# **Technical Program of**

**IEEE/ACM ASONAM 2016** 

**FOSINT-SI 2016** 

**HI-BI-BI 2016** 

**FAB 2016** 

and collocated workshops

18-21 August 2016 Sir Francis Drake Hotel San Francisco – CA, USA

**Academic & industry Sponsors** 





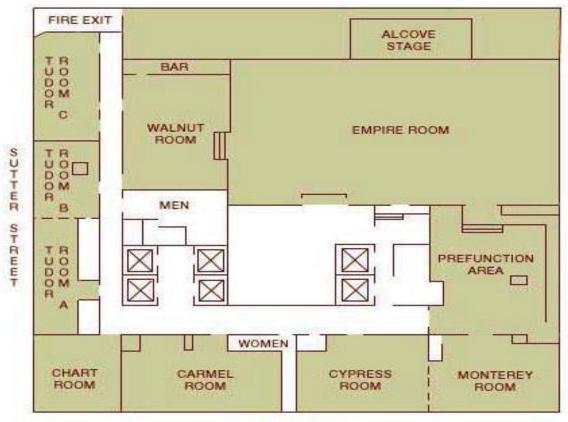




IEEE/AC	M ASONAM 202	16 FC		gram Ov 2016 – H			2016 and collocated workshop	os	
7:30					Regist	tration			
			Th	ursday 1	8 Augu	ıst			
8:00 - 9:30	SNAST 2016 WOSINF 2016 SNAA 2016 Wine Salon  Tudor C  Tudor A-B  Arno's hands on workshop Cypress/Monte Hands on training on understanding and using Bu Fractions search strategies in combination with C academic data in a blink of the eye by Arno H.P. F					ilding Blocks and Successive Citation Pearl Growing to find			
9:30 - 10:00		В	reak	Empire/\	Walnut/	/Prefuntion			
10:00 - 12:00	SNAST 2016 Wine Salon WOSINF 2016 Tudor C SNAA 2016 Tudor A-B PhD Forum full papers session and feedback to students Cypress/Monterey								
12:00-13:00		Lunch	Break	Empire/	Walnut	/Prefuntion			
13:00-15:00	DYNO 2016 Carmel		MSNDS Tudor C	2016	Posters/Demos madness session for main conference, symposiums and workshops Chairs: Keivan Kianmehr and Nima Dokoohaki Cypress/Monterey			Multidisciplinary S1: Wine Salon	
15:00-15:30		Break	Emp	ire/Waln	ut/Pref	untion			
15:30-17:00	DVNO 2016 MSNDS 2016 DbD Forum full papage session				Multidisciplinary S2: Wine Salon				
19:00-21:00		Recepti	on /Poster	s Em	pire/W	alnut/Prefunti	on		
	·		Th	ursday 1	8 Augu	ıst			
8:00-10:00	8:00-10:00  Tutorial 1 - Evolutionary Computation for Community Detection in Complex Networks  Clara Pizzuti Empire/Walnut/Prefuntion								
10:00 - 10:30	Lunch Break Empire/Walnut/Prefuntion								
10:00 -12:00	Tutorial 2 - Introduction to Social Media Network Analysis with NodeXL  Dr. Marc A. Smith and Harald Meier - Empire/Walnut/Prefuntion								
					Br	eak			
13:00 - 15:00	Trytopial 2 Identifician Malliaine Astone on Ocala Madia								

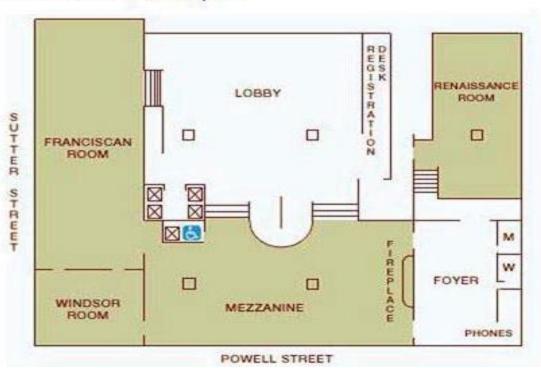
	7:30	Registration	n							
			A	В	С					
	08300930	Plenary 1	Brian Uzzi, Northwesteri	n University, USA	Empire/Walnut/Prefunt	ion Chair:	VS Subrah	nanian		
	09301000	Break Empire/Walnut/Prefuntion posters and demos								
	10001200	Session 1	1: Best Papers Empire	9		FOSINT-SI -S1 Tudor C	l:	Multidisciplinary S3: Wine Salon		
	12001300	Lunch	Empire/Walnut/Prefur	1						
19 <sup>th</sup> August	13001500	Session 2	2A: Graphs Empire	2B: Communities Cypress/Monterey	2C: Politics, Unrest Carmel	FOSINT-SI key	ynote & S2:	Multidisciplinary S4: Wine Salon		
	15001530	Break	Empire/Walnut/Prefuntio	n posters and demos	3					
	15301700	Panel	Empire/Walnut/Prefu		ator: VS Subrahmania "Social Network Analy		Good"			
	19:00-21:30	Banquet	Empire/Walnut/Prefu	ntion						
	7:30	Registration	n							
	08300930	Plenary 2 Evimaria_Terzi, Boston University, USA Empire/Walnut/Prefuntion Chair: Hanghang Tong								
	09301000	Break Empire/Walnut/Prefuntion posters and demos								
20 <sup>th</sup> August	10001200	Session 3	3A: Sampling and Streaming Empire					Multidisciplinary S 5: Wine Salon		
August	12001300	Lunch	Empire/Walnut/Prefur							
	13001400	Plenary 3	Lise Getoor, University of	of California, Santa Cru	z, USA Empire/Walnu	ıt/Prefuntion	Chair: Jon Rokne			
	14001430	Break	Empire/Walnut/Prefuntion	1						
	14301630	Session 4	4A: Algorithmic methods Empire	4B:Information Sharing Cypress/Monterey	4C: Spatial Carmel		FAB-S2: Tudor A-B	Multidisciplinary S6: Wine Salon		
	7:30	Registration								
	08300930	Plenary 4	Lada Adamic, Facebook	, USA Empire/Walnu	ut/Prefuntion	Chair:	James Cav	erlee		
	09301000	Break	Empire/Walnut/Prefuntion	n						
<b>21</b> st	10001200	Session 5	5A: Machine learning methods Empire	5B: Communities 2 Cypress/Monterey	5C: Applications Carmel	HIBIHI-S1: Tudor C	FAB-S3 Tudor A-B	Industrial Track S1: Wine Salon		
August	12001300	Lunch	Empire/Walnut/Prefuntion							
	13001500	Session 6	6A: Recommender sys Empire	6B: Social Media 1 Cypress/Monterey	6C: New Directions Carmel	HIBIHI-S2: Tudor C	FAB-S4: Tudor A-B	Industrial Track S2: Wine Salon		
	15001530	Break	Empire/Walnut/Prefuntion							
	15301700	Session 7	7A: Markets Empire	7B: Social media 2 Cypress/Monterey	7C:Adversarial/Trust 2 Carmel	HIBIHI-S3: Tudor C				

#### Second Floor Floorplan



POWELL STREET

#### Mezzanine Level Floorplan



60	1: Best Papers Chair: Shang Gao Room: Empire	
	Influence based Analysis of Community Consistency in Dynamic	Xiaowei Jia (University of Minnesota, Twin Cities, United States) and Xiaoyi Li (State University of New York at Buffalo, United States) and Nan Du (State University of New York at Buffalo, United States) and Yuan Zhang (North Carolina State University, United States) and Vishrawas Gopalakrishnan (State University of New York at Buffalo, United States) and Guangxu Xun (State University of New York at Buffalo, United States) and
30	Networks	Aidong Zhang (State University of New York at Buffalo, United States)
30	Stop Clickbait: Detecting and Preventing Clickbaits in Online News Media	Abhijnan Chakraborty (Indian Institute of Technology Kharagpur, India) and Bhargavi Paranjape (Indian Institute of Technology Kharagpur, India) and Sourya Kakarla (Indian Institute of Technology Kharagpur, India) and Niloy Ganguly (Indian Institute of Technology Kharagpur, India)

120	2A: Graphs C	Chair: Antwan D. Clark	Room: Empire	
				Ghizlane Echbarthi (University Lyon 1, France) and Hamamache Kheddouci (University
30	Streaming METI	S Partitioning		Lyon 1, France)
				James Fairbanks (Georgia Institute of Technology, United States) and Anita Zakrzewska
				(Georgia Tech, United States) and David A. Bader (Georgia Institute of Technology,
30	New Stopping C	riteria For Spectral Partitioning		United States)
				Raman Samusevich (Czech Technical University in Prague, Czech Republic) and
				Maximilien Danisch (Institut Mines Telecom, Telecom Paristech, CNRS, Paris, France)
30	Local Triangle-D	ensest Subgraphs		and Mauro Sozio (Institut Mines Telecom, Telecom Paristech, CNRS, Paris, France)
				Zhefeng Wang (University of Science and Technology of China, China) and Lingyang
				Chu (Simon Fraser University, Canada) and Jian Pei (Simon Fraser University, Canada)
	Tradeoffs between	en Density and Size in Extracting Dens	se Subgraphs: A	and Enhong Chen (University of Science and Technology of China, China) and Abdullah
30	Unified Framewo			Al-Barakati (King Abdulaziz University, Saudi Arabia)

120	3A: Sampling and Streaming Chair: Carlos Sarraute	Room: Empire
	Estimating Exponential Random Graph Models using Sampled	
30	Network Data via Graphon	Ran He (Bell Labs, United States) and Tian Zheng (Columbia University, United States)
		Elli Voudigari (Athens University of Economics and Business, Greece) and Nikos Salamanos (Athens University of Economics and Business, Greece) and Theodore Papageorgiou (Athens University of Economics and Business, Greece) and Emmanuel
30	Rank Degree: An Efficient Algorithm for Graph Sampling	Yannakoudakis (Athens University of Economics and Business, Greece)
30	Query-Friendly Compression of Graph Streams	Arijit Khan (NTU, Singapore) and Charu Aggarwal (IBM T. J. Watson Research Center, United States)
30	Classification in Dynamic Streaming Networks	Yibo Yao (Washington State University, United States) and Lawrence Holder (Washington State University, United States)

120	4A: Algorithmic methods Chair: Jeremy Wendt Room: Empire	e
30	NIMBLECORE: A Space-efficient External Memory Algorithm for Estimating Core Numbers	Priya Govindan (Rutgers University, United States) and Sucheta Soundarajan (Syracuse University, United States) and Tina Eliassi-Rad (Northeastern University, United States) and Christos Faloutsos (Carnegie Mellon University, United States)
30	All-Pairs Shortest Distances Maintenance in Relational DBMSs	Sergio Greco (University of Calabria, Italy) and Cristian Molinaro (University of Calabria, Italy) and Chiara Pulice (University of Calabria, Italy) and Ximena Quintana (University of Calabria, Italy)
30	Togetherness: An Algorithmic Approach to Network Integration	Anastasia Moskvina (Auckland University of Technology, New Zealand) and Jiamou Liu (The University of Auckland, New Zealand)
30	On the Guarantee of Containment Probability in Influence Minimization	Chien-Wei Chang (National Cheng Kung University, Taiwan) and Mi-Yen Yeh (Institute of Information Science, Academia Sinica, Taiwan) and Kun-Ta Chuang (National Cheng Kung University, Taiwan)

120	5A: Machine learning methods Chair: Jalal Kawash Room: En	npire
		Ke Wu (Rensselaer Polytechnic Institute, United States) and Philip Watters (Rensselaer
	Network Classification Using Adjacency Matrix Embeddings and Deep	Polytechnic Institute, United States) and Malik Magdon-Ismail (Rensselaer Polytechnic
30	3	Institute, United States)
	Weakly Hierarchical Lasso based Learning to Rank in Best Answer	Qiongjie Tian (Arizona State University, United States) and Baoxin Li (Arizona State
30	Prediction	University, United States)
		Mikolaj Morzy (Poznan University of Technology, Poland) and PrzemysÅ, aw Kazienko
		(WrocA,aw University of Science and Technology, Poland) and Tomasz Kajdanowicz
20	Priority Rank Model: a Universal Tool for Social Network Generation	(WrocÅ,aw University of Science and Technology, Poland)
	An Information Theoretic Approach to Generalised Blockmodelling for	Neil Hurley (Insight Centre for Data Analytics, University College Dublin, Ireland) and
20	the Identification of Meso-Scale Structure in Networks	Erika Duriakova (Insight Centre for Data Analytics, University College Dublin, Ireland)
20	Bayesian Model Selection of Stochastic Block Models	Xiaoran Yan (Indiana University, United States)

110	6A: Recommender sys. Chair: John O'Donovan Room: Emp	pire
30	Downside Management in Recommender Systems	Huan Gui (University of Illinois at Urbana-Champaign, United States) and Haishan Liu (LinkedIn Corp, United States) and Jiawei Han (University of Illinois at Urbana-Champaign, United States)
30	Downside Management in Recommender Systems	Xiaowei Jia (University of Minnesota, United States) and Xiaoyi Li (State University of
	Collaborative Restricted Boltzmann Machine for Social Event	New York at Buffalo, United States) and Kang Li (State University of New York at Buffalo, United States) and Vishrawas Gopalakrishnan (State University of New York at Buffalo, United States) and Guangxu Xun (State University of New York at Buffalo, United States)
20	Recommendation	and Aidong Zhang (State University of New York at Buffalo, United States)
20	Twitter Message Recommendation Based on User Interest Profiles	Raheleh Makki Niri (Dalhousie University, Canada) and Axel J. Soto (University of Manchester, United Kingdom) and Stephen Brooks (Dalhousie University, Canada) and Evangelos E. Milios (Dalhousie University, Canada)
20	Generating Risk Reduction Recommendations to Decrease Vulnerability of Public Online Profiles	Janet Zhu (Georgetown University, United States) and Sicong Zhang (Georgetown University, United States) and Lisa Singh (Georgetown University, United States) and Grace Hui Yang (Georgetown University, United States) and Micah Sherr (Georgetown University, United States)
20	Exploring Influence Among Participants for Event Recommendation	Yi Liao (The Chinese University of Hong Kong, Hong Kong) and Xinshi Lin (The Chinese University of Hong Kong, Hong Kong) and Wai Lam (The Chinese University of Hong Kong, Hong Kong)

100	7A: Markets Chair: Jon Rokne Room: Empire	
30		Chaolun Xia (Rutgers University, United States) and Shan Muthukrishnan (Rutgers University, Microsoft India, United States) and Saikat Guha (Microsoft Research, India, India)
30	Higher-order correlations of consumption patterns in social-economic	Yannick Léo (ENS de Lyon, France) and Márton Karsai (ENS de Lyon, France) and Carlos Sarraute (Grandata Labs, Argentina) and Eric Fleury (ENS Lyon / INRIA, France)
20	Crowdfunding Platforms	Yusan Lin (Penn State University, United States) and Chung-Chou H. Chang (University of Pittsburgh, United States) and Wang-Chien Lee (Penn State University, United States)
20		Inzamam Rahaman (The University of the West Indies, Trinidad and Tobago) and Patrick Hosein (The University of the West Indies, Trinidad and Tobago)

120	2B: Communities Chair: Tanmoy Chakraborty Room: Cypress/Mo	nterey
	Non-Sharing Communities? An Empirical Study of Community	Gaurav Misra (Lancaster University, United Kingdom) and Jose M. Such (Lancaster
30	Detection for Access Control Decisions	University, United Kingdom) and Hamed Balogun (Lancaster University, Nigeria)
		Takayasu Fushimi (University of Tsukuba, Japan) and Kazumi Saito (University of
		Shizuoka, Japan) and Tetsuo Ikeda (University of Shizuoka, Japan) and Kazuhiro
20	Functional Cluster Extraction from Large Spatial Networks	Kazama (Wakayama University, Japan)
		Dimitrios Rafailidis (Department of Informatics, Aristotle University of Thessaloniki,
		Greece) and Fabio Crestani (Faculty of Informatics, Universita della Svizzera italiana
20	Network Completion via Joint Node Clustering and Similarity Learning	(USI), Switzerland)
		Soumya Sarkar (IIT Kharagpur, India) and Suhansanu Kumar (UIUC, Champaign, IL,
	Sensitivity and Reliability in Incomplete Networks: Centrality Metrics to	United States) and Sanjukta Bhowmick (Univ. of Nebraska, Omaha, United States) and
20	Community Scoring Functions	Animesh Mukherjee (IIT Kharagpur, India)
		Tanmoy Chakraborty (University of Maryland, College Park MD 20742, United States)
	Ensemble-Based Algorithms to Detect Disjoint and Overlapping	and Noseong Park (University of Maryland, College Park MD 20742, United States) and
30	Communities in Networks	V.S. Subrahmanian (University of Maryland, College Park MD 20742, United States)

120	3B: Social Networks Chair: Atanu Roy Room: Cypi	ress/Monterey
		Yuemeng Li (University of North Carolina at Charlotte, United States) and Xintao Wu (University of Arkansas, United States) and Song Yang (University of Arkansas, United
20	Social Network Dominance based on Analysis of Asymmetry	States)
20	MaxReach: Reducing Network Incompleteness through Node Probes	Sucheta Soundarajan (Syracuse University, United States) and Tina Eliassi-Rad (Northeastern University, United States) and Brian Gallagher (Lawrence Livermore National Laboratory, United States) and Ali Pinar (Sandia National Laboratories, United States)
	The Art Cook is the Good of the Cook is th	Sina Sajadmanesh (Sharif University of Technology, Iran, Islamic Republic of) and Hamid
20	Predicting Anchor Links between Heterogeneous Social Networks	R. Rabiee (Sharif University of Technology, Iran, Islamic Republic of) and Ali Khodadadi (Sharif University of Technology, Iran, Islamic Republic of)
20	Benchmarking Online Social Networks	Pablo Nicolas Terevinto (Universitat PolitÃ"cnica de ValÃ"ncia, Spain) and Miguel Pérez (Universitat PolitÃ"cnica de ValÃ"ncia, Spain) and Josep DomÃ"nech (Universitat PolitÃ"cnica de ValÃ"ncia, Spain) and José A. Gil (Universitat PolitÃ"cnica de ValÃ"ncia, Spain) and Ana Pont (Universitat PolitÃ"cnica de ValÃ"ncia, Spain)
20	On the delta-Hyperbolicity in Complex Networks	Hend Alrasheed (Kent State University, United States)
20	Why not Scale Free? Simulating Company Ego Networks on Twitter	Yoav Achiam (Bar Ilan University, Israel) and Inbal Yahav (Bar Ilan University, Israel) and David Schwartz (Bar Ilan University, Israel)

120	4B: Information Sharing Chair: Francesca Spezzano Room	: Cypress/Monterey
30	Intertwined Viral Marketing in Social Networks	Jiawei Zhang (University of Illinois at Chicago, United States) and Senzhang Wang (Beihang University, China) and Qianyi Zhan (Nanjing University, China) and Philip S Yu (University of Illinois at Chicago, United States)
30	Analyzing information sharing strategies of users in online social networks	Dong-Anh Nguyen (University of California at Santa Barbara, United States) and Shulong Tan (Baidu Big Data Lab, United States) and Ram Ramanathan (Network Research Department, Raytheon BBN Technologies, United States) and Xifeng Yan (University of California at Santa Barbara, United States)
30	Learning Cascaded Social Influence Under Partial Monitoring	Jiaqi Ma (Tsinghua University, China) and Jie Zhang (Tsinghua University, China) and Jie Tang (Tsinghua University, China)
30	Community-based delurking in social networks	Roberto Interdonato (Dept. Computer Engineering, Modeling, Electronics, and Systems Sciences, University of Calabria, Italy) and Chiara Pulice (Dept. Computer Engineering, Modeling, Electronics, and Systems Sciences, University of Calabria, Italy) and Andrea Tagarelli (Dept. Computer Engineering, Modeling, Electronics, and Systems Sciences, University of Calabria, Italy)

120	5B: Communities 2 Chair: Giulio Rossetti Room: Cypress/Mo	onterey
		Qian Guo (Beijing Key Laboratory of Intelligence Telecommunication Software and Multimedia, Beijing University of Posts and Telecommunications, Beijing,100876, China, China) and Lei Zhang (Beijing Key Laboratory of Intelligence Telecommunication Software and Multimedia, Beijing University of Posts and Telecommunications, Beijing,100876, China, China) and Bin Wu (Beijing Key Laboratory of Intelligence Telecommunication Software and Multimedia, Beijing University of Posts and Telecommunications, Beijing,100876, China, China) and Xuelin Zeng (Beijing Key Laboratory of Intelligence Telecommunication Software and Multimedia, Beijing
30	Dynamic Community Detection based on Distance Dynamics	University of Posts and Telecommunications, Beijing,100876, China, China)
30	Enumerating Maximal Cliques in Temporal Graphs	Anne-Sophie Himmel (TU Berlin, Germany) and Hendrik Molter (TU Berlin, Germany) and Rolf Niedermeier (TU Berlin, Germany) and Manuel Sorge (TU Berlin, Germany)
20	Evaluation Measures for Clustering Quality on Graph Samples	Jianpeng Zhang (Eindhoven University of Technology, Netherlands) and Yulong Pei (Eindhoven University of Technology, Netherlands) and George Fletcher (Eindhoven University of Technology, Netherlands) and Mykola Pechenizkiy (Eindhoven University of Technology, Netherlands)
20	A Local Measure of Community Change in Dynamic Graphs	Anita Zakrzewska (Georgia Institute of Technology, United States) and Eisha Nathan (Georgia Institute of Technology, United States) and James Fairbanks (Georgia Institute of Technology, United States) and David A. Bader (Georgia Institute of Technology, United States)
20	A Parameter-Free Method for Detecting Local Communities Based on Attainable Information	Ardavan Afshar (Shiraz University, Iran, Islamic Republic of) and Mansoor Zolghadri Jahromi (Faculty of computer Science and engineering, School of engineering, Shiraz University, Siraz, Iran., Iran, Islamic Republic of) and Ali Hamzeh (Shiraz University, Iran, Islamic Republic of)

120 6B: Social Media 1 Chair: Flo Reeder Room: Cypress/Monterey		ress/Monterey
30	From Migration Corridors to Clusters: The Value of Google+ Data for Migration Studies	Johnnatan Messias (Universidade Federal de Minas Gerais (UFMG), Brazil) and Fabricio Benevenuto (Universidade Federal de Minas Gerais (UFMG), Brazil) and Ingmar Weber (Qatar Computing Research Institute, Qatar) and Emilio Zagheni (University of Washington, United States)
30	How Fashionable is Each Street?: Quantifying Road Characteristics using Social Media	Takuya Nishimura (NTT Service Evolution Laboratories, NTT Corporation, Japan) and Kyosuke Nishida (NTT Service Evolution Laboratories, NTT Corporation, Japan) and Hiroyuki Toda (NTT Service Evolution Laboratories, NTT Corporation, Japan) and Hiroshi Sawada (NTT Service Evolution Laboratories, NTT Corporation, Japan)
20	From Event Detection to Story Telling on Microblogs: A Statistical Approach	Janani Kalyanam (University of California, San Diego, United States) and Sumithra Velupillai (Kings College, London, United Kingdom) and Mike Conway (University of Utah, United States) and Gert Lanckriet (Department of Electrical and Computer Engineering, UC San Diego, United States)
20	Authorship Identification in Bengali Language: A Graph Based Approach	Tanmoy Chakraborty (University of Maryland, College Park MD 20742, United States) and Prasenjit Choudhury (National Institute of Technology, Durgapur West Bengal, India 713209, India)
20	Finding Needles of Interested Tweets in the Haystack of Twitter Network	Qiongjie Tian (Arizona State University, United States) and Jashmi Lagisetty (Arizona State University, United States) and Baoxin Li (Arizona State University, United States)

90	7B: Social media 2 Chair: David Skillicorn Room: Cypress/Mor	nterey
30	Emotion- and Area-Driven Topic Shift Analysis in Social Media Discussions	Kamil Topal (Case Western Reserve University, United States) and Mehmet Koyuturk (Case Western Reserve University, United States) and Gultekin Ozsoyoglu (Case Western Reserve University, United States)
20	What we write about when we write about causality: Features of causal statements across large-scale social discourse	Thomas McAndrew (University of Vermont, United States) and Joshua Bongard (University of Vermont, United States) and Chris Danforth (University of Vermont, United States) and Peter Dodds (University of Vermont, United States) and Paul Hines (University of Vermont, United States) and James Bagrow (University of Vermont, United States)
20	Core-Periphery Clustering and Collaboration Networks	Pierluigi Crescenzi (Universita' degli Studi di Firenze, Italy) and Pierre Fraigniaud (CNRS and University Paris Diderot, France) and Zvi Lotker (Ben Gurion University, Israel) and Paolo Penna (Department of Computer Science, ETH Zurich, Switzerland)
20	Temporal Mechanisms of Polarization in Online Reviews	Antonis Matakos (University of Ioannina, Greece) and Panayiotis Tsaparas (University of Ioannina, Greece)

120	2C: Politics, Unrest Chair: Dimitris Spiliotopoulos Room: Care	mel
30	Community Detection in Political Twitter Networks using Nonnegative Matrix Factorization Methods	Mert Ozer (Arizona State University, United States) and Nyunsu Kim (Arizona State University, United States) and Hasan Davulcu (Arizona State University, United States)
30	On Predicting Social Unrest Using Social Media	Rostyslav Korolov (Rensselaer Polytechnic Institute, United States) and Di Lu (Rensselaer Polytechnic Institute, United States) and Jingjing Wang (University of Illinois at Urbana-Champaign, United States) and Guangyu Zhou (University of Illinois at Urbana-Champaign, United States) and Claire Bonial (U.S. Army Research Laboratory, United States) and Clare Voss (U.S. Army Research Laboratory, United States) and Lance Kaplan (U.S. Army Research Laboratory, United States) and William Wallace (Rensselaer Polytechnic Institute, United States) and Jiawei Han (University of Illinois at Urbana-Champaign, United States) and Heng Ji (Rensselaer Polytechnic Institute, United States)
20	haracterizing Communal Microblogs during Disaster Events	Koustav Rudra (Indian Institute of Technology, Kharagpur, India) and Ashish Sharma (Indian Institute of Technology, Kharagpur, India) and Niloy Ganguly (Indian Institute of Technology Kharagpur, India) and Saptarshi Ghosh (Indian Institute of Engineering Science and Technology Shibpur, India)
20	Investigating the complete corpus of Referendum and Elections tweets Understanding Citizen Reactions and Ebola-Related Information	Despoina Antonakaki (FORTH ICS, Greece) and Dimitris Spiliotopoulos (FORTH ICS, Greece) and Christos V. Samaras (FORTH ICS, Greece) and Sotiris Ioannidis (FORTH ICS, Greece) and Paraskevi Fragopoulou (FORTH ICS, Greece)  Thanh Tran (Utah State University, United States) and Kyumin Lee (Utah State
20	Propagation on Social Media	University, United States)

120	3C: Adversarial/Trust 1 Chair: Enrique Ortega Room: Carmel	
30	Joining User Profiles Across Online Social Networks: from the Perspective of an Adversary	Qiang Ma (Rutgers University, United States) and Han Hee Song (Narus Inc., United States) and S Muthukrishnan (Rutgers University, United States) and Antonio Nucci (Narus Inc., United States)
30	Prediction of Cyberbullying Incidents in a Media-based Social Network	Homa Hosseinmardi (university of colorado boulder, United States) and Rahat Ibn Rafiq (university of colorado boulder, United States) and Richard Han (university of colorado boulder, United States) and Qin Lv (university of colorado boulder, United States) and Shivakant Mishra (university of colorado boulder, United States)
20	Hiding in Plain Sight: Characterizing and Detecting Malicious Facebook Pages	Prateek Dewan (IIIT-Delhi, India) and Shrey Bagroy (IIIT-Delhi, India) and Ponnurangam Kumaraguru (IIIT-Delhi, India)
20	Detecting Malicious Campaigns in Crowdsourcing Platforms	Hongkyu Choi (Utah state University, United States) and Kyumin Lee (Utah state University, United States) and Steve Webb (Georgia Institute of Technology, United States)
20	Trust and Privacy Correlations in Social Networks A Deep Learning Framework	Shatha Jaradat (KTH, Sweden) and Nima Dokoohaki (KTH, Sweden) and Mihhail Matskin (KTH, Sweden) and Elena Ferrari (University of Insubria, Italy)

110	4C: Spatial Chair: Martin Atzmueller Room: Carmel
	Guangchao Yuan (NC State University, United States) and Pradeep Kumar
	Percimo: Location Estimation in Social Media: Exploiting the  Murukannaiah (North Carolina State University, United States) and Munindar Singh
30	Correlation Between Content and Locations (NCSU, United States)
	Wei Niu (Texas A&M University, United States) and James Caverlee (Texas A&M
	University, United States) and Haokai Lu (Texas A&M University, United States) and
30	Community-Based Geospatial Tag Estimation Krishna Kamath (Texas A&M University, College Station, United States)
	Exploiting Spatial-Temporal-Social Constraints for Localness Inference Chao Huang (University of Notre Dame, United States) and Dong Wang (University of
30	Using Online Social Media Notre Dame, United States)
	Huandong Wang (Tsinghua University, China) and Yong Li (Tsinghua University, China)
	Co-Location Social Networks: Linking the Physical World and and Yang Chen (Fudan University, China) and Yue Wang (Tsinghua University, China)
20	Cyberspace and Jian Yuan (Tsinghua University, China) and Depeng Jin (Tsinghua University, China)

130	5C: Applications Chair: Amita Kapoor Room: Ca	rmel
		Xiaotao Gu (Tsinghua University, Beijing, China) and Hong Yang (Tsinghua University,
		China) and Jie Tang (Tsinghua University, China) and Jing Zhang (Tsinghua University,
30	Web User Profiling using Data Redundancy	China)
		Soumajit Pramanik (IIT, Kharagpur, India) and Midhun Gundapuneni (IIT, Kharagpur,
		India) and Sayan Pathak (Microsoft Corporation, United States) and Bivas Mitra (IIT,
30	Can I foresee the success of my Meetup group?	Kharagpur, India)
	Subconscious Crowdsourcing: A Feasible Data Collection Mechanism	Chun-Hao Chang (National Tsing Hua University, Taiwan) and Elvis Saravia (National
20	for Mental Disorder Detection on Social Media	Tsing Hua University, Taiwan) and Yi-Shin Chen (National Tsing Hua University, Taiwan)
		James Schaffer (UC Santa Barbara, United States) and John O'Donovan (UC Santa
	Case Study: A Visual Analysis of Student Behavior in Massive Open	Barbara, United States) and Brandon Huynh (UC Santa Barbara, United States) and
20	Online Courses	Yinglong Xia (IBM, United States) and Sabrina Lin (IBM, United States)
	Personality Homophily and the Local Network Characteristics of	Nyala Noe (Cardiff University, United Kingdom) and Roger M. Whitaker (Cardiff
30	Facebook	University, United Kingdom) and Stuart M. Allen (Cardiff University, United Kingdom)

120	6C: New Directions Chair: Michelle Ibanez Room	: Carmel
30	Social Badge System Analysis	Jiawei Zhang (University of Illinois at Chicago, United States) and Xiangnan Kong (Worcester Polytechnic Institute, United States) and Philip S. Yu (University of Illinois at Chicago, United States)
20	A First Look at User Activity on Tinder	Gareth Tyson (Queen Mary University of London, United Kingdom) and Claudiu Perta (Sapienza University of Rome, Italy) and Hamed Haddadi (Queen Mary University of London, United Kingdom) and Micheal Seto (The Royal, Canada)
20	New to Online Dating? Learning from Experienced Users for a Successful Match	Mo Yu (College of Information Sciences and Technology, The Pennsylvania State University, United States) and Xiaolong Zhang (College of Information Sciences and Technology, The Pennsylvania State University, United States) and Derek Kreager (Department of Sociology and Criminology, The Pennsylvania State University, United States)
20	Dynamics of large scale networks following a merger	John Clements (Brock University, Canada) and Henryk Fuk'S (Brock University, Canada) and Babak Farzad (Brock University, Canada)
30	The Collapse of the Friendster Network Started from the Center of the Core	Kazunori Seki (University of Tokyo, Japan) and Masataka Nakamura (University of Tokyo, Japan)

100	7C: Adversarial/Trust 2 Chair: Jiawei Zhang Ro	oom: Carmel
30	A New Approach to Bot Detection: The Importance of Recall	Fred Morstatter (Arizona State University, United States) and Liang Wu (Arizona State University, United States) and Tahora Hossein Nazer (Arizona State University, United States) and Kathleen Carley (Carnegie Mellon University, United States) and Huan Liu (Arizona State University, United States)
30	Detecting Misinformation in Online Social Networks Before It Is Too Late	Huiling Zhang (University of Florida, United States) and Alan Kuhnle (University of Florida, United States) and Huiyuan Zhang (University of Florida, United States) and My T. Thai (University of Florida, United States)
20	Trustingness & Trustworthiness: A Pair of Complementary Trust Measures in a Social Network	Atanu Roy (University of Minnesota - Twin Cities, United States) and Jaideep Srivastava (University of Minnesota, United States) and Jisu Huh (University of Minnesota, United States)
20	ClearView: Data Cleaning for Online Review Mining	Amanda Minnich (University of New Mexico, United States) and Noor Abu-El-Rub (University of New Mexico, United States) and Maya Gokhale (Lawrence Livermore National Lab, United States) and Ronald Minnich (Google Inc., United States) and Abdullah Mueen (University of New Mexico, United States)

### ASONAM 2016 Posters/Demos Madness Session

Chairs: Keivan Kianmehr and Nima Dokoohaki

Room: -- Cypress/Monterey

- 1. A Platform for Identifying Experts and Paper Retrieval in Citation Networks, Qianwei Wang, Qianshan Yu and Xinyue Yu
- 2. Arguments and Interpretation in Big Social Data Analysis: A Survey of the ASONAM Community Candice Lanius, Candice Lanius
- 3. Gamification for Informal Terms Lexicon Building Fernando Henrique Calderon Alvarado.
- 4. Identifying the Impact of Friends on a Peers Academic Performance Philip Scanlon and Alan Smeaton.
- 5. Social Network of Software Development at GitHub William Leibzon.
- 6. BullyBlocker: Towards the Identification of Cyberbullying in Social Networking Sites -- Yasin Silva (Arizona State University, United States) and Christopher Rich (Arizona State University, United States) and Deborah Hall (Arizona State University, United States)
- 7. Learning Triadic Influence in Large Social Networks Chenhui Zhang (Tsinghua University, China) and Sida Gao (Tsinghua University, China) and Jie Tang (Tsinghua University, China)
- 8. Local Community Detection in Multilayer Networks -- Roberto Interdonato (Dept. Computer Engineering, Modeling, Electronics, and Systems Sciences, University of Calabria, Italy) and Andrea Tagarelli (Dept. Computer Engineering, Modeling, Electronics, and Systems Sciences, University of Calabria, Italy) and Dino Ienco (IRSTEA, UMR TETIS Montpellier, France) and Arnaud Sallaberry (LIRMM Universite Paul Valery, France) and Pascal Poncelet (LIRMM Universite de Montpellier, France)
- 9. Node-Centric Detection of Overlapping Communities in Social Networks Yehonatan Cohen (Ben-Gurion University Of The Negev, Israel) and Danny Hendler (Ben-Gurion University Of The Negev, Israel) and Amir Rubin (Ben-Gurion University Of The Negev, Israel)
- 10. Social Network Change Deection Using a Genetic Algorithm Based Back Propagation Neural Network Model -- Ze Li (College of Information System and Management, National University of Defense Technology, China) and Duo-Yong Sun (College of Information System and Management, National University of Defense Technology, China) and Jie Li (College of Information System and Management, National University of Defense Technology, China) and Zhan-Feng Li (College of Information System and Management, National University of Defense Technology, China)
- 11. Towards Predicting Academic Impact from Mainstream News and Weblogs: A Heterogenous Graph Based Approach Mohan Timilsina (Insight Centre for Data Analytics, National University of Ireland Galway, Ireland) and Brian Davis (Insight Centre for Data Analytics, National University of Ireland Galway, Ireland) and Conor Hayes (Insight Centre for Data Analytics, National University of Ireland Galway, Ireland)
- 12. Towards Sentiment Analysis for Mobile Devices -- Johnnatan Messias (Universidade Federal de Minas Gerais (UFMG), Brazil) and João P. Diniz (Universidade Federal de Minas Gerais (UFMG), Brazil) and Elias Soares (Universidade Federal de Minas Gerais (UFMG), Brazil) and Miller Ferreira (Universidade Federal de Minas Gerais (UFMG), Brazil) and Matheus Araðjo (Universidade Federal de Minas Gerais (UFMG), Brazil) and Lucas Bastos (Universidade Federal de Minas Gerais (UFMG), Brazil) and Manoel Miranda (Universidade Federal de Minas Gerais (UFMG), Brazil) and Fabricio Benevenuto (Federal University of Minas Gerais (UFMG), Brazil)
- 13. Trivia Quiz Mining using Probabilistic Knowledge Taesung Lee (Yonsei University, Korea, Republic of) and Seung-Won Hwang (Yonsei University, Korea, Republic of) and Zhongyuan Wang (Microsoft, China)

## page 2 of 2

### ASONAM 2016 Posters/Demos Madness Session

Chairs: Keivan Kianmehr and Nima Dokoohaki

Room: -- Cypress/Monterey

14. Troll Vulnerability in Online Social Networks Paraskevas Tsantarliotis (University of Ioannina, Greece) and Evaggelia Pitoura (Univ. of Ioannina, Greece) and Panayiotis Tsaparas (Univ. of Ioannina, Greece)
15. ARC: A Pipeline Approach Enabling Large-Scale Graph Visualization, Michael Ferron, Ken Q. Pu, Jaroslaw Szlichta
16. BullyBlocker: An App to Identify Cyberbullying in Facebook*, Yasin N. Silva,Christopher Rich,Jaime Chon,Lisa M. Tsosie
17. CredFinder: a Real-time Tweets Credibility Assessing System, Majed AlRubaian, Muhammad Al-Qurishi, Atif Alamri, Mabrook Al-Rakhami, Mohammad Mehedi Hassan
18. Finding Requests in Social Media for Disaster Relief, Tahora H. Nazer, Fred Morstatter, Harsh Dani, and Huan Liu
19. GiveMeExample: Learning Confusing Words by Example Sentences, Chieh-Yang, Huang, Lun-Wei, Ku
20. MIDAS: Mental Illness Detection and Analysis via Social Media, Elvis Saravia, Chun- Hao Chang, Renaud Jollet De Lorenzo, Yi-Shin Chen*
21. Polinode: A Web Application for the Collection and Analysis of Network Data, Andrew Pitts
22. POSN: A Privacy Preserving Decentralized Social Network App for Mobile Devices, Eric Klukovich, Esra Erdin, and Mehmet Hadi Gunes
23. PRO-Fit: Exercise with friends, Saumil Dharia, Vijesh Jain, Jvalant Patel, Jainikkumar Vora, Rizen Yamauchi, Magdalini Eirinaki, Iraklis Varlamis
24. VirtualIdentity: Privacy Preserving User Profiling, Sisi Wang, Wing-Sea Poon, Golnoosh Farnadi, Caleb Horst, Kebra Thompson, Michael Nickels, Anderson Nascimento, Martine De Cock

25. A Centrality-based Measure of User Privacy in Online Social Networks, Ruggero G. Pensa (University of Torino, Italy,

Italy) and Gianpiero Di Blasi (University of Torino, Italy)

## ASONAM 2016 Industrial Track – Program

Session 1: Knowledge from social and mobile media Chair:	Jiabin Zhao Room: Wine Salon
Authors	Papers
Li Zhang, Liang Zhang, Keli Xiao and Qi Liu	Forecasting Price Shocks with Social Attention and Sentiment Analysis
Aaron Cahn, Scott Alfeld, Paul Barford and S Muthukrishnan	What's in the Community Cookie Jar?
Nikolaos Panagiotou, Ioannis Katakis, Dimitrios Gunopulos, Vana	Mining Hidden Constrained Streams in Practice:
Kalogeraki, Elizabeth Daly, Jia Yuan Yu and Brendan O' Brien	Informed Search in Dynamic Filter Spaces
Martin Fixman, Ariel Berenstein, Jorge Brea, Martin Minnoni, Matias Travizano and Carlos Sarraute	A Bayesian Approach to Income Inference in a Communication Network

Session 2: Network, community, and cascades Chair:	Jiabin Zhao Room: Wine Salon
Authors	Papers
Emmanuel Malherbe and Marie-Aude Aufaure	Bridge the Terminology Gap Between Recruiters and Candidates: A Multilingual Skills Base built from Social Media and Linked Data
Ruocheng Guo and Paulo Shakarian	A Comparison of Methods for Cascade Prediction
Qiang Ma, S. Muthukrishnan and Wil Simpson	App2Vec: Vector Modeling of Mobile Apps and Applications
Juan de Monasterio, Alejo Salles, Carolina Lang, Diego Weinberg, Martin Minnoni, Matias Travizano and Carlos Sarraute	Analyzing the Spread of Chagas Disease with Mobile Phone Data

## ASONAM 2016 - Multidisciplinary Track – Program

SESSION	Authors	Title
	Martin Atzmueller, Tom Hanika, Gerd	Social Event Network Analysis: Structure,
S1	Stumme, Richard Schaller and Bernd Ludwig	Preferences, and Reality
Applications of		Analyzing social media marketing in the high-
network analysis and	Jorge Alé Chilet, Cuicui Chen, Yusan Lin	end fashion industry using named entity
social media analysis		recognition
	Leidys del Carmen Contreras Chinchilla, Kevin	Analysis of the behavior of customers in the
Room: Wine Salon	Andrey Rosales Ferreira	social networks using data mining techniques
Chair: Rosa Benito	Mikel Joaristi, Edoardo Serra, Francesca	Evaluating the Impact of Social Media in
	Spezzano	Detecting Health-Violating Restaurants
	S. Martin-Gutierrez*, J. Borondo*, A. J.	
	Morales*, J. C. Losada*, A. M. Tarquis*† and	Agricultural activity shapes the mobility
	R. M. Benito*	patterns in Senegal
	Alon Sela, Dmitri Goldenberg, Erez Shmueli,	Scheduled Seeding for Latent Viral Marketing
S2	Irad Ben-Gal	
Network Analysis and	Andrej Kastrin, Thomas C. Rindflesch, ,Dimitar	Evolution of MEDLINE bibliographic database:
applications to	Hristovski	preliminary results
information and	Benjamin D. Horne & Sibel Adalı, Kevin Chan	Impact of message sorting on access to novel
Knowledge		information in networks
		The scientometrics of successful women in
Room: Wine Salon	Charisse Madlock-Brown et al.	science
Chaire Maha Caliman		
Chair: Maha Soliman	Fabien Tarissan, Yannis Panagis and Urska	Selecting the cases that defined Europe:
	Sadl	complementary metrics for a network analysis
	Maha Soliman, Olfa Nasraoui, Nigel G.F	Analysis and visualization of a literature-
	Cooper	mined glaucoma interaction network
S3		Model of computer architecture for online
Models and Methods	Giovannetti Romain and Luigi Lancieri	social network flexible data analysis
for social media	Lakshika Balasuriya, Sanjaya Wijeratne, Derek	,
analysis	Doran, Amit Sheth	Finding street gang members on twitter
		Exploring public sentiments in places based
Room: Wine Salon	Linlin You,Bige Tuncer	on a crowd-calibrated sentiment analysis
		mechanism using geo-tagged social network
Chair: Nitin Agarwal		messages
	Muhammad Hrishiah, Maytham Safar, Khaled	Modeling Twitter as Weighted Complex
	Mahdi	Networks Using Retweets
	Narotam Singh, Sheetal Varshney, Amita	Centrality measures in close group of
	Kapoor	adolescent females and their association with
	Shashi II Kumar Jaw Buiana Jian Catana	individual character strenghts
	Shachi H Kumar , Jay Pujara , Lise Getoor , David Maresy, Dipak Guptaz and Ellen Riloff	Unsupervised models for predicting strategic relation between organization
	David Ivialesy, Dipak Guptaz aliu Elleli KilOIT	relation between organization

S4	Geetika Sarna and MPS Bhatia	A probabilistic approach to automatic extract new words from social media
Models and Methods for social media analysis 1	Luigi lancieri and Romain Giovanetti	Multilevel exploration in twitter social stream
Room: Wine Salon	Tom Carrick, Awais Rashid, Paul J Taylor	Mimicry in online conversations: an exploratory study of linguistic analysis techniques
Chair: Martin Atzmueller	Wei-Chung Wang, Lun-Wei Ku	Identifying chinese lexical inference using probabilistic soft logic
	Abdélilah Balamane, Rokia Missaoui, Léonard Kwuida and Jean Vaillancourt	Descriptive Group Detection in Two-mode Data Networks using Biclustering
	Hyunsouk Cho, Seung-won Hwang	ECO: Entity-level Captioning in Context
S5	Ilhem Feddaoui, Faîçal Felhi, Jalel Akaichi	EXTRACT: New extraction algorithm of association rules from frequent itemsets
New Algorithms for Data Mining and Media Analysis	Izzat Alsmadi, Dianxiang Xu, Nitish Dhakal	Testing Assessment of Group Collaborations in OSNs
Room: Wine Salon	Martin Atzmueller	Detecting community patterns capturing exceptional link trails
Chair: Rokia Missaoui	Upul Senanayake, Mahendra Piraveenan	A memory-efficient heuristic for maximum matching in scale-free networks
	Zvi Lotker	The Tale of two clocks
	Anh Dang, Mike Smit, Abidalrahman Moh'd, Rosane Minghim, and Evangelos Milios	Toward understanding how users respond to rumors in social media
	J. Borondo, A. J. Morales, J. C. Losada,	Analyzing the Usage of Social Media During
S6	and R. M. Benito	Spanish Presidential Electoral Campaigns
Social Media Analysis and Political Issues	Linn Sandberg, Shatha Jaradat, Nima dokoohaki	The social media election agenda: Issue salience on Twitter during the European and Swedish
Room: Wine Salon	Saud Alashri, Srinivasa Srivatsav Kandala, Vikash Bajaj, Roopek Ravi, Kendra L. Smith and Kevin C. Desouza	Analysis of sentiment on facebook during 2016 USA presidential election
Chair: Nima dokoohaki	Serpil Tokdemir, Nitin Agarwal, Rolf T. Wigand.	Social Media, Spillover, and Saudi Arabian Women's right to drive movements: Analyzing interconnected online collective actions

### **August 18, 2016: Doctoral Forum and Posters**

<u>Session 1: Social Network Analysis and Society.</u> **10:00 AM - 12:00 PM** (30 minutes per talk, 25 minutes for talk + 5 minutes for Q&A)

Chairs' Opening remarks (10 minutes)

- 1. Huang Weiyue. Is it truly a 5-star Movie? Restoring the Movie's Truthful Rating
- 2. Srishti Gupta. Emerging Threats Abusing Phone Numbers Exploiting Cross-Platform Features
- 3. Elizabeth Williams. GeoContext: Discovering Geographical Topics from Social Media

<u>Session 2: Fundamentals of Social Network Analysis</u>, 3:30 PM - 5:20 PM (30 minutes per talk, 25 minutes for talk + 5 minutes for Q&A)

- 1. Fred Morstatter. Detecting and Mitigating Bias in Social Media
- 2. Muhammad Uddin. Noise Removal and Structured Data Detection to Improve Search for Personality Features
- 3. Benjamin Cabrera. Towards Using Subpattern Distributions in Social Network Analysis

Chairs' Closing remarks (10 minutes)

#### Poster Session -

Please refer to the main posters madness session for all posters.

## FOSINT-SI 2016 Program

Friday, Au	ıgust 19		
07:30	Registration		
08:30	_	- Plenary 1 - Brian Uzzi, Northwest	ern University, USA
09:30	Coffee Break		
09:50	Welcome and C	pening (FOSINT-SI 2016)	
10:00	Session 1	Chair: David Skillicorn	Room: Tudor C
Regular Paper	Spam Detect	ion of Twitter Traffic: A Framew	ork based on Random Forests and non-
Рарег	uniform featu	re sampling	
	Claudia Med	a, Edoardo Ragusa, Christian (	Gianoglio, Rodolfo Zunino, Augusto
		ugenio Scillia and Roberto Surli	
Regular		tors of Sex Trafficking to Identil	
Paper	Advertisemen	ŭ	,
		nez and Rich Gazan	
Regular			Graph Pattern Matching for Investigative
Paper	_	Simulation. Towards Offizing C	Braph Pattern Matching for investigative
	Search		
Short	_	ing and Anura Jayasumana	
Paper		all of #NoBackDoor on Twitter:	the Apple vs. FBI Case
		ateeb and Nitin Agarwal	
12:00	Lunch Break		
13:00	Invited Keynote		
	Chair: Uwe Gla		owigog Ostovia)
		n (Director, Criminal Intelligence Secous Data Mining for Organized Crin	
14:00	Session 2	Chair: Uwe Glässer	Room: Tudor C
Best	Argumentation	on Models for Cyber Attribution	Room: Tudor C
	Argumentation Eric Nunes, I		Room: Tudor C
Best Paper 15:00	Argumentation  Eric Nunes, I  Coffee Break	on Models for Cyber Attribution Paulo Shakarian, Gerardo Sima	Room: Tudor C
Best Paper	Argumentation Eric Nunes, I	on Models for Cyber Attribution Paulo Shakarian, Gerardo Sima	Room: Tudor C
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Best Paper 15:00 15:30 Saturday,	Argumentation Eric Nunes, I Coffee Break ASONAM 2016 August 20	on Models for Cyber Attribution Paulo Shakarian, Gerardo Sima	Room: Tudor C
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14:30	Session 4 Chair: Mohammad Tayebi Room: Tudor C
Short Paper	Detecting Covert Sex Trafficking Networks in Virtual Markets
Рарег	Michelle Ibanez and Dan Suthers
Short	Temporal Analysis of Dark Web_Forum_Users
Paper	Andrew Park, Brian Beck, Darrick Fletcher, Patrick Lam and Herbert H. Tsang
Short Paper	Cyberbullying Detection Using Probabilistic Socio-Textual Information Fusion
Гарег	Vivek Singh, Qianjia Huang and Pradeep Atrey
Short Paper	Understanding Alliance and Opposition Among Violent Groups
Гарег	Quan Zheng and David Skillicorn
Short Paper	Detecting Sex Trafficking Circuits in the U.S. Through Analysis of Online Escort
Рарег	Advertisements
	Michelle Ibanez and Rich Gazan

### **FAB 2016 PROGRAM**

## 20 August 2016

	FriendRank: A Personalized Approach for	Min Li, Linfeng Luo, Lin Miao,
Session 1	Tweets Ranking in Social Networks	Yibo Xue, Zhiyun Zhao* and Zhenyu
Recommendation		Wang
Systems	Personalized Recommendation for New	Lin Wang*, Bin Wu, Juan Yang and
	Questions in Community Question Answering	Shuang Peng
Room: Tudor A-B	Time Preference aware Dynamic	Makbule Gulcin Ozsoy,
	Recommendation Enhanced with Location,	Faruk Polat* and Reda Alhajj
Session Chair:	Social Network and Temporal Information	
Faruk Polat	An Intelligent Method for Optimization of	Buket Kaya*
	Tariffs in GSM Networks	
	Big Data Mining of Social Networks for	Fan Jiang and Carson Leung*
	Recommended Friends	

	Mining 'Following' Patterns from Big Sparse	Edson Dela Cruz, Fan Jiang and
	Social Networks	Carson Leung*
Session 2	Frequent and Non-Frequent Pattern Detection	Konstantinos Xylogiannopoulos*,
<b>Pattern Detection</b>	in Big Data Streams: An Experimental	Panagiotis Karampelas* and Reda
	Simulation in 1 Trillion Data Points	Alhajj*
Room: Tudor A-B	Mining Quad Closure Patterns in Instagram	Ahmet Anıl Müngen*
		Mehmet Kaya
Session Chair:	Co-Clustering Signed 3-Partite Graphs	Sefa Sahin Koc, Ismail Hakkı Toroslu*,
Ismail Hakkı		Hasan Davulcu
Toroslu	Classification of HIV data By Constructing A	Yunuscan Koçak, Tansel Özyer*, Reda
	Social Network with Frequent Itemsets	Alhajj

## 21 August 2016

	A New Topological Metric for Link	Ertan Bütün*, Mehmet Kaya and Reda
	Prediction in Directed, Weighted and	Alhajj
Session 3 Machine	Temporal Networks	
<b>Learning Methods</b>	Spectral Graph-Based Semi-supervised	Quan Zheng and David Skillicorn*
	Learning for Imbalanced Classes	
Room: Tudor A-B	Proposing Good Fit job Candidate Algorithm	Muhammad Fahim Uddin*
	(GFC-A) to Utilize Big Data and Career Data	Jeongkyu Lee
Session Chair:	Examining Place Categories for Link	Ahmet Engin Bayrak,
Hasan Davulcu	Prediction in Location Based Social Networks	Faruk Polat*

Session 4 Social Network	Spiral of Silence in Social Networks: A Datadriven Approach	Linfeng Luo, Min Li, Qing Wang, Yibo Xue, Chunyang Liu* and Zhenyu Wang
Applications	On data collection, graph construction, and sampling in Twitter	Jeremy D. Wendt*, Randy Wells, Richard V. Field, Jr. Sucheta Soundarajan
Session Chair: Muhammad Fahim Uddin	An Experimental Evaluation of Giraph and GraphChi A Privacy Weaving Pipeline for Open Big	Junnan Lu* and Alex Thomo*  Yu Yuan-Chih* and Dwen-Ren Tsai
	Data	

## HIBIB 2016 -- Program

HIBIB 2016 -- Session 1 Chair: Shang Gao Room: Tudor C

Target Screening Neuroprotective Compounds with similar structure to Macromolecule Ginsenoside Rg1 from TCM by Molecular Docking and Molecular Imprint Technology	Qing-Shan Liu, Lina Yi and Xiaoying Yin
Study of transductive learning and unsupervised feature construction methods for biological sequence classification	Ana Stanescu, Karthik Tangirala and Doina Caragea
Understanding Crohn's disease patients reaction to Infliximab from Facebook: a medical perspective	Marco Roccetti, Paola Salomoni, Catia Prandi, Gustavo Marfia, Marco Montagnani and Linda Gningaye
Efficient Adverse Drug Event Extraction using Twitter Sentiment Analysis	Yang Peng, Melody Moh and Teng Moh

### HIBIB 2016 -- Session 2 Chair: Ana Stanescu Room: Tudor C

A Hybrid Statistical and Semantic Model for Identification of Mental Health and Behavioral Disorders using Social Network Analysis	Madan Krishnamurthy, Khalid Mahmood, Pawel Marcinek
A Personal Health Recommender System Incorporating Personal Health Records, Modular Ontologies, and Crowd-Sourced Data	Hengyi Hu, Adam Elkus, Larry Kerschberg
A Smart Phone Application in Improving Healthy Lifestyles and Health Outcomes for School-age Children with Asthma	Chia-Tung Wu, Yu-Fen Tzeng, Te-Wei Ho, Shyh-Wei Chen, Bih-Shya Gau, Feipei Lai, Hung-Yu Chiu
Mining Electronic Physical Records, A Trial	Wenyang Zou, Shang Gao and Xiaohui Wei

### HIBIB 2016 -- Session 3 Chair: Khalid Mahmood Room: Tudor C

Machine Learning Approach for Distinction of ADHD and OSA	KC. Chu, HJ. Huang and YS. Huang
A Fuzzy Model for Friendship Prediction in Healthcare Social Networks	Zeineb Dhouioui, Helmi Tlich, Radhia Toujeni and Jalel Akaichi

#### ABBREVIATION (for the Programme Overview) ARNO'S WORKSHOP

#### **WORKING TITLE:**

Hands on training on understanding and using Building Blocks and Successive Fractions search strategies in combination with Citation Pearl Growing to find academic data in a blink of the eye

Presenter:

Arno H.P. Reuser

#### Presenter BACKGROUND

- o Founder and director Reuser's Information Services, 2008-.
- o Founder and manager (ret.) Open Source Intelligence Branch, Defence Intelligence & Security Service, The Netherlands, 1998-2013

#### CONTENT:

Open Source Intelligence (OSINT) is a holistic approach to creating actionable intelligence for decision makers based on the analysis of public information that is retrieved from open sources. The OSINT process is based on the RIS Intelligence Cycle describing each individual step to build a solid information position and hence to produce intelligence.

The Internet / social media as an information source have many drawbacks and pitfalls making retrieving reliable information much more complex than is generally assumed. Most users start solving their information problems by using Google thus making four wrong assumptions: all required information is on the Internet, the Internet is the same as the WWW, searching Google is simple with all relevant hits on the first page, and Google has indexed everything on the WWW.

The workshop will demonstrate the most common pitfalls of using the Internet, address the assumptions, discuss the role of social media in forensics from a practitioners viewpoint, share tools (Scrapbook, Maltego, RIS QRS) and techniques for Mozilla Firefox to search much faster and more efficient, validate open source data and demonstrate search strategies Building Blocks and Successive Fractions in combination with Citation Pearl Growing to find exactly what you need and bring down millions of results to just a few hundred with high relevance.

This combined methodology, widely used in Open Source Intelligence, has proven to be ideal for building a good, reliable, solid information position for intelligence production.

## DyNo 2016 Program

Chair: Giulio Rossetti, PhD Thursday 18 August 2016

Session 1

Chair: Giulio Rossetti

13:00-13:10

Opening Remark

13:10-13:30

Anita Zakrzewska and David A. Bader

Aging Data in Dynamic Graphs: A Comparative Study

13:30-13:50

Pascal Held and Rudolf Kruse

Detecting Overlapping Community Hierarchies in Dynamic Graphs

13:50-14:10

Kuntal Dey, Sahil Agrawal, Rahul Malviya and Saroj Kaushik Assessment of Effectiveness of Content Models for Approximating Twitter Social

14:10-14:30

**Connection Structures** 

Alireza Hajibagheri, Gita Sukthankar and Kiran Lakkaraju

A Holistic Approach for Predicting Links in Coevolving Multilayer Networks

14:30-14:50

**Aaron Schecter** 

Modeling the Joint Dynamics of Relational Events and Individual States

Session 2 Chair: Giulio Rossetti

#### 15:30-15:50

Paolo Cintia, Michele Coscia and Luca Pappalardo

The Haka Network: Evaluating Rugby Team Performance with Dynamic Graph Analysis

#### 15:50-16:10

Federico Musciotto, Saverio Delpriori, Paolo Castagno and Evangelos Pournaras Mining Social Interactions in Privacy-preserving Temporal Networks

#### 16:10-16:30

Xavier Bost, Vincent Labatut and Georges Linarès

Narrative smoothing: dynamic conversational network for the analysis of

TV Series plots

#### 16:30-16:40

Closing Remark

### **MSNDS 2016 Program**

Chair: Prof. I-Hsien Ting, Prof. Min-Yuh Day, Dr. Ming-Tai Wu

Thursday 18 August 2016

Session 1 Chair: Prof. I-Hsien Ting

13:00-13:10

Opening Remark

13:10-13:30

K.-C. Chu and C.-C. Yeh

Knowledge flow of biomedical informatics domain: position-based co-citation analysis approach

13:30-13:50

Min-Yuh Day and Chia-Chou Lee

Deep Learning for Financial Sentiment Analysis on Finance News Providers

13:50-14:10

Min-Yuh Day and Wei-Chun Chuang

The Effect of Customer Perceived Value on Relationship Quality Between Illustrator and Fans to Recommendation on Facebook

14:10-14:30

Juan Yang, Mengxin Li, Bin Wu and Chenyang Xu

Forming a Research Team of Experts in Expert-Skill Co-occurrence network of Research News

14:30-14:50

María Óskarsdóttir, Cristián Bravo, Wouter Verbeke, Carlos Sarraute, Bart Baesens and Jan Vanthienen

A Comparative Study of Social Network Classifiers for Predicting Churn in the Telecommunication Industry

Session 2 Chair: Prof. I-Hsien Ting

15:30-15:50

Heng-Shiou Sheu, Yi-Chung Chen and Don-Lin Yang

A Novel Approach for m-representative Skyline Query

15:50-16:10

Chih-Chien Wang, Min-Yuh Day and Yu-Ruei Lin

Toward Understanding the Cliques of Opinion Spammers with Social Network Analysis

16:10-16:30

Kamil Topal and Gultekin Ozsoyoglu

Movie Review Analysis: Emotion Analysis of IMDb Movie Reviews

16:30-16:50

Arijit Chatterjee and William Perrizo Investor Classification and Sentiment Analysis

16:50-17:00

Closing Remark

## SNAA 2016 Workshop (Thursday 18 August 2016)

SNAA 2016 - S1 (Tudor A-B) 08:00-09:30

Coffee Break 09:30-10:00

10:00-12:00 SNAA 2016 – S2 (Tudor A-B)

12:00-13:00 Lunch

Each author will have 25 minutes for the presentation and Q&A session.

Time: 08:00-9:30, Chair: Katarzyna Musiał-Gabryś, Room: Tudor A-B

- Piotr Bródka and Katarzyna Musiał-Gabryś Introduction
- Julian Fares and Kon Shing Kenneth Chung Personal Networks and Perception of Care
- Michał Weskida and Radosław Michalski Evolutionary Algorithm for Seed Selection in Social Influence **Process**
- Ashwin Bahulkar, Boleslaw Szymanski, Omar Lizardo, Nitesh Chawla, Yuxiao Dong and Yang Yang -Analysis of Link Formation, Persistence and Dissolution in NetSense Data

#### SNAA - S2

Time: 10:30-12:30, Chair: Piotr Bródka, Room: Tudor A-B

- Chulaka Gunasekara, Kishan Mehrotra and Chilukuri Mohan Improving the Robustness of the Smart Grid using a Multi-Objective Key Player Identification Approach
- Ashley Farrugia, Rob Claxton and Simon Thompson Towards Social Network Analytics for **Understanding and Managing Enterprise Data Lakes**
- Fei Gao and Katarzyna Musial Hybrid Link Prediction Model
- Brian Crawford, Ralucca Gera, Ryan Miller and Bijesh Shrestha Community Evolution in Multiplex **Layer Aggregation**
- Piotr Bródka and Katarzyna Musiał-Gabryś SNAA Closing and the Best Paper Award Winner Presentation

## **SNAST 2016 Program**

Chairs: Panagiotis Karampelas, Thirimachos Bourlai

Thursday 18 August 2016

Session 1 Chair: Thirimachos Bourlai

08:00-08:10

Opening Remark

08:10-08:50

Prof. Didier Meuwly, University of Twente, Netherlands Forensic Institute

Keynote Speech

08:50-09:10

Xuan Xu, Michael Martin and Thirimachos Bourlai

Automatic Tattoo Image Registration System

09:10-09:30

Antwan Clark

Dynamic Prediction and Estimation of Intentional Failures in HPCs

Session 2 Chair: Thirimachos Bourlai

#### 10:00-10:20

Yifang Wei and Lisa Singh

Identification of Extremism on Twitter

#### 10:20-10:40

Sophie Baillargeon, Simon Hallé and Christian Gagné

Stream Clustering of Tweets

#### 10:40-11:00

Andreas Xenaros, Panagiotis Karampelas and Ioanna Lekea

Profiling individuals based on email analysis and ego networks - A Visualization

Technique

#### 11:00-11:20

Mauro Coletto, Chiara Renso, Franco Maria Nardini and Cristina Ioana Muntean Sentiment-enhanced multidimensional analysis of online social networks: Perception of the Mediterranean refugees crisis

#### 11:20-11:40

Neeru Narang and Thirimachos Bourlai

On the Effectiveness of Statistical Hypothesis Testing in Infrared-based Face

Recognition in Heterogeneous Environments



8:00-8:20	Welcome to WOSINF (organizers) Chairs: Paulo Shakarian & Radoslaw Michalski
8:20-8:40	Toward Understanding Spatial Dependence on Epidemic Thresholds in Networks
	Zesheng Chen, Indiana University - Purdue University Fort Wayne
8:40-9:00	Observations on the role of influence in the difficulty of social network control
	Dave Mckenneyÿand Tony White, Carleton University
9:00-9:20	Estimating Influence of Social Media Users from Sampled Social Networks
	Kazuma Kimura, University of Tsukuba
9:20-9:40	Stability of Certainty and Opinion in Influence Networks
	Ariel Webster, Bruce Kapron University of Victoria
9:40-10:00	Influential User Detection on Twitter: Analyzing Effect of Focus Rate
	Zeynep Zengin Alp, Istanbul Technical University
10:00-10:30	BREAK
10:30-11:30	KEYNOTE: On (Influence) War
	Tim Hwang, Pacific Social
11:30-11:50	An Empirical Evaluation Of Social Influence Metrics
	Ruocheng Guo, Arizona State University
11:50-12:00	Conclusion (organizers)