairs: William G. Kennedy, Nitin Agarwal, Shanchieh Jay Yang	
Break	3:10 PM	Refreshments: cupcakes, snacks, fruit, beverages	
Session 2	3:40 PM	Session Chair: Edward Ip	
Talk 1		Cover Your Cough! Quantifying the Benefits of a Localized Healthy Behavior Intervention on Flu Epidemics in Washington DC	Nidhi Parikh, Mina Youssef, Samarth Swarup, Stephen Eubank, and Youngyun Chungbaek
Talk 2		Sample Size Determination to Detect Cusp Catastrophe in Stochastic Cusp Catastrophe Model: A Monte-Carlo Simulation-Based Approach	Din-Geng (Din) Chen, Xinguang (Jim) Chen, Wan Tang, and Feng Lin
Talk 3		Mobility Patterns and User Dynamics in Racially Segregated Geographies of US Cities	Nibir Bora, Yu-Han Chang, and Rajiv Maheswaran
Talk 4		Quantifying Political Legitimacy from Twitter	Haibin Liu and Dongwon Lee
End of day	5:00 PM		

Thursday, April 3

Welcome & Admin	8:00 AM	*Claudio Cioffi-Revilla (SBP) & Bill Kennedy (BRiMS)*	
Session 3 (BRiMS)	8:30 AM	*Session Chair: Din Chen*	
Talk 1		Mathematical Capture of Human Data for Computer Model Building and Validation	Gladstone Reid, Gordon Cooke, Robert Demarco, Caitlin Weaver, John Riedener, and Elizabeth Mezzacappa
Talk 2		Design Patterns for Balancing Behavior Responsiveness	Randolph Jones and Robert Wray
Talk 3		Enhanced Behavioural Realism for Live Fire Targets	Rick Evertsz, Andrew Lucas, Cameron Smith, Matteo Pedrotti, Frank Ritter, Robin Bake,r and Paul Burns
Break	9:30 AM	*Refreshments: muffins, bagels, hardcooked eggs, fruit, beverages*	
Keynote	10:00 AM	**Keynote by Jacquelyn Morie entitled "The Ultimate Selfie"**	
Session 4	11:10 AM	*Session Chair: Amy Sliva*	
Talk 1		Segmenting Large-Scale Cyber Attacks for Online Behavior Model Generation	Steven Strapp and Shanchieh Jay Yang
Talk 2		Deriving Population Assessments through Opinion Polls, Text Analytics, and Agent-Based Modeling	Ian Yohai, Bruce Skarin, Robert McCormack, and Jasmine Hsu
Talk 3		Incorporating Interpretation into Risky Decision-Making: A Computational Model	David A. Broniatowski and Valerie F. Reyna
Talk 4		Emergent Consequences: Complex Behaviors in a Simple Model to Support Innovation Adoption, Planning, and Evaluation	H. Van Dyke Parunak and Jonathan A. Morell
Lunch	12:30 PM - 12:45 PM	*(no conference lunch served)*	
Session 5	1:45 PM	*Session Chair: Nitin Agarwal*	
Talk 1		Winning by Following the Winners: Mining the Behaviour of Stock Market Experts in Social Media	Wenhui Liao, Sameena Shah and Masoud Makrehchi
Talk 2		Predicting Social Ties in Massively Multiplayer Online Games	Jina Lee and Kiran Lakkaraju
Talk 3		Path Following in Social Web Search	Jared Lorince, Debora Donato, and Peter M. Todd
Talk 4		Estimating Social Network Structure and Propagation Dynamics for an Infectious Disease	Louis Kim, Mark Abramson, Kimon Drakopoulos, Stephan Kolitz, and Asu Ozdaglar
Short break	3:05 PM		
Poster Introductions	3:15 PM	*Poster Introduction Chairs: Sun-Ki Chai and David Reitter*	
Break (re-arrange room)	4:10 PM		
Thursday Poster Session and Reception 4:40 - 6:30PM		**Reception: assorted hot and cold hors d'oeuvres, sweets, beverages**	
SBP Poster		*The Needs of Metaphor*	David Bracewell
SBP Poster		*Predicting Guild Membership in Massively Multiplayer Online Games*	Hamidreza Alvari, Kiran Lakkaraju, Gita Sukthankar and Jonathan Whetzel
SBP Poster		*Frogs in a Pot: An Agent-Based Model of Well-Being Versus Prosperity*	Chris Thron
SBP Poster		*A New Paradigm for the Study of Corruption across Cultures*	Kobi Gal, Avi Rosenfeld, Sarit Kraus, Michele Gelfand and Bo An
SBP Poster		*Simulating International Energy Security*	David Masad
SBP Poster		*Emergent Behavior in Informal Text Communication: Emoticon Use in First and Second Languages*	Cecilia Aragon, Nan-Chen Chen, Judith Kroll and Laurie Feldman
SBP Poster		*Social Maintenance and Psychological Support using Virtual Worlds*	Peggy Wu, Jacquelyn Morie, J. Benton, Kip Haynes, Eric Chance, Tammy Ott and Sonja Schmer-Galunder
SBP Poster		*Temporal Dynamics of Scale-Free Networks*	Erez Shmueli, Yaniv Altshuler and Alex Pentland
SBP Poster		*Contexts of Diffusion: Adoption of Research Synthesis in Social Work and Women's Studies*	Laura Sheble and Annie Chen
SBP Poster		*Big Data-Driven Marketing: How Machine Learning Outperforms Marketers' Gut-Feeling*	Pål Sundsøy, Johannes Bjelland, Asif M. Iqbal, Alex "Sandy" Pentland, and Yves-Alexandre de Montjoye
SBP Poster		*Modeling Impact of Social Stratification on the Basis of Time Allocation Heuristics in a Social Network.*	Michal Kakol, Radoslaw Nielek and Adam Wierzbicki
SBP Poster		*Dyadic Attribution: A Theoretical Model for Interpreting Online Words and Actions*	Shuyuan Mary Ho, Shashanka Ss Timmarajus, Mike Burmester and Xiuwen Liu
SBP Poster		*Cholera and Water Treatment Behavior: Modeling the '08-'09 Cholera Epidemic in Zimbabwe*	Anne Carpenter
SBP Poster		*Team PsychoSocial State Assessment through Discourse Analysis: Power and Comfort/Routine*	Christopher Miller, Jeffrey Rye, Peggy Wu, Sonja Schmer-Galunder and Tammy Ott
SBP Poster		*Using Trust Model for Detecting Malicious Activities in Twitter*	Mohini Agarwal and Bin Zhou
SBP Poster		*Emerging Dyanmics in Crowdfunding Campaigns*	Huaming Rao, Anbang Xu, Xiao Yang and Wai-Tat Fu
SBP Poster		*A Study of Mobile Information Exploration with Multi-Touch Interactions*	Shuguang Han, I-Han Hsiao and Denis Parra
SBP Poster		*Frabjous: A Declarative, Domain-Specific Language for Agent-Based Modelling*	Ivan Vendrov, Christopher Dutchyn and Nathaniel Osgood
SBP Poster		*Incorporating Social Theories in Computational Behavioral Models*	Eunice E. Santos, Eugene Santos Jr., John Korah, Riya M. George, Qi Gu, Jacob Jurmain, Keumjoo Kim, Deqing Li, Jacob Russell, Suresh Subramanian, Jeremy Thompson and Fei Yu
SBP Poster		*Studying the Evolution of Online Collective Action: Saudi Arabian Women's Driving Campaign on Twitter*	Serpil Yuce, Nitin Agarwal, Rolf Wigand, Merlyna Lim and Rebecca Robinson.
SBP Poster		*Civil Unrest Prediction: A Tumblr-based Exploration*	Jiejun Xu, Tsai-Ching Lu, Ryan Compton and David Allen
SBP Poster		*Mutual Information Technique in Assessing Crosstalk Through a Random-Pairing Bootstrap Method*	Xinguang Chen and Din Chen
SBP Poster		*Social TV and the Social Soundtrack: Significance of Second Screen Interaction during Television Viewing*	Partha Mukherjee
SBP Poster		*A Comparative Study of Smoking Cessation Programs on Web Forum and Facebook*	Mi Zhang, Christopher Yang and Katherine Chuang
SBP Poster		*The Social Aspect of Voting for Useful Reviews*	Asher Levi and Osnat Mokryn
SBP Poster		*The Data Absorption Technique: Coevolution to Automate the Accurate Representation of Social Structure*	Deborah Duong
SBP Poster		*New Methods of Mapping: The Application of Social Network Analysis to the Study of the Illegal Trade in Antiquities*	Michelle D'Ippolito
SBP Poster		*Social Network Structures of Primary Health Care Teams Associated with Health Outcomes in Alcohol Drinkers with Diabetes*	Marlon Mundt and Larissa Zakletskaia
BRiMS Poster		*Support for ACT-R Modeling of Elliptical Endpoint Error Distributions in Mobile Touchscreen 2-D Fitts' Law Tasks*	Kristen Greene, Melissa Gallagher and Frank Tamborello
BRiMS Poster		*Quantifying and Enhancing Robustness of Cognitive and Behavioral Systems*	Matthew Walsh and Kevin Gluck
BRiMS Poster		*Modeling Psychological Theories of Emotion and Social Identity for Helping the Conception of Psychological Messages: The System PSYMDEV*	Colette Faucher and Malika Machtoune
BRiMS Poster		*Preparing Leaders at the United States Military Academy: A Socio-structural View*	Kathryn Coronges, Yulia Tyshchuk and William Wallace
BRiMS Poster		*Combining Visual Cognition Systems Using the Combinatorial Fusion Model*	Darius A. Mulia, Randy Clinton, Charles R. Skelsey, Lihan Yao and D. Frank Hsu
BRiMS Poster		*Exposing AI Configuration to Operator Control*	Kevin Dill and Phe Meas
BRiMS Poster		*The Virtual Employment Test Bed: An Immersive Synthetic Environment Allows Engineers to Test and Evaluate Material Solutions*	Robert Demarco, Gordon Cooke, John Riedener and Elizabeth Mezzacappa
BRiMS Poster		*An Improved Genetics-based Model of Emotion Diffusion on Facebook based on Similarity, Interactivity and Connectivity Principles*	Roche Lee Razonable and Kurt Junshean Espinosa
End of day	6:30 PM		

Friday, April 4

Welcome & Admin	8:00 AM	*Claudio Cioffi-Revilla (SBP) & Bill Kennedy (BRiMS)*	
Session 6	8:30 AM	*Session Chair: S. Jay Yang*	
Talk 1		A New Approach for Item Ranking Based on Review Scores Reflecting Temporal Trust Factor	Kazumi Saito, Masahiro Kimura, Kouzou Ohara, and Hiroshi Motoda
Talk 2		mFingerprint: Privacy-Preserving User Modeling with Multimodal Mobile Device Footprints	Haipeng Zhang, Zhixian Yan, Jun Yang, Emmanuel Munguia Tapia, and David J. Crandall
Talk 3		How Individuals Weigh Their Previous Estimates to Make a New Estimate in the Presence or Absence of Social Influence	Mohammad S. Jalali
Talk 4		Multi-objective Optimization for Multi-level Networks	Brandon Oselio, Alex Kulesza and Alfred Hero
Break	9:50 AM	*Refreshments: Muffins, rice cakes, fresh fruit, beverages*	
Session 7	10:20 AM	*Session Chair: Kevin Xu*	
Talk 1		Labeling Actors in Social Networks using a Heterogeneous Graph Kernel	Ngot Bui and Vasant Honavar
Talk 2		Who Will Follow a New Topic Tomorrow?	Biru Cui and Shanchieh Jay Yang
Talk 3		Identifying Users with Opposing Opinions in Twitter Debates	Ashwin Rajadesingan and Huan Liu
Talk 4		Two 1%s Don't Make a Whole: Comparing Simultaneous Samples from Twitter's Streaming API	Kenneth Joseph, Peter M. Landwehr, and Kathleen M. Carley
Lunch pickup/ re-arrange room	11:40 AM - 1:30 PM	*Lunch: assorted wraps, fruit, dessert, beverages -- pick up lunch in foyer, return to sponsors' panel & roundtable discussions with sponsors*	
Lunch & Funding panel	12:10 PM	*Funding Panel Session Chairs:* *Fahmida Chowdhury, Tisha Wiley*	
		Fahmida Chowdhury, NSF/SBE	
		Chris Clifton, NSF/CISE	
		Bethany Deeds, NIH/NIDA	
		Jason Matheny, IARPA	
		Stephen Marcus, NIH/ NIGMS	
		Erin Fitzgerald, DoD/Minerva	
Short break	1:30 PM		
Session 8	1:40 PM	*Session Chair: Bill Kennedy*	
Talk 1		System-subsystem Dependency Network for Integrating Multicomponent Data and Application to Health Sciences	Edward Ip, Shyh-Huei Chen, and Jack Rejeski
Talk 2		Integrating Epidemiological Modeling and Surveillance Data Feeds: A Kalman Filter-based Approach	Weicheng Qian, Nathaniel D. Osgood, and Kevin G. Stanley
Talk 3		Identifying Emergent Thought Leaders	Andrew Duchon and Emily S. Patterson
Talk 4		Human Development Dynamics: An Agent Based Simulation of Adaptive Heterogeneous Games and Social Systems	Mark Abdollahian, Zining Yang, and Patrick Neal
Break	3:00 PM	*Refreshments: sweets, snacks, fruit, beverages*	
Session 9 (BRiMS)	3:30 PM	*Session Chair: David Reitter*	
Talk 1		Simulating Network Behavioral Dynamics by Using a Multi-agent Approach Driven by ACT-R Cognitive Architecture	Oscar Javier Romero López
Talk 2		Modeling Proficiency in a Tailored, Situated Training Environment	Jeremiah T. Folsom-Kovarik, Charles Newton, Joshua Haley, and Robert E. Wray
Talk 3		Threat Density Map Modeling for Combat Simulations	Francisco Baez and Christian Darken
Talk 4		Rapid Adaptive Realistic Behavior Modeling Is Viable in Training	Margery Doyle and Antoinette Portrey
Conference Wrap-up	4:50 PM	*SBP 2015 preview Jeff Johnson*	
End of day	5:00 PM		