

Wednesday, July 5, 2017

Time Tutorial Sessions

Morning Tutorials
8:30am-11:30am

Matrix Methods for Social Network Analysis Data: Practical Applications of Excel

Nicole Fernandez

Collecting and Data Mining Online Text Data

Daniel Kercherner, Justin Littman, Laura Wrubel and David A. Broniatowski

Geo-spatial and Temporal Analytics and Visualization for Networks

L. Richard Carley

Afternoon Tutorials
12:00pm - 3:00pm

Social Cyber Forensics: Discovering Hidden Connections, Information Flows, and Information Actors in the Modern Information Environment

Nitin Agarwal, Samer Al-khateeb, and Muhammad Nihal Hussein

Integrating Simulation Modeling, Signal Processing and Machine Learning in the Study of Large Social Systems

Dong Wen

Network Analysis and Visualization using ORA

Jeff Reminga

Late Afternoon Tutorials
3:30pm - 6:30pm

Anti-discrimination Learning: A Casual Modeling-based Framework

Lu Zhang, Yongkai Wu, and Xintao Wu

Agent Based Simulation and Meta-Modeling

Geoffrey Morgan

Social Influence and Groups in Twitter

Kathleen M. Carley

SBP - BRiMS

2017 International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation

CONFERENCE CO-CHAIRS

Kathleen M. Carley

Carnegie Mellon University

Nitin Agarwal

University of Arkansas at Little Rock

PROGRAM COMMITTEE

Dongwon Lee

National Science Foundation

Yu-Ru Lin

University of Pittsburgh

Nathaniel Osgood

University of Saskatchewan

Robert Thomson

United States Military Academy

Kevin Xu

University of Toledo

LOCAL AREA CHAIR

David Broniatowski

The George Washington University

SBP-BRiMS

July 5 - 8, 2017

Washington, D.C.

2017 International Conference on
Social Computing, Behavioral-
Cultural Modeling & Prediction and
Behavior Representation in
Modeling and Simulation

The George Washington University
Lehman Auditorium
1922 F. Street NW
Washington, DC 20052

www.sbp-brims.org

Thursday, July 6

8:45-9:00am	Welcome by Conference Chair and George Washington Dean of Engineering David Dolling
Keynote 9:00-10:30am	Major General John Ferrari "Fake News and the Future of Warfare"
10:30-11:00am	Break

Dual Track Session 1

Session 1A – Talks on the Election

11:00-11:30am	Detection and Analysis of 2016 US Presidential Election Related Rumors on Twitter
11:30-12:00pm	Inferring Follower Preferences in the 2016 U.S. Presidential Primaries Using Sparse Learning

Session 1B – Demo Track #1 11:00am-12:00pm

12:00-12:10pm	Doctoral Consortium Members - 1 Minute Presentations
12:10-1:30pm	Lunch

Plenary Session 2 – Behavior Prediction

1:30-2:00pm	Spread of pathogens in the patient transfer network of US hospitals
2:00-2:30pm	Stigmergy-based modeling to discover urban activity patterns from positioning data
2:30-3:00pm	On Predicting Geolocation of Tweets using Convolutional Neural Network
3:00-3:30pm	Large-Scale Sleep Condition Analysis Using Selfies from Social Media
3:30-4:00pm	Break

Triple Track Session 3

	Session 3A – Cybersecurity	Session 3B – Methodology
4:00-4:15pm	Event-based Model Simulating the Change in DDoS Attack Trends after P/DIME Events	Automatic Political Actor Recommendation in Real-Time
4:15-4:30pm	Cyber-FIT: An Agent-Based Modelling Approach to Simulating Cyber Warfare	A Blockchain-Enabled Participatory Decision Support Framework
4:30-4:45pm	Hybrid Modeling of Cyber Adversary Behavior	Extracting Information from Negative Interactions in Multiplex Networks using Mutual Information
4:45-5:00pm	Using a Real-Time Cybersecurity Exercise Case Study to Understand Temporal Characteristics of Cyberattacks	Multi-layer Network Composition under a Unified Dynamical Process
5:00-5:15pm	Social Cyber Forensics Approach to Study Twitter's and Blogs' Influence on Propaganda Campaigns	Predicting Illiteracy with Standard Mobile Phone Logs
5:15-5:30pm	Understanding Russian Information Operations using Unsupervised Multilingual Topic Modeling	Agent-based Modeling Approach in Understanding Behavior During Disasters: Capturing and Measuring Response and Rescue Behavior in eBayanihan Disasters Management Platform

Session 3C – Challenge Presentations (*closed for videotaping*)

5:30-5:40pm	Introductions of Challenge Posters – 1 minute talks
5:40-8:00pm	Welcome Reception, Poster Presentations and Challenge Poster Competition

Friday, July 7

8:45-9:00am	Welcome and South Big Data Hub Introduction
Keynote 9:00-10:30am	Dr. Huan Liu - Arizona State University "From AI to AI: Acquiring Social Media Intelligence via "Big" Data"
10:30-10:50am	Break
10:50-12:00pm	Session 4 – Government Funding Panel
12:00-1:30pm	Lunch – Mentor/Mentee discussions, Business Meeting

Plenary Session 5 – Culture and Social

1:30-2:00pm	The Toll of Time on Refugee Identity: Perspectives from Agent-based Modeling and Simulation
2:00-2:30pm	Integrating Simulation and Signal Processing with Stochastic Social Kinetic Model
2:30-3:00pm	Simulating Population Behavior: Transportation Mode, Green Technology, and Global Warming
3:00-3:30pm	Modeling the Co-Evolution of Culture, Signs and Network Structure
1:30-3:30pm	Session 6C – Graduate Student Consortium #1
3:30-4:00pm	Break

Triple Track Session 6

	Session 6A – Health and Influence	Session 6B – Behavioral Models
4:00-4:15pm	Ideology Detection for Twitter Users via Link Analysis	Improving the Efficiency of Allocating Crowd Donations with Agent-Based Simulation Model
4:15-4:30pm	Temporal Analysis of Influence to Predict Users' Adoption in Online Social Networks	You All Look the Same To Me' An Agent Based Simulation Model of Out-Group Homogeneity
4:30-4:45pm	Identifying Smoking Using Smartphone Sensor Data and Multivariate Hidden Markov	Socio-cultural Cognitive Modeling
4:45-5:00pm	Prospective Detection of Foodborne Illness Outbreaks using Machine Learning Approaches	An Agent-Based Model of Posting behavior During Times of Social Unrest
5:15-5:30pm	From Cyber Space Opinion Leaders and the Spread of Anti-Vaccine Extremism to Physical Space Disease Outbreaks	Cultural Dimension Theory Based Simulations for US Army Personnel
4:00-5:30pm	Session 6C – Graduate Student Consortium #2	
6:00-8:00pm	No Host Reception Garden Cafe at the State Plaza Hotel in Foggy Bottom 2116 F St NW, Washington, DC 20037	

Registration begins daily at 8:00am

Saturday, July 8

8:45-9:00am	Welcome
--------------------	---------

Plenary Session

9:00-9:30am	Linking Twitter Sentiment and Event Data to Monitor Public Opinion of Geopolitical Developments and Trends
9:30-9:45am	Civic Engagement within China: Exploring the Influence of Social Network Sites Use, Media Exposure, Internet Censorship, Political Attitudes and Social Capital
9:45-10:00am	Social Theory, Intentionality, Machine Learning, and Predicting Human Action
10:00-10:15am	Blog Data Analytics Using Blogtrackers
10:15-10:30am	POLIS: Pattern of Life Integrated System
10:30-11:00am	Break

Plenary Session 7- Feature Selection

11:00-11:30am	ENWalk: Learning Network Features for Spam Detection in Twitter
11:30-12:00pm	A Cognitive Model of Feature Selection and Categorization for Autonomous Systems
12:00-1:30pm	Lunch

Plenary Session 8 – Influence and Support

1:30-2:00pm	Learning Network Dynamics from Tumblr: A Search for Influential Users
2:00-2:30pm	Gender Politics in the 2016 U.S. Presidential Election: A Computer Vision Approach
2:30-3:00pm	How Emotional Support and Informational Support Relate to Linguistic Alignment
3:00-3:30pm	A Parametric Study of Opinion Progression in a Divided Society
3:30-4:00pm	Break

Dual Track Session 9

Session 9A - Discourse

4:00-4:15pm	Is Word Adoption a Grassroots Process? An Analysis of Reddit Communities
4:15-4:30pm	Measuring Perceived Causal Relationships Between Narrative Events with a Crowdsourcing Application on Mturk
4:30-4:45pm	Hyperparameter Optimization for Predicting the Tolerance Level of Religious Discourse
4:45-5:00pm	Understanding Discourse Acts: Political Campaign Messages Classification on Facebook and Twitter

Session 9B – Demo Track #2 4:00-5:00pm

5:00-5:30pm	Closing Remarks/Adjourn
--------------------	--------------------------------