

Final Program of IEEE/ACM ASONAM 2019 and the Co-Located Events

Roughly, last 15% of the time assigned to each paper will be dedicated to Q/A period. For example, a 30 minutes time slot assigned to a paper means 25 minutes presentation and 5 minutes Q/A

Tuesday 27 August 2019 (Workshop- Poster/Demo/PhD forum)

Hours	Shaughnessy I	Shaughnessy II	Pinnacle I	Pinnacle II	Pinnacle III
07:30	Registration - (in the foyer outside of the Pinnacle Ballroom)				
8:30-10:30	READNet Workshop Session I Session Chair: Michele Coscia	SI Workshop Session Chair: Jalal Kawash			Tutorial I –Part I 8:30 -10:30
10:30-11:00	Coffee break - (Pinnacle Ballroom)				
11:00-12:30	READNet Workshop Session II Session Chair: Andrea De Salve	SNAST Workshop Session I Session Chair: Thirimachos Bourlai	SNAA Workshop Session I Session Chair: Piotr Bródka	Demo Track Session Chair: Tansel Ozyer	Tutorial I. Part II. 11:00 – 11:30 Tutorial II. Part I. 11:30 – 12:30
12:30-14:00	Lunch - (Pinnacle Ballroom)				
14:00-16:00	MSNDS Workshop Session I Session Chair: Min-Yuh Day	SNAST Workshop Session II Session Chair: Panagiotis Karampelas	SNAA Workshop Session II Session Chair: Piotr Bródka	Posters Madness Session Chair: Mohammad Tayebi	Tutorial II. Part II. 14:00 – 15:30 Tutorial III. Part I. 15:30 – 16:00
16:00-16:30	Coffee break - (Pinnacle Ballroom)				
16:30 – 18:30	MSNDS Workshop Session II Session Chair: Shih-Hung Wu			PhD Track Session Chair: Tansel Ozyer	Tutorial III. Part II.

Hours	Shaughnessy I	Shaughnessy II	Pinnacle I	Pinnacle II	Pinnacle III
19:30 – 22:00	Reception - (Pinnacle Ballroom)				

Tuesday 27 August 2019 - Tutorials Details

All totutorials will take place in *Pinnacle III*

Time	Tutorial Title	Instructor
8:30-10:30, and 11:00–11:30	Tutorial I: Knowledge Discovery in the social network era: An overview of (big) data analytics approaches for social networks	Elio Masciari, University Federico II of Naples, Italy
11:30–12:30 and 14:00–15:30	Tutorial II: Introduction to Social Network Analysis with NodeXL	Marc A.Smith, Social Media Research Foundation, Redwood City, CA
15:30–16:00 and 16:30–18:30	Tutorial III: Using RAPIDS for Accelerated Social Network Analysis	Bradley Rees and Corey Nolet, RAPIDS cuML Sr Researcher, NVIDIA, San Jose, CA

28th August (Main Conference)

Hours	Pinnacle I	Pinnacle II	Pinnacle III	Shaughnessy I	Shaughnessy II
07:30	Registration - (in the foyer outside of the Pinnacle Ballroom)				
09:00 - 09:30	Opening Session for ASONAM - (Pinnacle Ballroom)				
09:30 - 10:30	Keynote I <i>Graphons and Machine Learning: Modeling and Estimation of Sparse Networks at Scale</i> Jennifer Tour Chayes - Microsoft Research, Massachusetts, USA <i>Chair: Wei Chen - (Pinnacle Ballroom)</i>				
10:30-11:00	Coffee Break - (Pinnacle Ballroom)				
11:00 - 12:30	1A- Communities I Session Chair: Michele Coscia	1B- Misbehavior & Misinformation I Session Chair: Rahul Pandey	1C- Network Embedding Session Chair: Tyler Derr	Industrial Track Session I Session Chair: Neil Shah	FOSINT-SI Session I Session Chair: Mohammad Tayebi
12:30-14:00	Lunch - (Pinnacle Ballroom)				
14:00-16:00	2A- Information & Influence Diffusion I Session Chair: Elio Masciari	2B- Misbehavior & Misinformation II Session Chair: Roy Ka-Wei Lee	2C- Network Analysis with Machine Learning I Session Chair: Ashok Srinivasan	Industrial Track Session II Session Chair: Konstantinos Xylogiannopoulos	FOSINT-SI Session II Session Chair: Uwe Glässer
16:00-16:30	Coffee Break - (Pinnacle Ballroom)				
16:30 - 18:00	Panel - (Pinnacle Ballroom)				

29th August (Main Conference)

Hours	Pinnacle I	Pinnacle II	Pinnacle III	Shaughnessy I	Shaughnessy II
07:30	Registration - (in the foyer outside of the Pinnacle Ballroom)				
9:30-10:30	Keynote II: Friendship Paradox and Information Bias in Networks Kristina Lerman - University of Southern California, USA <i>Chair: Francesca Spezzano - (Pinnacle Ballroom)</i>				
10:30-11:00	Coffee Break - (Pinnacle Ballroom)				
11:00-12:30	3A - Communities II Session Chair: Xiaokui Xiao	3B - Social Media Analysis Session Chair: Sumeet Kumar	3C - Network Analysis with Machine Learning II Session Chair: Rahul Pandey	FAB- Session I Session Chair: Jon Rokne	FOSINT-SI Session III Session Chair: Francesca Spezzano
12:30-14:00	Lunch - (Pinnacle Ballroom)				
14:00 - 16:00	4A - Information & Influence Diffusion II Session Chair: Andrea Tagarelli	4B - Elections and Politics Session Chair: Dimitris Spiliotopoulos	4C - Network Analysis I Session Chair: Vachik Dave	FAB- Session II Session Chair: Panagiotis Karampelas	FOSINT-SI Session IV Session Chair: Andrew Park
16:00-16:30	Coffee Break - (Pinnacle Ballroom)				
16:30 - 18:00	5A - Recommendations Session Chair: Chang-Tien Lu	5B - Applications I Session Chair: Ashok Srinivasan	5C - Behavioral Modeling Session Chair: Ninareh Mehrabi	FAB- Session III Session Chair: Ismail Toroslu	Multidisciplinary- Session I Session Chair: Jalal Kawash
19:30—22:00	Conference Dinner - (Pinnacle Ballroom)				

30st August (Main Conference)

Hours	Pinnacle I	Pinnacle II	Pinnacle III	Shaughnessy I	Shaughnessy II
07:30	Registration - (in the foyer outside of the Pinnacle Ballroom)				
09:30 - 10:30	Keynote III: Graph Neural Networks and Applications Jie Tang - Tsinghua University, China Chair: Xiaokui Xiao - (Pinnacle Ballroom)				
10:30-11:00	Coffee Break - (Pinnacle Ballroom)				
11:00 - 12:30	6A - Network Algorithms Session Chair: Tyler Derr	6B - Network Modeling Session Chair: Vanessa Cedeno-Mieles	6C - Misinformation & Online Content Session Chair: Francesca Spezzano	HI-BI-BI Session I Session Chair: Jalal Kawash	Multidisciplinary- Session II Session Chair: Panagiotis Karampelas
12:30 - 14:00	Lunch - (Pinnacle Ballroom)				
14:00 - 16:00	7A - Modeling & Algorithms Session Chair: Peng Ni	7B - Applications II Session Chair: Daniel Zhang	7C - Network Analysis II Session Chair: Wei Chen	HI-BI-BI Session II Session Chair: Tansel Ozyer	Multidisciplinary- Session III Session Chair: Min-Yuh Day
16:10 - 16:30	Farewell - (Pinnacle Ballroom)				

Program of ASONAM 2019 Research Track

Session 1A - Communities I (11:00-12:30)

Michele Coscia	Discovering Communities of Community Discovery	Long Paper 11:00-11:30
Neda Zarayeneh and Ananth Kalyanaraman	A Fast and Efficient Incremental Approach toward Dynamic Community Detection	Long Paper 11:30-12:00
Young D. Kwon, Reza Hadi Mogavi, Ehsan UI Haq, Youngjin Kwon, Xiaojuan Ma and Pan Hui	Effects of Ego Networks and Communities on Self-Disclosure in an Online Social Network	Long Paper 12:00-12:30

Session 1B - Misbehavior & Misinformation I (11:00-12:30)

Courtland Vandam, Farzan Masrour, Pang-Ning Tan and Tyler Wilson	You have been CAUTE! Early Detection of Compromised Accounts on Social Media	Long Paper 11:00-11:30
Thai Le, Kai Shu, Maria D. Molina, Dongwon Lee, S. Shyam Sundar and Huan Liu	5 Sources of Clickbaits You Should Know! Using Synthetic Clickbaits to Improve Prediction and Distinguish between Bot-Generated and Human-Written Headlines	Long Paper 11:30-12:00
Limeng Cui, Suhang Wang and Dongwon Lee	SAME: Sentiment-Aware Multi-Modal Embedding for Detecting Fake News	Long Paper 12:00-12:30

Session 1C - Network Embedding (11:00-12:30)

Jundong Li, Liang Wu, Ruocheng Guo, Chenghao Liu and Huan Liu	Multi-Level Network Embedding with Boosted Low-Rank Matrix Approximation	Long Paper 11:00-11:30
Aynaz Taheri and Tanya Berger-Wolf	Predictive Temporal Embedding of Dynamic Graphs	Long Paper 11:30-12:00
Benedek Rozemberczki, Ryan Davies, Rik Sarkar and Charles Sutton	GEMSEC: Graph Embedding with Self Clustering	Long Paper 12:00-12:30

Session 2A - Information & Influence Diffusion I (14:00-16:00)

Antoine Tixier, Maria Rossi, Fragkiskos Malliaros and Jesse Read	Perturb and Combine to Identify Influential Spreaders in Real-World Networks	Long Paper 14:00-14:30
Yang Chen and Jiamou Liu	Becoming Gatekeepers Together with Allies: Collaborative Brokerage over Social Networks	Long Paper 14:30-15:00
Yu Zhang	Diversifying Seeds and Audience in Social Influence Maximization	Short Paper 15:00-15:20
Arash Ghayoori and Rakesh Nagi	Seed Investment Bounds for Viral Marketing under Generalized Diffusion	Short Paper 15:20-15:40
Xiao Yang, Seungbae Kim and Yizhou Sun	How Do Influencers Mention Brands in Social Media? Sponsorship Prediction of Instagram Posts	Short Paper 15:40-16:00

Session 2B - Misbehavior & Misinformation II (14:00-16:00)

Sooji Han, Jie Gao and Fabio Ciravegna	Neural Language Model Based Training Data Augmentation for Weakly Supervised Early Rumor Detection	Long Paper 14:00-14:30
Amir Pouran Ben Veyseh, My T. Thai, Thien Huu Nguyen and Dejing Dou	Rumor Detection in Social Networks via Deep Contextual Modeling	Long Paper 14:30-15:00
Wataru Kudo, Mao Nishiguchi and Fujio Toriumi	Fraudulent User Detection on Rating Networks Based on Expanded Balance Theory and GCNs	Short Paper 15:00-15:20
Udit Arora, William Scott Pakka and Tanmoy Chakraborty	Multitask Learning for Blackmarket Tweet Detection	Short Paper 15:20-15:40
Mohammad Raihanul Islam, Sathappan Muthiah and Naren Ramakrishnan	RumorSleuth: Joint Detection of Rumor Veracity and User Stance	Short Paper 15:40-16:00

Session 2C - Network Analysis with Machine Learning I (14:00-16:00)

Aravind Sankar, Xinyang Zhang and Kevin Chang	Meta-GNN: Metagraph Neural Network for Semi-supervised learning in Attributed Heterogeneous Information Networks	Long Paper 14:00-14:30
Suhansanu Kumar, Heting Gao, Changyu Wang, Hari Sundaram and Kevin Chang	Hierarchical Multi-Armed Bandits for Discovering Hidden Populations	Long Paper 14:30-15:00
Yang Zhang, Hongxiao Wang, Daniel Zhang, Yiwen Lu and Dong Wang	RiskCast: Social Sensing based Traffic Risk Forecasting via Inductive Multi-View Learning	Short Paper 15:00-15:20
Sumeet Kumar and Kathleen M. Carley	What to Track on the Twitter Streaming API? A Knapsack Bandits Approach to Dynamically Update the Search Terms	Short Paper 15:20-15:40
Renhao Cui, Gagan Agrawal and Rajiv Ramnath	Tweets Can Tell: Activity Recognition using Hybrid Long Short-Term Memory Model	Short Paper 15:40-16:00

Session 3A - Communities II (11:00-12:30)

Yulong Pei, George Fletcher and Mykola Pechenizkiy	Joint Role and Community Detection in Networks via L2,1 Norm Regularized Nonnegative Matrix Tri-Factorization	Long Paper 11:00-11:30
Jean Marie Tshimula, Belkacem Chikhaoui and Shengrui Wang	HAR-search: A Method to Discover Hidden Affinity Relationships in Online Communities	Long Paper 11:30-12:00
Domenico Mandaglio and Andrea Tagarelli	Dynamic Consensus Community Detection and Combinatorial Multi-Armed Bandit	Short Paper 12:00-12:20

Session 3B - Social Media Analysis (11:00-12:20)

Marija Stanojevic, Jumanah Alshehri and Zoran Obradovic	Surveying public opinion using label prediction on social media data	Long Paper 11:00-11:30
Taoran Ji, Xuchao Zhang, Nathan Self, Kaiqun Fu, Chang-Tien Lu and Naren Ramakrishnan	Feature Driven Learning Framework for Cybersecurity Event Detection	Long Paper 11:30-12:00
Virgile Landeiro and Aron Culotta	Collecting Representative Social Media Samples from a Search Engine by Adaptive Query Generation	Short Paper 12:00-12:20

Session 3C - Network Analysis with Machine Learning II (11:00-12:20)

Mahsa Ghorbani, Mahdiah Soleymani Baghshah and Hamid R. Rabiee	MGCN: Semi-supervised Classification in Multi-layer Graphs with Graph Convolutional Networks	Short Paper 11:00-11:20
Vachik Dave, Baichuan Zhang, Pin-Yu Chen and Mohammad Hasan	Neural-Brane: An inductive approach for attributed network embedding	Short Paper 11:20-11:40
Kun Tu, Jian Li, Don Towsley, Dave Braines and Liam Turner	gl2vec: Learning Feature Representation Using Graphlets for Directed Networks	Short Paper 11:40-12:00
Caleb Belth, Fahad Kamran, Donna Tjandra and Danai Koutra	When to Remember Where You Came from: Node Representation Learning in Higher-order Networks	Short Paper 12:00-12:20

Session 4A - Information & Influence Diffusion II (14:00-16:00)

Soumajyoti Sarkar, Ashkan Aleali, Paulo Shakarian, Mika Armenta, Danielle Sanchez and Kiran Lakkaraju	Impact of Social Influence on Adoption Behavior: An Online Controlled Experimental Evaluation	Long Paper 14:00-14:30
Thiago Silva, Alberto Laender and Pedro Vaz de Melo	Characterizing Knowledge-Transfer Relationships in Dynamic Attributed Networks	Long Paper 14:30-15:00
Emily Fischer, Souvik Ghosh and Gennady Samorodnitsky	Epidemic Threshold and Lifetime Distribution for Information Diffusion on Simultaneously Growing Networks	Long Paper 15:00-15:30
Jianjun Luo, Xinyue Liu and Xiangnan Kong	Competitive Opinion Maximization in Social Networks	Long Paper 15:30-16:00

Session 4B - Elections and Politics (14:00-15:50)

Huyen Le, Bob Boynton, Zubair Shafiq and Padmini Srinivasan	A Postmortem of Suspended Twitter Accounts in the 2016 U.S. Presidential Election	Long Paper 14:00-14:30
Hamid Karimi, Tyler Derr, Aaron Brookhouse and Jiliang Tang	Multi-Factor Congressional Vote Prediction	Long Paper 14:30-15:00
Indu Manickam, Andrew Lan, Gautam Dasarthy and Richard Baraniuk	Tracing Political Ideology on Twitter During the 2016 U.S. Presidential Election	Long Paper 15:00-15:30
Alexandru Topirceanu and Radu-Emil Precup	A Novel Methodology for Improving Election Poll Prediction Using Time-Aware Polling	Short Paper 15:30-15:50

Session 4C - Network Analysis I (14:00-16:00)

Michele Coscia and Luca Rossi	The Impact of Projection and Backboning on Network Topologies	Long Paper 14:00-14:30
Katchaguy Areekijserree and Sucheta Soundarajan	Measuring the Sampling Robustness of Complex Networks	Long Paper 14:30-15:00
Xiuwen Zheng and Amarnath Gupta	Social Network of Extreme Tweeters: A Case Study	Short Paper 15:00-15:20
Laurence Brandenberger, Giona Casiraghi, Vahan Nanumyan and Frank Schweitzer	Quantifying Triadic Closure in Multi-Edge Social Networks	Short Paper 15:20-15:40
Seyed Amin Mirlohi Falavarjani, Ebrahim Bagheri, Jelena Jovanovic and Ali A. Ghorbani	On the Causal Relation between Users' Real-World Activities and their Affective Processes	Short Paper 15:40-16:00

Session 5A - Recommendations (16:30-18:00)

Chia-Wei Chen, Sheng-Chuan Chou, Chang-You Tai and Lun-Wei Ku	PGA: Phrase-Guided Attention Web Article Recommendation for Next Clicks and Views	Long Paper 16:30-17:00
Deqing Yang, Ziyi Wang, Junyang Jiang and Yanghua Xiao	Knowledge Embedding towards the Recommendation with Sparse User-item Interactions	Long Paper 17:00-17:30
Daniel Zhang, Bo Ni, Qiyu Zhi, Thomas Plummer, Qi Li, Hao Zheng, Qingkai Zeng, Yang Zhang and Dong Wang	Through the Eyes of A Poet: Classical Poetry Recommendation with Visual Input on Social Media	Long Paper 17:30-18:00

Session 5B - Applications I (16:30-18:00)

Henry Dambanemuya, Madhav Joshi and Ágnes Horvát	Network Perspective on the Efficiency of Peace Accords Implementation	Long Paper 16:30-17:00
Pradyumna Prakhar Sinha, Rohan Mishra, Ramit Sawhney and Rajiv Ratn Shah	ASASNet - Exploiting Linguistic Homophily for Suicidal Ideation Detection in Social Media	Short Paper 17:00-17:20
Sreeja Nair, Adriana Iamnitchi and John Skvoretz	Promoting Social Conventions across Polarized Networks: An Empirical Study	Short Paper 17:20-17:40
Mayank Kejriwal and Peilin Zhou	Low-supervision urgency detection and transfer in short crisis messages	Short Paper 17:40-18:00

Session 5C - Behavioral Modeling (16:30-17:50)

Vanessa Cedeno-Mieles, Zhihao Hu, Yihui Ren, Xinwei Deng, Abhijin Adiga, Christopher Barrett, Saliya Ekanayake, Gizem Korkmaz, Chris Kuhlman, Dustin Machi, Madhav Marathe, S. S. Ravi, Brian Goode, Naren Ramakrishnan, Parang Saraf, Nathan Self, Noshir Contractor, Joshua Epstein and Michael Macy	Mechanistic and Data-Driven Agent-Based Models to Explain Human Behavior in Online Networked Group Anagram Games	Long Paper 16:30-17:00
Binxuan Huang and Kathleen Carley	A Large-Scale Empirical Study of Geotagging Behavior on Twitter	Long Paper 17:00-17:30
Rahul Pandey, Carlos Castillo and Hemant Purohit	Modeling Human Annotation Errors to Design Bias-Aware Systems for Social Stream Processing	Short Paper 17:30-17:50

Session 6A - Network Algorithms (11:00-12:20)

Peng Ni, Masatoshi Hanai, Wen Jun Tan and Wentong Cai	Efficient Closeness Centrality Computation in Time-Evolving Graphs	Long Paper 11:00-11:30
Huda Nassar, Austin Benson and David Gleich	Pairwise Link Prediction	Long Paper 11:30-12:00
Frédéric Simard	On computing distances and latencies in Link Streams	Short Paper 12:00-12:20

Session 6B - Network Modeling (11:00-12:20)

Chen Avin, Zvi Lotker, Yinon Nahum and David Peleg	Random Preferential Attachment Hypergraphs	Long Paper 11:00-11:30
Julian Müller and Ulrik Brandes	The Evolution of Roles	Long Paper 11:30-12:00
Haripriya Chakraborty and Liang Zhao	Modeling the Dynamics of Resource Exchange Networks	Short Paper 12:00-12:20

Session 6C - Misinformation & Online Content (11:00-12:20)

Jesper Holmström, Daniel Jonsson, Filip Polbratt, Olav Nilsson, Linnea Lundström, Sebastian Ragnarsson, Anton Forsberg, Karl Andersson and Niklas Carlsson	Do we Read what we Share? Analyzing the Click Dynamic of News Article's Shared on Twitter	Short Paper 11:00-11:20
Alexandre M. Sousa, Jussara M. Almeida and Flavio Figueiredo	Analyzing and Modeling User Curiosity in Online Content Consumption: A LastFM Case Study	Short Paper 11:20-11:40
Bhavtosh Rath, Wei Gao and Jaideep Srivastava	Evaluating Vulnerability to Fake News in Social Networks: A Community Health Assessment Model	Short Paper 11:40-12:00
Kai Shu, Xinyi Zhou, Suhang Wang, Reza Zafarani and Huan Liu	The Role of User Profiles for Fake News Detection	Short Paper 12:00-12:20

Session 7A - Modeling & Algorithms (14:00-15:50)

Malik Magdon-Ismail and Kshiteesh Hegde	The Intrinsic Scale Of Networks Is Small	Long Paper 14:00-14:30
Farzan Masrour Shalmani, Pang-Ning Tan and Abdol-Hosseini Esfahani	OPTANE: An OPTimal Transport Algorithm for Network Alignment	Short Paper 14:30-14:50
Feiyu Long, Nianwen Ning, Chenguang Song and Bin Wu	Strengthening Social Networks Analysis by Networks Fusion	Short Paper 14:50-15:10
Sai Kiran Narayanaswami, Balaraman Ravindran and Venkatesh Ramaiyan	Generalized Random Surfer-Pair Models	Short Paper 15:10-15:30
Yulong Pei, Jianpeng Zhang, George Fletcher and Mykola Pechenizkiy	Infinite Motif Stochastic Blockmodel for Role Discovery in Networks	Short Paper 15:30-15:50

Session 7B - Applications II (14:00-16:00)

Rashid Tahir, Fareed Zaffar, Faizan Ahmad, Christo Wilson, Hammas Saeed and Shiza Ali	Bringing the Kid back into YouTube Kids: Detecting Inappropriate Content on Video Streaming Platforms	Short Paper 14:00-14:20
Pamela Thomas, Rachel Krohn and Tim Weninger	Dynamics of Team Library Adoptions: An Exploration of GitHub Commit Logs	Short Paper 14:20-14:40
Lea Baumann and Sonja Utz	How to encourage people to build diverse business networks?	Short Paper 14:40-15:00
Kaustav Basu and Arunabha Sen	Monitoring Individuals in Drug Trafficking Organizations: A Social Network Analysis	Short Paper 15:00-15:20
Victor S. Bursztyn, Larry Birnbaum and Doug Downey	Thousands of Small, Constant Rallies: A Large-Scale Analysis of Partisan WhatsApp Groups	Short Paper 15:20-15:40
Yo-Der Song, Benjamin Farrelly, Yiyang Sun, Mingwei Gong and Aniket Mahanti	Measurement and Analysis of an Adult Video Streaming Service	Short Paper 15:40-16:00

Session 7C - Network Analysis II (14:00-16:00)

Mitchell Goist, Ted Hsuan Yun Chen and Christopher Boylan	Reconstructing and Analyzing the Transnational Human Trafficking Network	Long Paper 14:00-14:30
Pujan Paudel, Trung Nguyen and Amartya Hatua	How the Tables have Turned: Studying the New Wave of Social Bots on Twitter Using Complex Network Analysis Techniques	Long Paper 14:30-15:00
Ninareh Mehrabi, Fred Morstatter, Nanyun Peng and Aram Galstyan	Debiasing Community Detection: The Importance of Lowly Connected Nodes	Short Paper 15:00-15:20
Obaida Hanteer and Luca Rossi	The Meaning of Dissimilar: An Evaluation of Various Similarity Quantification Approaches Used to Evaluate Community Detection Solutions	Short Paper 15:20-15:40
Mahboubeh Ahmadalinezhad, Masoud Makrehchi and Neil Seward	Lineup Performance Prediction Through Network Analysis	Short Paper 15:40-16:00

ASONAM 2019 Panel

16:30 - 18:00

Social Influence in Our Society

Moderator:

Francesca Spezzano, Boise State University, USA

Panelists:

Kristina Lerman, University of Southern California, USA

Jie Tang, Tsinghua University, China

Wei Chen, Microsoft Research, China

Andrea Tagarelli, University of Calabria, Italy

Abstract

The main theme of this panel will focus on defining social influence, present research topics related to social influence, and discuss its impacts in our current society. These include, but are not limited to, people's behavior during crises (e.g., due to natural disasters), health, elections, misinformation, and privacy. Further, the panel will discuss research challenges related to social influence, how research in social influence can be applied for social good, and how the side effects of social influence can be mitigated.

Industrial Track Program

Industrial Track Session I (11:00-12:30)

Ankit Kumar Saw	Beauty lies in the face of the beholder: A bi-channel CNN architecture for attractiveness modelling in matrimony	11:00-11:25
John Piorkowski, Ian McCulloh	Examining MOOC superposter behavior using social network analysis	11:25-11:50
Alireza Pourali, Fattane Zarrinkalam, Ebrahim Bagheri	Neural Embedding Features for Point-of-Interest Recommendation	11:50-12:15

Industrial Track Session I (14:00-16:00)

Shreya Jain, Dipankar Niranjana, Hemank Lamba, Neil Shah, Ponnurangam Kumaraguru	Characterizing and Detecting Livestreaming Chatbots	14:00-14:25
Shin-Ying Huang, Yen-Wen Huang, Ching-Hao Mao	A multi-channel cybersecurity news and threat intelligent engine - SecBuzzer	14:25-14:50
Yang Zhang, Xiangyu Dong, Daniel Zhang, Dong Wang	A Syntax-based Learning Approach to Geo-locating Abnormal Traffic Events using Social Sensing	14:50-15:15
Yingtong Dou and Philip Yu	Uncovering Download Fraud Activities in Mobile App Market	15:15-15:40

Program of Multidisciplinary Track

Multidisciplinary Track Session I (16:30-18:00)

Apratim Das, Mike Drakos, Alex Aravind and Darwin Horning	Water Governance Network Analysis using Graphlet Mining	16:30-16:50
Michelle Bowman and Subrata Acharya	Risk Assessment of Pharmacies & Electronic Prescriptions	16:50-17:10
Meysam Ghaffari, Ashok Srinivasan, Anuj Mubayi, Xiuwen Liu and Krishnan Viswanathan	Next-Generation High-Resolution Vector-Borne Disease Risk Assessment	17:10-17:30
Dany Perwita Sari and Yun-Shang Chiou	Transformation in Architecture and Spatial Organization at Javanese house	17:30-17:50
Marcell Nagy and Roland Molontay	On the Structural Properties of Social Networks and their Measurement-calibrated Synthetic Counterparts	17:50-18:10

Multidisciplinary Track Session II (11:00-12:30)

Maria Camila Rivera and Subrata Acharya	FastestER: A Web Application to enable effective Emergency Department Service	11:00-11:20
Abigail Garrett and Naeemul Hassan	Understanding the Silence of Sexual Harassment Victims Through the #WhyIDidntReport Movement	11:20-11:40
Naeemul Hassan, Manash Kumar Mandal, Mansurul Bhuiyan, Aparna Moitra and Syed Ishtiaque Ahmed	Can Women Break the Glass Ceiling?: An Analysis of #MeToo Hashtagged Posts on Twitter	11:40-12:00
Roland Molontay and Marcell Nagy	Two Decades of Network Science - as seen through the co-authorship network of network scientists	12:00-12:20
Apratim Das, Alex Aravind and Mark Dale	Algorithm and Application for Signed Graphlets	12:20-12:40

Multidisciplinary Track Session III (14:00-16:00)

Soumajyoti Sarkar, Paulo Shakarian, Mika Armenta, Danielle Sanchez and Kiran Lakkaraju	Can social influence be exploited to compromise security: An online experimental evaluation	14:00-14:20
Dionisios Soiroopoulos, Ifigeneia Georgoula and Christos Bilanakos	Optimal Influence Strategies in an Oligopolistic Competition Network Environment	14:20-14:40
Arunkumar Bagavathi, Pedram Bashiri, Shannon Reid, Matthew Phillips and Siddharth Krishnan	Examining Untempered Social Media: Analyzing Cascades of Polarized Conversations	14:40-15:00
Fernando Henrique Calderon Alvarado, Li-Kai Cheng, Ming-Jen Lin, Yen Hao Huang and Yi-Shin Chen	Content-Based Echo Chamber Detection on Social Media Platforms	15:00-15:20
Mattia Gasparini, Giorgia Ramponi, Marco Brambilla and Stefano Ceri	Assigning Users to Domains of Interest Based on Content and Network Similarity with Champion Instances	15:20-15:40
Shuo Zhang and Mayank Kejriwal	Concept Drift in Bias and Sensationalism Detection: An Experimental Study	15:40-16:00

PhD Track Program

PhD Track Session (16:30-18:30)

Johanna M. Werz, Valerie Varney and Ingrid Isenhardt	The curse of self-presentation: Looking for career patterns in online CVs	16:30-16:55
Henry Dambanemuya and Agnes Horvat	Network-Aware Multi-Agent Simulations of Herder-Farmer Conflicts	16:55-17:20
Pallavi Jain, Robert Ross and Bianca Schoen Phelan	Estimating Distributed Representation Performance in Disaster-Related Social Media Classification	17:20-17:45
Renny Márquez, Richard Weber and André C.P.L.F. de Carvalho	A non-negative matrix factorization approach to update communities in temporal networks using node features	17:45-18:10
Christian Zingg, Giona Casiraghi, Giacomo Vaccario and Frank Schweitzer	What is the Entropy of a Social Organization?	18:10-18:35

Posters Madness Session

Posters Madness Session (14:00-16:00)

Chung-Chi Chen, Hen-Hsen Huang and Hsin-Hsi Chen	Next Cashtag Prediction in the Social Trading Platform with Auxiliary Tasks
David Spence, Christopher Inskip, Novi Quadrianto and David Weir	Quantification Under Class-Conditional Dataset Shift
Dipanjoyoti Paul, Rahul Kumar, Sriparna Saha and Jimson Mathew	Online Feature Selection for Multi-label Classification in Multi-objective Optimization Framework
Katchaguy Areekijserree, Yuzhe Tang and Sucheta Soundarajan	Computing Node Clustering Coefficients Securely
Liang Feng, Qianchuan Zhao and Cangqi Zhou	An Efficient Method to Find Communities in K-partite Networks
Maryam Ramezani, Mina Rafiei, Soroush Omranpour and Hamid R. Rabiee	News Labeling as Early as Possible: Real or Fake?
Masaomi Kimura	CAB-NC: The Correspondence Analysis Based Network Clustering Method
Meysam Ghaffari, Ashok Srinivasan and Xiuwen Liu	High-resolution home location prediction from tweets using deep learning with dynamic structure
Parham Hamouni, Taraneh Khazaei and Ehsan Amjadian	TF-MF: Improving Multiview Representation for Twitter User Geolocation Prediction
Shalini Priya, Saharsh Singh, Sourav Kumar Dandapat, Kripabandhu Ghosh and Joydeep Chandra	Identifying Infrastructure Damage during Earthquake using Deep Active Learning
Taha Hassan, Bob Edmison, Larry Cox, Matthew Louvet and Daron Williams	Exploring the Context of Course Rankings on Online Academic Forums
Vivek Singh and Connor Hofenbitzer	Fairness across Network Positions in Cyberbullying Detection Algorithms
Zhou Yang, Long Nguyen and Fang Jin	Opioid Relapse Prediction with GAN
Adrien Benamira, Benjamin Devillers, Etienne Lesot, Ayush K. Rai, Manal Saadi and Fragkiskos Malliaros	Semi-Supervised Learning and Graph Neural Networks for Fake News Detection

Demo's Track Program

Demo's Track Session (11:00-12:30)

Adewale Obadimu, Muhammad Nihal Hussain and Nitin Agarwal	Blog Data Analytics Using Blogtrackers	11:00-11:15
Mayank Kejriwal and Peilin Zhou	SAVIZ: Interactive Exploration and Visualization of Situation Labeling Classifiers over Crisis Social Media Data	11:15-11:30
Thomas Marcoux, Nitin Agarwal, Adewale Obadimu and Nihal Hussain	Understanding Information Operations using YouTubeTracker	11:30-11:45
Trang Ha, Quyen Hoang and Kyumin Lee	Building a Task Blacklist for Online Social Platforms	11:45-12:00
Ying Zhao, Charles C. Zhou and Sihui Huang	Theory and Use Case of Game-theoretic Lexical Link Analysis	12:00-12:15

FOSINT-SI Symposium Program

FOSINT-SI Session I (11:00-12:30)

Zoheb Borbora, Arpita Chandra, Ponnurangam Kumaraguru and Jaideep Srivastava	On Churn and Social Contagion	Regular Paper
Tor Berglind, Lisa Kaati and Bjorn Pelzer	Levels of Hate in Online Environments	Regular Paper
Anu Shrestha and Francesca Spezzano	Online Misinformation: From the Deceiver to the Victim	Short Paper
Justin Song, Valerie Spicer, Andrew Park, Herbert H. Tsang and Patricia L. Brantingham	Computational Method for Identifying the Boundaries of Crime with Street Profile and Discrete Calculus	Short Paper

FOSINT-SI Session II (14:00-16:00)

David Skillicorn, Queen`s University, Canada	Online Language as a Lens for Open-source Intelligence	FOSINT-SI Keynote (14:00-15:00)
Vivin Paliath and Paulo Shakarian	Reasoning about Sequential Cyberattacks	Best Paper Candidate
Shao-Fang Wen, Mazaher Kianpour and Stewart Kowalski	An Empirical Study of Security Culture in Open Source Software Communities	Best Paper Candidate

FOSINT-SI Session III (11:00-12:30)

Avishek Bose, Vahid Behzadan, Carlos Aguirre and William Hsu	A Novel Approach for Detection and Ranking of Trendy and Emerging Cyber Threat Events in Twitter Streams	Regular Paper
Aditya Pingle, Aritran Piplai, Sudip Mittal, Anupam Joshi, James Holt and Richard Zak	RelExt: Relation Extraction using Deep Learning Approaches for Cybersecurity Knowledge Graph Improvement	Regular Paper
Konstantinos Xylogiannopoulos, Panagiotis Karampelas, Reda Alhadj	Text Mining for Malware Classification Using Multivariate All Repeated Patterns Detection	Regular Paper

FOSINT-SI Session IV (14:00-16:00)

Mohammed Almkaynizi, Malay Shah and Paulo Shakarian	A Hybrid KRR-ML Approach to Predict Malicious Email Campaigns	Short Paper
Mohammed Rashed, John Piorkowski and Ian Mcculloh	Evaluation of Extremist Cohesion in a Darknet Forum Using ERGM and LDA	Short Paper
João Evangelista, Domingos Napolitano, Márcio Romero and Renato Sassi	Open Source Intelligence: A Bibliometric Study	Short Paper
Emily Alfs, Doina Caragea, Dewan Chaulagain, Sankardas Roy, Nathan Albin and Pietro Poggi-Corradini	Identifying Android Malware Using Network-Based Approaches	Short Paper
Choukri Djellali, Mehdi Adda and Mohamed Tarik Moutacalli	A Comparative Study to Deep Learning for Pattern Recognition, By using Online and Batch Learning Taking Cybersecurity as a case	Short Paper

FAB Symposium Program

FAB Session I (11:00-12:30)

Carson Leung	Flexible Compression of Big Data	Full Paper
Konstantinos Xylogiannopoulos, Panagiotis Karampelas and Reda Alhajj	Multivariate Motif Detection in Local Weather Big Data	Full Paper
Sirui Sun, Bin Wu, Zixing Zhang, Nianwen Ning and Bai Wang	A Hierarchical Insurance Recommendation Framework Using GraphOLAM Approach	Full Paper
Ahmet Anıl Müngen, Emre Doğan and Mehmet Kaya	Text Generation with Diversified Source Literature Review	Short Paper

FAB Session II (14:00-16:00)

Emanuela Todeva, David Knoke and Donka Keskinova	Multi-Stage Clustering with Complementary Structural Analysis of 2-Mode Networks	Full Paper
Tung Nguyen, Li Zhang and Aron Culotta	Estimating Tie Strength in Follower Networks to Measure Brand Perceptions	Full Paper
Mahendra Piraveenan, Sheung Yat Law and Dharshana Kasthirirathne	Placement matters in making good decisions sooner: the influence of topology in reaching public utility thresholds	Full Paper
Rich Takacs and Ian Mcculloh	Dormant Bots in Social Media: Twitter and the 2018 U.S. Senate Election	Full Paper
Konstantinos Xylogiannopoulos	Exhaustive Exact String Matching: The Analysis of the Full Human Genome	Full Paper

FAB Session III (16:30-18:00)

Ahmet Engin Bayrak and Faruk Polat	Reducing Features to Improve Link Prediction Performance in Location Based Social Networks, Non-Monotonically Selected Subset from Feature Clusters	Full Paper
Lihl Idan and Joan Feigenbaum	Show me your friends, and I will tell you whom you vote for: Predicting voting behavior in social networks	Full Paper
Esen Tutaysalgir, Pinar Karagoz and Ismail Toroslu	Clustering based Personality Prediction on Turkish Tweets	Full Paper
Sharon Grubner, Ian McCulloh and John Piorkowski	Social Media as a Main Source of Customer Feedback – Alternative to Customer Satisfaction Surveys	Short Paper

Program of HI-BI-BI Program

HI-BI-BI Symposium Session I (11:00-12:30)

Joseph De Guia, Madhavi Devaraj and Carson Leung	DeepGx: Deep Learning Using Gene Expression for Cancer Classification	Full Paper
Hanane Grissette and El Habib Nfaoui	Daily life patient's Sentiment Analysis model based on well-encoded embedding dictionary for related-medication text	Full Paper
Hüseyin Vural, Mehmet Kaya and Reda Alhajj	A Model Based on Random Walk with Restart to Predict CircRNA-Disease Associations on Heterogeneous Network	Short Paper
Carmela Comito, Agostino Forestiero and Giuseppe Papuzzo	A clinical decision support framework for automatic disease diagnoses	Short Paper

HI-BI-BI Symposium Session II (14:00-16:00)

Krunal Dhiraj Patel, Andrew Heppner, Gautam Srivastava and Vijay Mago	Analyzing Use of Twitter by Diabetes online Community	Full Paper
Anu Shrestha and Francesca Spezzano	Detecting Depressed Users in Online Forums	Full Paper
Farahnaz Golrooy Motlagh, Saeede Shekarpour Shekarpour, Amit Sheth, Thirunarayan Krishnaprasad and Michael L. Raymer	Predicting Public Opinion on Drug Legalization: Social Media Analysis and Consumption Trends	Full Paper
Hankyu Jang, Samuel Justice, Philip M. Polgreen, Alberto M. Segre, Daniel K. Sewell and Sriram V. Pemmaraju	Evaluating Architectural Changes to Alter Pathogen Dynamics in a Dialysis Unit	Full Paper

READNet Workshop Program

READNet Workshop Session I (08:30-10:30)

Workshop Opening	Chairs: Andrea De Salve, Michele Coscia	8:30-8:45
Keynote Speaker: Michele Coscia	Benchmarking API Costs of Network Sampling Strategies	8:45-9:40
Meisam Hejazinia, Pavlos Mitsoulis-Ntompos and Serena Zhang	Deep Personalized Re-targeting	9:40-10:05
Mariella Bonomo, Gaspare Ciaccio, Andrea De Salve and Simona E. Rombo	Customer Recommendation Based on Profile Matching and Customized Campaigns in On-Line Social Networks	10:05-10:30

READNet Workshop Session II (11:00-12:30)

Dionisis Margaris, Dimitris Spiliotopoulos and Costas Vassilakis	Social Relations versus Near Neighbours: Reliable Recommenders in Limited Information Social Network Collaborative Filtering for Online Advertising	11:00-11:25
Carmela Comito	Travel Routes Recommendations via Online Social Networks	11:25-11:50
Gianluca Lax and Antonia Russo	A System to Enforce User's Preference in OSN Advertising	11:50-12:15
	Workshop Closure	12:15

SNAST Workshop Program

SNAST Workshop Session I (11:00-12:30)

Opening Remarks	Thirimachos Bourlai	11:00 - 11:10
Lingwei Chen, Shifu Hou, Yanfang Ye, Thirimachos Bourlai, Shouhuai Xu and Liang Zhao	iTrustSO: An Intelligent System for Automatic Detection of Insecure Code Snippets in Stack Overflow	11:10 - 11:40
Dimitrios Lappas, Panagiotis Karampelas and George Fessakis	The role of social media surveillance in search and rescue missions	11:40 - 12:10
Sho Tsugawa and Sumaru Niida	The Impact of Social Network Structure on the Growth and Survival of Online Communities	12:10 - 12:40

SNAST Workshop Session II (14:00-16:00)

Jacob Rose and Thirimachos Bourlai	Facial Attribute Estimation of Mobile Phone Face Data to aid in Biometric Systems	14:00-14:30
Dimitris Spiliotopoulos, Costas Vassilakis and Dionisis Margaritis	Data-driven Country Safety Monitoring Terrorist Attack Prediction	14:30-15:00
Kaustav Basu and Arun Sen	On Augmented Identifying Codes for Monitoring Drug Trafficking Organizations	15:00-15:30
Suha Reddy Mokalla and Thirimachos Bourlai	On Designing MWIR and Visible Band based DeepFace Detection Models	15:30-16:00

SNAAP Workshop Program

SNAAP Workshop Session I (11:00 –12:30)

Opening of SNAAP 2019 Workshop		11:00-11:10
Christopher Yong, Charalampos Chelmiss, Wonhyung Lee and Daphney-Stavroula Zois	Understanding Online Civic Engagement: A Multi- Neighborhood Study of SeeClickFix	11:10-11:35
Charalampos Chelmiss, Mengfan Yao and Wonhyung Lee	Web and Society: A First Look into the Network of Human Service Providers	11:35-12:00
Do Yeon Kim, Xiaohang Li, Sheng Wang, Yunying Zhuo and Roy Ka-Wei Lee	Topic Enhanced Word Embedding for Toxic Content Detection in Q&A Sites	12:00-12:25

SNAAP Workshop Session (14:00 –15:30)

Arpita Chandra, Zoheb Borbora, Ponnurangam Kumaraguru and Jaideep Srivastava	Finding Your Social Space: Empirical Study of Social Exploration in Multiplayer Online Games	14:00-14:25
Abu Saleh Md. Tayeen, Abderrahmen Mtibaa and Satyajayant Misra	Location, Location, Location! Quantifying the True Impact of Location on Business Success Using a Yelp Dataset	14:25-14:50
Sandra Mitrovic, Laurent Lecoutere and Jochen De Weerd	A Comparison of Methods for Link Sign Prediction with Signed Network Embeddings	14:50-15:15
Closing of the SNAAP 2019 Workshop		15:15-15:30

MSNDS Workshop Program

MSNDS Workshop Session I (14:00-16:00)

K. (Lynn) Putman: LIACS, Leiden University; Hanjo D. Boekhout: LIACS, Leiden University; Frank W. Takes: LIACS, Leiden University	Fast Incremental Computation of Harmonic Closeness Centrality in Directed Weighted Networks	14:00-14:25
Min-Yuh Day: Tamkang University; Jian-Ting Lin: Tamkang University	Artificial Intelligence for ETF Market Prediction and Portfolio Optimization	14:25-14:50
Logan Praznik: Brandon University, Brandon, Canada ; Gautam Srivastava: Brandon University, Brandon, Canada; Chetan Mendhe: Lakehead University, Thunder Bay, Canada ; Vijay Mago: Lakehead University, Thunder Bay, Canada	Vertex-Weighted Measures for Link Prediction in Hashtag Graphs	14:50-15:15
Gui-Ru Li : National Central University; Chia-Hui Chang : National Central University	Semantic Role Labeling for Opinion Target Extraction from Chinese Social Network	15:15-15:40

MSNDS Workshop Session II (16:30-18:30)

Patryk Pazura : West Pomeranian University of Technology, Szczecin; Jaroslaw Jankowski : West Pomeranian University of Technology	Increasing the Diffusional Characteristics of Networks Through Optimal Topology Changes within Sub-graphs	16:30-16:55
Li Chen Cheng : National Taipei University of Technology; Song-Lin Tsai : Soochow University	Deep Learning for Automated Sentiment Analysis of Social Media	16:55-17:20
Takayasu Fushimi : Tokyo University of Technology; Kenichi Kanno : Tokyo University of Technology	Extraction of User Demands Based on Similar Tweets Graph	17:20-17:45
Shih-Hung Wu : Chaoyang University of Technology; Jun-Wei Wang : Chaoyang University of Technology	Integrating Neural and Syntactic Features on the Helpfulness Analysis of the Online Customer Reviews	17:45-18:10

Program of SI Workshop Program

SI Workshop Session (9:00-10:30)

Jan Hauffa, Wolfgang Bräu and Georg Groh	Detection of Topical Influence in Social Networks via Granger-Causal Inference: A Twitter Case Study	9:00-9:30
Sukankana Chakraborty, Sebastian Stein, Markus Brede, Ananthram Swami, Geeth de Mel and Valerio Restocchi	Competitive Influence Maximisation using Voting Dynamics	9:30-10:00
Mihai Valentin Avram, Shubhanshu Mishra, Nikolaus Nova Parulian and Jana Diesner	Adversarial perturbations to manipulate the perception of power and influence in networks	10:00-10:30

Floor Plan

3RD FLOOR

