2020 SBP-BRiMS Conference Agenda
Monday October 19 – Thursday October 22

All times US Eastern. All sessions will be using Zoom. We will be using gather.town as a virtual meeting space. You can access the conference session links and keynote links and meet up with attendees during breaks.

***Conference Presenters should prepare to join the session 10 minutes prior to the scheduled time below.*.*

Monday October 19, 2020 – **Conference Day 1, Reception, & Keynote**

Time	Session 1	Session 2	Session 3
8:45am – 9:00am	Welcome	Welcome	Welcome

9:00am – 10:30am	**Human Modeling**
	• Modeling Interventions for Insider Threat *Luke Osterritter and Kathleen Carley*
	• Digital Trails of Work Stressors *Talha Oz*
	• The Human Resource Management Parameter Experimentation Tool *Carmen Iasiello, Andrew Crooks, and Sarah Wittman*
	• Homicidal Event Forecasting and Interpretable Analysis using Hierarchical Attention Model *Angeela Acharya, Jitin Krishnan, Desmond Arias and Huzefa Rangwala*
		Diffusion
		• Polarizing Tweets on Climate Change *Aman Tyagi, Matthew Babcock, Kathleen M. Carley and Douglas C. Sicker*
		• Controversial information diffuses faster and further in Reddit *Jasser Jasser, Ivan Garibay, Steve Scheinert and Alexander V. Mantzaris*
		• Breadth verses depth: the impact of tree structure on cultural influence *Rhodri L. Morris, Liam D. Turner, Roger M. Whitaker and Cheryl Giammanco*
		• A Game-Transformation-based Framework to Understand Initial Conditions and Outcomes in the context of Cyber-enabled Influence Operations (CIOs) *Girish Sreevatsan Nandakumar and Jose Padilla*
			Program and Challenge Design
			
			Moderator: Ariel M. Greenberg or Asmeret Naugle
			
			• Introduction and program overview *Adam Russell*
			
			• Simulations
			  ○ *(A) Andreas E Zufle*
			  ○ *(B) Scott Rager*
			  ○ *(C, Ed) David Pynadath*
			  ○ *(D) Van Parunak*
			
			• Discussion and lessons learned

10:30am – 10:50am	**BREAK**		

Time			

10:50am – 12:20pm	**Agent Modeling**
	• Towards Agent Validation of a Military Cyber Team Performance Simulation *Geoffrey Dobson and Kathleen Carley*
	• Development of a Hybrid Machine Learning Agent Based Model for Optimization and Interpretability *Paul Cummings and Andrew Crooks*
	• Modeling Forced Migrant Populations Using ABMs *Melonie Richey*
	• Development of a Hybrid Machine Learning Agent Based Model for Optimization and Interpretability *Paul Cummings and Andrew Crooks*
		Political Influence
		• Lying About Lying on Social Media: A Case Study of the 2019 Canadian Elections *Catherine King, Daniele Bellutta and Kathleen Carley*
		• PoliBERT: Classifying political social media messages with BERT *Shloak Gupta, Sarah Bolden, Jay Kachhadia, Ania Korsunska and Jennifer Stromer-Galley*
		• Canadian Federal Election and Hashtags That Do Not Belong *Thomas Magelinski, Mihovil Bartulovic and Kathleen M. Carley*
		• The devil is in the details: Studying the Influence and Content Diffusion Dynamics of Social Bots During 2014 Italian Mayoral Elections *Pujan Paudel and Andrew Sung*
			Performance and Evaluation
			Moderator: Ariel M. Greenberg, Ariel M. or Asmeret Naugle
			
			• Reminder of team roles and missions *Adam Russell*
			• Research teams
			  ○ *(A) James Evans*
			  ○ *(B) Aurora C. Schmidt*
			  ○ *(IV&V, Ed) Svitlana Volkova (EGDS)*
			• Evaluation and results analysis
			  ○ *(T&E, Ed) Asmeret Naugle*
			• Discussion and lessons learned

12:20pm – 1:20pm	**LUNCH BREAK**		
1:20pm – 2:50pm	**Group Detection** • Twitter Community Detection Using Principles of Dynamic Social Impact Theory *Prarthana Padia, Lucia Falzon, Aaron Harwood, Shanika Karunasekera and Michelle Vanni* • Community based Discussion Detection on Code Switched Social Media Content *Casey Doyle, Asmeret Naugle, Michael Bernard, Kiran Lakkaraju, Robert Kittinger, Matthew Sweitzer and Fred Rothganger* • Group Formation Theory at Multiple Scales *Joshua Uyheng and Kathleen M. Carley* • Bot Impacts on Public Sentiment and Community Structures: Comparative Analysis of Three Elections in the Asia-Pacific *Joshua Uyheng and Kathleen M. Carley*	**Political Influence 2** • Data Collection and Sensemaking from Telegram: A Case Study of Ukrainian Political Leaders Channels and Chat Groups *Tuja Khaund, Mainuddin Shaik and Nitin Agarwal* • A Structural Approach for Classifying Russian Social Media Narratives in the Baltic Region *Timur Chabuk, Adam Jonas and Sue Kase* • Social Network Analysis of Gobekli Tepe: Belief Propagation in 10th Millennium BC *Niloofar Bagheri-Jebelli and William Kennedy* • The Russian Strategy for Interference and Influence on Reddit: An Analysis of Infiltrating New Social Media Platforms *Christine Sowa and Kathleen Carley*	**Government Session**
2:50pm – 3:00pm	**BREAK**		
3:00pm – 4:30pm	**Keynote**		
4:30pm – 7:30pm	**Virtual Reception; Posters, Challenge Voting**		

Tuesday October 20, 2020 – **Conference Day 2**

Time	Session 1	Session 2	Session 3
8:45am – 9:00am	Welcome	Welcome	
9:00am – 10:30am	**Textual Analysis** • Artifacts of Crisis: Textual Analysis of Euromaidan _Thomas Magelinski, Zachary Stine, Thomas Marcoux, Nitin Agarwal and Kathleen M. Carley_ • MDR Cluster-Debias: A Nonlinear Word Embedding Debiasing Pipeline _Yuhao Du and Kenneth Joseph_ • Experiments with One-Class SVM and Word Embeddings for Document Classification _Jingnan Bi, Hyoungah Kim and Vito D'Orazio_ • Understanding Colonial Legacy and Environmental Issues in Senegal through Language Use _Kamwoo Lee, Jeanine Braithwaite and Michel Atchikpa_	**COVID 0** • TBD	
10:30am – 11:00am	**BREAK**		
11:00am – 12:30pm	**Government Sponsor Panel**	**COVID 1** • Non-Pharmaceutical Herd Immunity using Homemade Masks _Dale Brearcliffe_ • Preliminary Evaluation of Global Mass Gatherings Suspension in Saudi Arabia during the COVID-19 Pandemic _Sultanah Alshammari, Waleed Almutiry, Harsha Gwalani and Saeed Algarni_ • The Ebb and Flow of the COVID-19 Misinformation Themes _Thomas Marcoux, Esther Mead and Nitin Agarwal_ • The Coronavirus is a Bioweapon: Analysing Coronavirus Fact-Checked Stories _Lynnette Ng and Kathleen Carley_	**Graduate Consortium**
12:30pm – 2:00pm	**LUNCH BREAK**		**Mentor Lunch**

Time	Track 1	Track 2	Track 3
2:00pm – 3:30pm	**Human Modeling 2** • Learning Behavioral Representations from Wearable Sensors *Nazgol Tavabi, Homa Hosseinmardi, Jennifer Villatte, Andres Abeliuk, Shrikanth Narayanan, Emilio Ferrara and Kristina Lerman* • Predicting Cognitive Control in Older Adults using Deep Learning and EEG Data *Alina Vereshchaka, Fan Yang, Abhijit Suresh, Ibrahim L. Olokodana and Wen Dong* • Predicting Student Flight Performance with Multimodal Features *Zerong Xi, Olivia Newton, Greg McGowin, Gita Sukthankar, Steve Fiore and Kevin Oden* • Modeling decisions from experience among frequent and infrequent switchers via strategy-based and instance-based models *Neha Sharma and Varun Dutt*	**COVID 2** • Cultural Convergence: Insights into the behavior of misinformation networks on Twitter *Liz McQuillan, Erin McAweeney, Alicia Bargar and Alexander Ruch* • Investigating dynamics of COVID-19 spread and containment with agent-based modeling *Amirarsalan Rajabi, Alexander Mantzaris, Ece Mutlu and Ivan Garibay* • A Context-Aware Social Distancing Nudge for Public Health in Response to COVID-19 Pandemic *Shuyuan Mary Ho, Md Shamim Seraj, Kevin Yee, Xiamen Liu and Gordon Erlebacher* • Modeling, Estimating, and Minimizing Average New Infections of COVID-19 Based on Information Theory and Social Networks *Hussein Al-Hamdani, Mustafa Alassad, Nitin Agarwal and Seshadri Mohan*	**Graduate Consortium**
3:30pm – 4:00pm	**BREAK**		
4:00pm – 5:30pm	**Agent Modeling 2** • Utilizing Python for Agent-based Modeling: The Mesa Framework *Jacqueline Kazil, David Masad and Andrew Crooks* • Effects of Assortativity on Consensus Formation with Heterogeneous Agents *Ece Mutlu and Ivan Garibay* • The Grey Spot of Twitter Bot Moderation: Studying the traits of accounts who survived amongst the batch of suspended accounts *Pujan Paudel and Andrew Sung* • Multi-cause Discrimination Analysis Using Potential Outcomes *Wen Huang, Yongkai Wu and Xintao Wu*	**COVID 3** • Medical Literature Mining and Retrieval in a Conversational Setting *Souvik Das, Sougata Saha and Rohini Srihari* • Analytical Study of the Non-pharmaceutical Public Health Interventions to Control the Novel Coronavirus Disease 2019 (COVID-19) *Aseel Addawood, Sultanah Alshammari, Amal Alqahtani and Amal Almansour* • Modeling the Absence of Framing Effect among Indian and US populations in an Experience-based COVID-19 Disease Problem *Shashank Uttrani, Neha Sharma and Varun Dutt* • A Case Study of Scam Conversation on Twitter during the COVID-19 Pandemic *Sydney Zheng and Kathleen Carley*	

Wednesday October 21, 2020 – **Conference Day 3**

Time	Session 1	Session 2	Session 3
8:45am – 9:00am	Welcome	Welcome	
9:00am – 10:30am	**Information Operation** • Identifying Influencers by Countries in Twittersphere\ *Rong Pan, Guanqi Fang and Aleksey Panasyuk* • Strategic Information Operation in YouTube: The case of White Helmets • Optimizing Attention-Aware Opinion Seeding Strategies *Charles Martin, Dana Warmsley and Samuel Johnson* • On Countering Disinformation With Caution: Effective Inoculation Strategies and Others That Backfire Into Community Hyper-Polarization *Amirarsalan Rajabi, Chathika Gunaratne, Alexander V. Mantzaris and Ivan Garibay*	**COVID 4** • Cognitive Modeling for Computational Epidemiology *Peter Pirolli, Archna Bhatia, Konstantinos Mitsopoulos, Christian Lebiere and Mark Orr* • Modeling Protester Orchestration through Connective Action: A COVID-19 Lockdown Protest Case Study *Billy Spann, Nitin Agarwal, Oluwaseun Johnson and Esther Mead* • Systems Thinking and Modeling in Social Networks: A Case Study of Coronavirus Conspiracy Theories Challenges in Twitter network *Mustafa Alassad, Muhammad Nihal Hussain and Nitin Agarwal*	
10:30am – 10:50am	**BREAK**		
10:50am – 12:20pm	**Health** • Characterizing Sociolinguistic Variation in the Competing Vaccination Communities *Shahan Ali Memon, Aman Tyagi, David R. Mortensen and Kathleen M. Carley* • Critical spatial clusters for vaccine preventable diseases *Jose Cadena, Achla Marathe and Anil Kumar Vullikanti* • Deploying System Dynamics Models for Disease Surveillance in the Philippines *Joshua Uyheng, Christian E. Pulmano and Ma. Regina Justina Estuar* • The Rise and Fall of Humanitarian Citizen Initiatives: A simulation-based approach *Erika Frydenlund, Jose Padilla, Hanne Haaland and Hege Wallevik*	**COVID 5** • Exploring the Impact of Mandatory Remote Work during the COVID-19 Pandemic *Talha Oz and Andrew Crooks* • Network-Based Analysis of Early Pandemic Mitigation Strategies, Solutions, and Future Directions *Pegah Hozhabrierdi, Raymond Zhu, Maduakolam Onyewu and Sucheta Soundarajan* • Utilizing Topic Modeling and Social Network Analysis to Identify and Regulate Toxic COVID-19 Behaviors on YouTube *Adewale Obadimu, Esther Mead, Tuja Khaund, Maryetta Morris and Nitin Agarwal*	
12:20pm – 1:20pm	**LUNCH BREAK**		**Business Meeting**

| 1:20pm – 2:50pm | **Textual Analysis 2**
 • Beyond Words: Comparing Structure, Emoji Use, and Consistency Across Social Media Posts *Melanie Swartz, Andrew Crooks and Arie Croitoru*
 • Towards Understanding how Emojis Express Solidarity In Crisis Events *Samira Shaikh, Sashank Santhanam, Vidhushini Srinivasan and Khyati Mahajan*
 • Birds of a Feather Flock Together: Satirical News Detection via Language Model Differentiation *Yigeng Zhang, Fan Yang, Yifan Zhang, Eduard Dragut and Arjun Mukherjee*
 • Sentiment and Retweet Analysis of User Response for Early Fake News Detection *Uzoamaka Ezeakunne, Shuyuan Mary Ho and Xiuwen Liu*
 • Analyzing Moroccan Employment Stakeholder perceptions using Social Network Analysis & Text Analysis *Ibrahim Rahhal, Ghita Mezzour, Kathleen Carley and Ismail Kassou* | **Amplifying Messages**
 • Developing Graph Theoretic Techniques to Identify Amplification and Coordination Activities of Influential Sets of Users *Mustafa Alassad, Muhammad Nihal Hussain and Nitin Agarwal*
 • Detecting Online Hate Speech: Approaches Using Weak Supervision and Network Embedding Models *Michael Ridenhour, Arunkumar Bagavathi, Elaheh Raisi and Siddharth Krishnan*
 • Twitter is the Megaphone of Cross-Platform Messaging on the White Helmets *Sameera Horawalavithana, Kin Wai Ng and Adriana Iamnitchi*
 • Developing an Epidemiological Model to study Spread of Toxicity on YouTube *Adewale Obadimu, Esther Mead, Maryam Maleki and Nitin Agarwal* | |

Thursday October 22, 2020 - **Tutorials and Closing**

Time	Session 1	Session 2
8:30am – 11:30am	High Dimensional Network Analysis	YouTube Data Analytics: Revealing Computational Propaganda Techniques and Tactics
11:30am – 12:00pm	BREAK	
12:00pm – 3:00pm	Facebook and Reddit Data in ORA	Networked Time Series Analysis and Clustering
3:00pm – 3:30pm	BREAK	
3:30pm – 6:30pm	Dynamic and Spatial Networks	
6:30pm – 7:30pm	**Final Remarks and Awards**	