Technical Program of

IEEE/ACM ASONAM 2015

FOSINT-SI 2015

HI-BI-BI 2015

FAB 2015

and collocated workshops

25 – 28 August 2015
ParisTech
Paris, France

Program Overview for IEEE/ACM ASONAM 2015 -- FOSINT-SI 2015 – HI-BI-BI 2015 – FAB 2015 and collocated workshops			
7:45 AM	Registration		
Tuesday 25 August 2015			
8:30 10:00 AM	SOMERIS 2015 B551	MANEM 2015 B559	SNAA 2015 F502
10:00-10:30 AM	Break B300 and E200		
10:30-12:30 AM	SOMERIS 2015 B551	MANEM 2015 B559	SNAA 2015 F502 — PhD Forum full papers session F503
12:30-1:30 PM	Lunch Break B300 and E200		
1:30--3:30 PM	DYNO 2015 B551	MSNDS 2015 B559	PhD Forum posters discussion and feedback to students F503
3:30-4:00 PM	Break B300 and E200		
4:00-6:00 PM	DYNO 2015 B551	MSNDS 2015 B559	Posters/Demos madness session B312
7:00-9:30 PM	Reception /Posters B300 and E200		

Tuesday 25 August 2015		
10:30-12:30	Tutorial 1 B310	Tutorial 2 B312
	Lunch Break	
1:30-3:30	Tutorial 2 B310	Tutorial 3 B312
	Break	
4:00-6:00	Tutorial 5 B310	

Wednesday 26 August 2015						
7:45 AM	Registration					
8:30	Opening ceremony: Amphi Thévenin					
9:00-10:00 AM	ASONAM - Keynote Speaker I Amphi Thévenin			FOSINT-SI Keynote Speaker I F502		
10:00-10:30 AM	Break B300 and E200					
10:30-12:30 AM	ASONAM-S1: B310	ASONAM –S2: B312	ASONAM –S3: B551	FOSINT-SI-S1: F502	HIBIHI-S1: B559	Multidisciplinary S1: F503
12:30-1:30 PM	Lunch Break B300 and E200 ASONAM -- Demo Session -- ASONAM Poster Session -- FOSINT-SI Poster Session					
1:30pm-2:30pm	ASONAM - Keynote Speaker II					
2:30-4:30 PM	ASONAM - S4: B310	ASONAM -S5: B312	ASONAM –S6: B551	FOSINT-SI-S2: F502	HIBIBI-S2: B559	Multidisciplinary S2: F503
4:30-5:00 PM	Break B300 and E200					
5:00-6:30 PM	Panel: Amphi Thévenin					

Thursday 27 August 2015						
8:00 AM	Registration B300 and E200					
9:00-10:00 AM	ASONAM - Keynote Speaker III			FOSINT-SI Keynote Speaker II F502		
10:00-10:30 AM	Break B300 and E200					
10:30-12:00	ASONAM--S7: B310	ASONAM –S8: B312	ASONAM –S9: B551	FOSINT-SI-S3: F502	FAB-S1 B559	Multidisciplinary S3: F503
12:00-1:00 PM	Lunch Break B300 and E200 ASONAM -- Demo Session -- ASONAM Poster Session -- FOSINT-SI Poster Session					
1:00-2:00 PM	ASONAM - Keynote Speaker IV					
2:00-2:30 PM	Break B300 and E200					
2:30-4:00 PM	ASONAM - S10: B310	ASONAM –S11: B312	ASONAM –S12: B551	FOSINT-SI-S4: F502	FAB-S2 B559	Multidisciplinary S4: F503
7:00-11:00 PM	Banquet					

Friday 28 August 2015					
8:00 AM	**Registration B300 and E200**				
9:00-10:00 AM	**ASONAM - Keynote Speaker V**				
10:00-10:30AM	**Break B300 and E200**				
10:30-12:30	**ASONAM-S13 B310**	**ASONAM – S14 B312**	**ASONAM –S15 B551**	**FAB– S3: B559**	**Industrial –S1 F503**
12:30-1:30 PM	**Lunch Break B300 and E200**				
1:30-3:30 PM	**ASONAM-S16: B310**	**ASONAM – S17 B312**	**ASONAM –S18 B551**	**FAB S4: B559**	**Industrial – S2 F503**
3:30-4:00 PM	**Break B300 and E200**				
4:00-5:30 PM	**ASONAM –S19: B310**		**ASONAM –S20: B312**		**ASONAM –S21 B551**
5:30 PM	**Closing: Amphi Thévenin**				

ASONAM 2015 Tutorials

Tutorial #1: **Core Decomposition: Algorithms and Applications**

Fragkiskos D. Malliaros, Michalis Vazirgiannis, and Apostolos N. Papadopoulos

Tutorial #2: **Analysis and mining of multiple social networks**

Matteo Magnani

Tutorial #3: **Principles, models, and methods for the characterization and analysis of lurkers in online social networks**

Roberto Interdonato and Andrea Tagarelli

Tutorial #4: **Bot Detection in Social Media: Networks, Behavior, and Evaluation**

Fred Morstatter, Kathleen M. Carley, and Huan Liu

Tutorial #5: **Subgroup Discovery and Community Detection on Attributed Graphs**

Martin Atzmueller

ASONAM 2015 Panel

Title: Global Influence of Social Media
Moderator: Huan Liu, Arizona State University, USA

Panelists:

Sinan Aral MIT Sloan School of Management, USA
Jaideep Srivastava University of Minnesota, USA and Qatar Foundation, Qatar
Noshir Contractor Northwestern University, USA
Ricardo Baeza-Yates Yahoo Labs, USA
Fabrizio Silvestri, Yahoo Labs, Barcelona
Jie Tang Tsinghua University, China

ASONAM 2015 Keynote Talks

The Dynamics of Social Influence and Reputation Online

- **Sinan Aral** MIT Sloan School of Management, USA

Abstract: Identity and reputation drive some of the most important relational decisions we make online: Who to follow or link to, whose information to trust, whose opinion to rely on when choosing a product or service, and whose content to consume and share. Yet, we know very little about the dynamics of social influence and relational reputation and how they affect our decision making. Sinan will describe a series of large scale experiments that explore the behavioral dynamics catalyzed by social influence, identity and reputation online. He will explore some of the implications for bias in online ratings, social advertising and the ability to generate cascades of behavior through peer to peer influence in networks. Sinan will argue that new research on social influence and relational reputation could help guide our platform design and social policy decisions in light of the rising importance of peer effects and reputation online.

Short Bio: Sinan is the David Austin Professor of Management at MIT, where he holds joint Professorships in the IT and Marketing groups and leads the "Social Analytics and Experimentation" Pillar of MIT's Initiative on the Digital Economy. He is also the Chief Scientist at Humin, a social platform developing what the Wall Street Journal called the first "Social Operating System." Sinan was the Scholar-in-Residence at the New York Times R&D Lab in 2013 and has worked closely with Facebook, Yahoo, Microsoft, Nike, IBM, Intel, Cisco, Oracle, SAP and many other leading Fortune 500 firms on realizing business value from big data analytics, social media and IT investments. His research on social influence and information diffusion in social networks has won numerous awards including the Microsoft Faculty Fellowship, the PopTech Science Fellowship, an NSF CAREER Award, a Fulbright Scholarship and seven "Best Paper" awards. He was also recently named one of the "World's Top 40 Business School Professors Under 40" by Poets & Quants. In his spare time, he cooks, skis and tell jokes about his own cooking and skiing. His most recent hobby is learning from his one year old son. You can find Sinan on Twitter @sinanaral.

Communities and privacy in mobile phone social networks

- **Vincent Blondel** Université catholique de Louvain, Belgium

Abstract

We describe several recent results on large network analysis with a special emphasis on community detection and on the analysis of mobile phone datasets. In particular, we describe the Louvain method that and can be routinely used for analyzing networks with billions of nodes or links. We analyze communities obtained on a nationwide dataset of criminal records, as well as on a social network constructed from mobile phone communications that span periods covering several months. We also describe applications of mobile phone dataset analysis for a range of applications such as urban planning, traffic optimization, monitoring of development policy, crisis management, and control of epidemics. With these applications in mind we overview results obtained in the "Data for Development" (D4D) challenge on the analysis of mobile phone datasets. We analyze the privacy threats of anonymized mobile phone dataset and show that human behavior puts fundamental natural constraints to the privacy of individuals.

Short Bio: Vincent D. Blondel is professor of applied mathematics and president of the University of Louvain (Belgium). He is affiliated with the Massachusetts Institute of Technology (Cambridge, USA) where he was a visiting professor and Fulbright scholar. He has held various appointments, including at Oxford University, at the Royal Institute of Technology (Stockholm, Sweden), at INRIA (Paris), and at the University of California (Santa Barbara). Vincent has directed more than thirty PhD and Master thesis. He is an IEEE Fellow and is the recipient of several international prizes, including the IEEE Ruberti prize and the SIAM prize on control and systems theory. He is a pioneer in the analysis of mobile phone datasets and the organizer of several international challenges on mobile phone datasets analysis. His recent work has been widely featured, including in Wired, Technology Review, Le Monde, La Recherche, BBC, CNN, Der Spiegel, The Wall Street Journal and The New York Times.

Interpersonal Trust Dynamics in Online Systems – Models and Applications

- **Jaideep Srivastava** University of Minnesota, USA and Qatar Foundation, Qatar

Abstract

Understanding the nature of online interpersonal trust continues to gain importance, especially as we increasingly perform activities and form relationships online. Trust forms a critical substrate on which activities with economic consequence, e.g. e-commerce transactions, or relationships with emotional consequence, e.g. friendships and romances, are built. There is a vast literature on interpersonal trust in the social sciences. However, with the mass adoption of the Internet in our daily lives, and the ability to capture high resolution data on its use, we are at the threshold of a deeper understanding of the dynamics behind interpersonal trust. It is now becoming possible to study the phenomenon of trust dynamics at a much finer granularity than ever before. Online social systems such as Multiplayer Online Games (MOGs) and Virtual Worlds (VWs) have become increasingly popular and have communities comprising tens of millions. They serve as unprecedented tools to theorize and empirically model the trust dynamics of individuals, groups, and networks within large communities. This talk consists of four parts. First, we describe findings from the Virtual World Exploratorium; a multi-institutional, multi-disciplinary project which uses data from commercial MMOGs and VWs to study many fields of social science, including sociology, social psychology, organization theory, group dynamics, macro-economics, etc. Second, describe a model for a multi-relational, multi-activity environment, where 'low familiarity threshold' activities like chatting, grouping, and transactions form the scaffolding for the formation of 'high familiarity threshold' relationships like trust formation. Third, using this model, we describe our studies on the dynamics of online interpersonal trust, including like trust formation, trust reciprocation, trust revocation, and the nature of trust transitivity and trust cascading. Finally, we describe some applications of this model for tasks like understanding the vulnerabilities of a social network to rumor spreading, and inoculation against it.

Short Bio: Jaideep Srivastava is the Director of the Social Computing division at QCRI. He is on leave from the University of Minnesota, where he directs a laboratory focusing on research in Web Mining, Social Analytics, and Health Analytics. He is a Fellow of the Institute of Electrical and Electronics Engineers (IEEE), has been an IEEE Distinguished Visitor, and is a Distinguished Fellow of Allina's Center for Healthcare Innovation. He has been awarded the Distinguished Research Contributions Award of the PAKDD, for his lifetime contributions to the field of data mining. Six of his papers have won best paper awards.

Dr. Srivastava is currently co-leading a multi-institutional, multi-disciplinary project in the rapidly emerging area of social computing (http://vwobservatory.com/). He has significant experience in the industry, in both consulting and executive roles. He was the data mining architect at Amazon.com (www.amazon.com), built a data analytics department at Yodlee (www.yodlee.com), and served as the Chief Technology Officer for Persistent Systems (www.persistentsys.com). He is the Co-Founder and Chief Scientific Officer of Ninja Metrics (www.ninjametrics.com), which brings his research in social analytics to the commercial world. He is an adviser to CogCubed (www.cogcubed.com), an innovative company whose goal is to revolutionize the diagnosis and therapy of cognitive disorders through the use of online games, to LeadId (www.leadid.com), the market leader in cross-industry lead management, and to Kipsu (http://kipsu.com/), which is providing an innovative approach to improving service quality in the hospitality industry. Dr. Srivastava has held distinguished professorships at Heilongjiang University and Wuhan University, China. He has held advisory positions with the State of Minnesota, and the State of Maharashtra, India. He is a technology advisor to the Unique ID (UID) project of the Government of India, whose goal is to provide biometrics-based social security numbers to the 1.2 Billion citizens of India. Dr. Srivastava has delivered invited talks in over 30 countries, including more than a dozen keynote addresses at major international conferences. He has a Bachelors of Technology from the Indian Institute of Technology (IIT), Kanpur, India, and MS and PhD from the University of California, Berkeley.

Leveraging Computational Social Science to address Grand Societal Challenges

- **Noshir Contractor** Northwestern University, Dept. of Industrial Engineering & Management Sciences, USA

Abstract

The increased access to big data about social phenomena in general, and network data in particular, has been a windfall for social scientists. But these exciting opportunities must be accompanied with careful reflection on how big data can motivate new theories and methods. Using examples of his research in the area of networks, Contractor will argue that Computational Social Science serves as the foundation to unleash the intellectual insights locked in big data. More importantly, he will illustrate how these insights offer social scientists in general, and social network scholars in particular, an unprecedented opportunity to engage more actively in monitoring, anticipating and designing interventions to address grand societal challenges.

Short Bio: Noshir Contractor is the Jane S. & William J. White Professor of Behavioral Sciences in the McCormick School of Engineering & Applied Science, the School of Communication and the Kellogg School of Management at Northwestern University, USA. He is the Director of the Science of Networks in Communities (SONIC) Research Group at Northwestern University and a board member of the Web Science Trust. He is investigating factors that lead to the formation, maintenance, and dissolution of dynamically linked social and knowledge networks in a wide variety of contexts.

His research program has been funded continuously for almost two decades by major grants from the U.S. National Science Foundation with additional funding from the U.S. National Institutes of Health (NIH), Army Research Laboratory, Air Force Research Laboratory, Army Research Institute, NASA, Rockefeller Foundation, Gates Foundation, and the MacArthur Foundation. His book titled Theories of Communication Networks (co-authored with Professor Peter Monge and published by Oxford University Press), received the 2003 Book of the Year award from the Organizational Communication Division of the National Communication Association. He was a recipient of the 2014 National Communication Association's Distinguished Scholar Award and in 2015 he was elected a Fellow of the International Communication Association. He is also the co-founder and Chairman of Syndio, which offers organizations products and services based on network analytics. Professor Contractor has a Bachelor's degree in Electrical Engineering from the Indian Institute of Technology, Madras and a Ph.D. from the Annenberg School of Communication at the University of Southern California.

Wisdom of Crowds or Wisdom of a Few?

- **Ricardo Baeza-Yates** Yahoo Labs, USA

Abstract

In this keynote we give an introduction to wisdom of crowds in the Web, the long tail of web content, and the bias involved in the generation of user generated content (UGC). This bias creates the wisdom of ad hoc crowds or the wisdom of a few. Although it is well known that user activity in most settings follows a power law, that is, few people do a lot, while most do nothing, there are few studies that characterize well this activity. In a recent analysis of social network data we corroborated that a small percentage of the active users (passive users are the majority) represent at least the 50% of the UGC. As a sub-product, we also found a lower bound for the digital desert, the content in the Web that nobody reads. These results implies that most of the wisdom comes from a few users, which is not that surprising, as the Web is a reflection of our own society, where economical or political power also is in the hands of minorities.

Short Bio: Ricardo Baeza-Yates is VP of Research for Yahoo Labs leading teams in United States, Europe and Latin America since 2006 and based in Sunnyvale, California, since August 2014. During this time he has lead the labs in Barcelona and Santiago de Chile. Between 2008 and 2012 he also oversaw the Haifa lab. He is also part time Professor at the Dept. of Information and Communication Technologies of the Universitat Pompeu Fabra, in Barcelona, Spain. During 2005

he was an ICREA research professor at the same university. Until 2004 he was Professor and before founder and Director of the Center for Web Research at the Dept. of Computing Science of the University of Chile (in leave of absence until today). He obtained a Ph.D. in CS from the University of Waterloo, Canada, in 1989. Before he obtained two masters (M.Sc. CS & M.Eng. EE) and the electronics engineer degree from the University of Chile in Santiago. He is co-author of the best-seller Modern Information Retrieval textbook, published in 1999 by Addison-Wesley with a second enlarged edition in 2011, that won the ASIST 2012 Book of the Year award. He is also co-author of the 2nd edition of the Handbook of Algorithms and Data Structures, Addison-Wesley, 1991; and co-editor of Information Retrieval: Algorithms and Data Structures, Prentice-Hall, 1992, among more than 500 other publications. From 2002 to 2004 he was elected to the board of governors of the IEEE Computer Society and in 2012 he was elected for the ACM Council. He has received the Organization of American States award for young researchers in exact sciences (1993), the Graham Medal for innovation in computing given by the University of Waterloo to distinguished ex-alumni (2007), the CLEI Latin American distinction for contributions to CS in the region (2009), and the National Award of the Chilean Association of Engineers (2010), among other distinctions. In 2003 he was the first computer scientist to be elected to the Chilean Academy of Sciences and since 2010 is a founding member of the Chilean Academy of Engineering. In 2009 he was named ACM Fellow and in 2011 IEEE Fellow.

Wednesday   **26-Aug-15**

Time	Session	Papers
8:30-9:00 am	Opening ceremony	
9:00-10:00 am	Keynote	Sinan Aral
10:00-10:30 am	Break	
10:30-12:30	S1: Influence	
	S2: Communities: detection and applications	
	S3: Events and activities	
12:30-1:30 pm	Lunch	
1:30-2:30 pm	Keynote	Vincent Blondel
2:30-4:30 pm	S4: Tweets	
	S5: Users	
	S6: Structures	
4:30-5:00 pm	Break	
5:00 -6:30 pm	Panel	

Thursday   **27-Aug-15**

Time	Session	Papers
9:00-10:00 am	Keynote	Jaideep Srivastava
10:00-10:30 am	Break	
10:30-12:00	S7: Ties and links	
	S8: Locations and relations	
	S9: Applications	
12:00-1:00	Lunch	
1:00-2:00 pm	Keynote	Noshir Contractor
2:00-2:30 pm	Break	
2:30-4:00 pm	S10: Influence and applications	
	S11: Applications	
	S12: Sentiment and recommendation	

Friday   **28-Aug-15**

Time	Session	Papers
9-10 am	Keynote	Ricardo Baeza-Yates
10-10:30 am	Break	
10:30-12:30	S13: Analysis methods	
	S14: Anomalies, identities, and threats	
	S15: Prediction	
12:30-1:30 pm	Lunch	
1:30-3:30 pm	S16: Twitter	
	S17: Wikipedia and collaboration	
	S18: Communities	
3:30-4:00 pm	Break	
4:00-5:30 pm	S19: Time, locations	
	S20: Privacy and trust	
	S21: Information in Social Networks	

Session #	Title	Authors
S1: Influence	Influence modelling using bounded rationality in social networks	Dharshana Kasthurirathne, Michael Harre and Mahendra Piraveenan
	Social Influence Computation and Maximization in Signed Networks with Competing Cascades	Ajitesh Srivastava, Charalampos Chelmis and Viktor Prasanna
	Combining Propensity and Influence Models for Product Adoption Prediction	Ilya Verenich, Riivo Kikas, Marlon Dumas and Dmitri Melnikov
	Modeling and Utilizing Dynamic Influence Strength for Personalized Promotion	Ya-Wen Teng, Chih-Hua Tai, Philip Yu and Ming-Syan Chen
S2: Communities: detection and applications	Near Linear-Time Community Detection in Networks with Hardly Detectable Community Structure	Aria Rezaei, Saeed Mahloujifar and Mahdieh Soleymani Baghshah
	Community-Based Prediction of Activity Change in Skype	Irene Teinemaa, Anna Leontjeva, Marlon Dumas and Riivo Kikas
	Local Community Detection via Flow Propagation	Costas Panagiotakis, Harris Papadakis and Paraskevi Fragopoulou
	CS-ComDet: A Compressive Sensing Approach for Inter-Community Detection in Social Networks	Hamidreza Mahyar, Hamid R. Rabiee, Ali Movaghar, Elaheh Ghalebi and Ali Nazemian
S3: Events and activities	Finding Non-Redundant Multi-Word Events on Twitter	Nikou Guennemann and Juergen Pfeffer
	Exploring a Scalable Solution to Identifying Events in Noisy Twitter Streams	Shamanth Kumar, Sameep Mehta, L. Venkata Subramaniam and Huan Liu
	Prominent Users Detection during Specific Events by Learning On- and Off-topic Features of User Activities	Imen Bizid, Nibal Nayef and Patrice Boursier
	Forecasting High Tide: Predicting Times of Elevated Activity in Online Social Media	Jimpei Harada, David Darmon, Michelle Girvan and William Rand
	Event Detection: Exploiting Socio-Physical Interactions in Physical Spaces	Kasthuri Jayarajah, Archan Misra, Xiao-Wen Ruan and Ee-Peng Lim

	Influence of the Null-Model on Motif Detection	Wolfgang Eugen Schlauch and Katharina Anna Zweig
	Social Event Extraction: Task, Challenges and Techniques	Hao Li, Lin Zhao and Heng Ji
S4: Tweets	Tweet Sentiment: From Classification to Quantification	Wei Gao and Fabrizio Sebastiani
	Fine-Grained Geolocalisation of Non-Geotagged Tweets	Pavlos Paraskevopoulos and Themis Palpanas
	#mytweet via Instagram: Exploring User Behaviour across Multiple Social Networks	Bang Hui Lim, Dongyuan Lu, Tao Chen and Min-Yen Kan
	Weibo, and a Tale of Two Worlds	Wentao Han, Xiaowei Zhu, Ziyan Zhu, Wenguang Chen, Weimin Zheng and Jianguo Lu
S5: Users	Utilizing Non-QA Data to Improve Questions Routing for Users with Low QA Activity in CQA	Ivan Srba, Marek Grznar and Maria Bielikova
	Pairwise structural role mining for user categorization in information cascades	Sarvenaz Choobdar, Pedro Ribeiro and Fernando Silva
	On Mining User Lifestyles from Trip Data	Meng-Fen Chiang, Ee-Peng Lim and Jia-Wei Low
	Public Information Exposure Detection:Helping Users Understand Their Web Footprints	Lisa Singh, Grace Hui Yang, Micah Sherr, Andrew Hian-Cheong, Kevin Tian, Janet Zhu and Sicong Zhang
S6: Structures	On the Skewed Degree Distribution of Hierarchical Networks	Bijan Ranjbar-Sahraei, Haitham Bou Ammar, Karl Tuyls and Gerhard Weiss
	Network Completion with Node Similarity: A Matrix Completion Approach with Provable Guarantees	Farzan Masrour, Iman Barjasteh, Rana Forsati, Abdol-Hossein Esfahanian and Hayder Radha
	Exploiting Phase Transitions for the Efficient Sampling of the Fixed Degree Sequence Model	Christian Brugger, André Lucas Chinazzo, Alexandre Flores John, Christian De Schryver, Norbert Wehn, Andreas Spitz and Katharina Anna Zweig
	"Got to have faith!": The DEvOTION algorithm for delurking in social networks	Roberto Interdonato, Chiara Pulice and Andrea Tagarelli

	Role and position detection in networks: reloaded	Davide Vega, Matteo Magnani, Roc Meseguer and Felix Freitag
	Node Embeddings in Social Network Analysis	Thuy Vu and D. Stott Parker
S7: Ties and links	Social ties and checkin sites: Connections and latent structures in Location Based Social Networks	Sudhir Kylasa, Giorgos Kollias and Ananth Grama
	Hierarchies, Ties and Power in Organisational Networks: Model and Analysis	Jiamou Liu and Anastasia Moskvina
	Significant Edge Detection in Target Network by Exploring Multiple Auxiliary Networks	Nan Du, Jing Gao, Liang Ge, Vishrawas Gopalakrishnan, Xiaowei Jia, Kang Li and Aidong Zhang
S8: Locations and relations	Identification of Key Locations based on Online Social Network Activity	Hariton Efstathiades, Demetris Antoniades, George Pallis and Marios Dikaiakos
	Network vs Market Relations: The Effect of Strategic Friendships in Crowdfunding	Emőke-Ágnes Horvát, Jayaram Uparna and Brian Uzzi
	Reciprocal Recommendation System for Online Dating	Peng Xia, Benyuan Liu, Yizhou Sun and Cindy Chen
S9: Applications	A Longitudinal Study of the Google App Market	Bogdan Carbunar and Rahul Potharaju
	Topological Resilience Analysis of Supply Networks under Random Disruptions and Targeted Attacks	Wenjun Wang, Nick Street and Renato Dematta
	Combining Heterogeneous Data Sources for Civil-Unrest Forecasting	Gizem Korkmaz, Jose Cadena, Chris Kuhlman, Achla Marathe, Anil Kumar Vullikanti and Naren Ramakrishnan
S10: Influence and applications	Influence of Status on Consensus Building in Collaboration Networks	Ilire Hasani-Mavriqi, Florian Geigl, Subhash Chandra Pujari, Elisabeth Lex and Denis Helic
	Multi-state Open Opinion Model based on Positive and Negative Social Influences	Yuan-Chang Chen, Hao-Shang Ma and Jen-Wei Huang
	Extracting Diffusion Channels from Real-World Social Data: a Delay-Agnostic Learning of Transmission Probabilities	Sylvain Lamprier, Simon Bourigault and Patrick Gallinari

	Rumor Spreading Maximization and Source Identification in a Social Network	Wuqiong Luo, Wee Peng Tay and Mei Leng
S11: Applications	Toward Understanding the Mobile Social Properties: An Analysis on Instagram Photo-Sharing Network	Shan Yun Teng, Mi-Yen Yeh and Kun-Ta Chuang
	Human behaviour in different social medias : A case study of Twitter and Disqus	Hasan Al Maruf, Nagib Meshkat, Mohammed Eunus Ali and Jalal Mahmud
	Breaking the News: Extracting the Sparse Citation Network Backbone of Online News Articles	Andreas Spitz and Michael Gertz
	Identification and characterization of cyberbullying dynamics in an online social network	Anna Squicciarini, Sarah Rajtmajer, Yuxuan Liu and Christopher Griffin
	Presence of an Ecosystem: a catalyst in the Knowledge Building Process in Crowdsourced Annotation Environments	Anamika Chhabra, Sudarshan Iyengar, Poonam Saini and Rajesh Shreedhar Bhat
	Actions are louder than words in social media	Rostyslav Korolov, Justin Peabody, Allen Lavoie, Sanmay Das, Malik Magdon-Ismail and William Wallace
S12: Sentiment and recommendation	Mining Complaints for Traffic-Jam Estimation: A Social Sensor Application	Theodore Georgiou, Amr El Abbadi, Xifeng Yan and Jemin George
	Unsupervised Graph-Based Patterns Extraction for Emotion Classification	Carlos Argueta, Yi-Shin Chen and Elvis Saravia
	Little Bad Concerns: Using Sentiment Analysis to Assess Structural Balance in Communication Networks	Jana Diesner and Craig Evans
	Targeted Dot Product Representation for Friend Recommendation in Online Social Networks	Minh Dao, Akshay Rangamani, Sang Peter Chin, Nam Nguyen and Trac Tran
	HyperCubeMap: Optimal Social Network Ad Allocation Using Hyperbolic Embedding	Hui Miao, Peixin Gao, Mohammadtaghi Hajiaghayi and John Baras
	Towards Topic Following in Heterogeneous Information Networks	Deqing Yang, Yanghua Xiao, Hanghang Tong, Wanyun Cui and Wei Wang
S13+A16: Analysis methods	Spectral Embedding of Directed Networks	Quan Zheng and David Skillicorn

	I/O Efficient Algorithms for Exact Distance Queries on Disk-Resident Dynamic Graphs	Yishi Lin, Xiaowei Chen and John C.S. Lui
	Structure-Preserving Sparsification of Social Networks	Gerd Lindner, Christian Staudt, Michael Hamann, Henning Meyerhenke and Dorothea Wagner
	Multiplex networks: a Generative Model and Algorithmic Complexity	Matthew Dippel, Ravi Sundaram and Prithwish Basu
S14: Anomalies, identities, and threats	If walls could talk: Patterns and anomalies in Facebook wallposts	Pravallika Devineni, Danai Koutra, Michalis Faloutsos and Christos Faloutsos
	Leak Sinks: The Threat of Targeted Social Eavesdropping	Yasmin Bokobza, Abigail Paradise, Guy Rapaport, Rami Puzis, Bracha Shapira and Asaf Shabtai
	DIVa: Decentralized Identity Validation for Social Networks	Amira Soliman, Leila Bahri, Barbara Carminati, Elena Ferrari and Sarunas Girdzijauskas
	Investigating the types and effects of missing data in multilayer networks	Rajesh Sharma, Matteo Magnani and Danilo Montesi
S15: Prediction	Networking in Child Exploitation – Assessing disruption strategies using registrant information	Russell Allsup, Evan Thomas, Bryan Monk, Richard Frank and Martin Bouchard
	Predicting Small Group Accretion in Social Networks: A topology based incremental approach	Ankit Sharma, Rui Kuang and Jaideep Srivastava
	Recurrent Subgraph Prediction	Saurabh Nagrecha, Nitesh Chawla and Horst Bunke
	Social Restricted Boltzmann Machine: Human Behavior Prediction in Health Social Networks	Nhathai Phan, Dejing Dou, Brigitte Piniewski and David Kil
S16: Twitter	Uncovering News-Twitter Reciprocity via Interaction Patterns	Yue Ning, Sathappan Muthiah, Ravi Tandon and Naren Ramakrishnan
	The Fragility of Twitter Social Networks Against Suspended Users	Wei Wei, Kenneth Joseph, Huan Liu and Kathleen Carley
	A Tempest in a Teacup?\Analyzing Firestorms on Twitter	Hemank Lamba, Jürgen Pfeffer and Momin Malik

	Reverse Engineering Socialbot Infiltration Strategies in Twitter	Carlos Freitas, Fabricio Benevenuto, Saptarshi Ghosh and Adriano Veloso
	Prominent Users Detection during Specific Events by Learning On- and Off-topic Features of User Activities	Imen Bizid, Nibal Nayef and Patrice Boursier
S17: Wikipedia and collaboration	Measuring Article Quality in Wikipedia using the Collaboration Network	Baptiste De La Robertie, Yoann Pitarch and Olivier Teste
	Beyond Friendships and Followers: The Wikipedia Social Network	Johanna Geiß, Andreas Spitz and Michael Gertz
	Collaboration Signatures Reveal Scientific Impact	Yuxiao Dong, Reid Johnson, Yang Yang and Nitesh Chawla
	Social Network Analysis of Program Committees and Paper Acceptance Fairness	Chen Avin, Zvi Lotker, David Peleg and Itzik Turkel
S18: Communities	Using weak ties to understand resource usage behaviors in an online community of educators	Ogheneovo Dibie and Tamara Sumner
	Hunting Organization-Targeted Socialbots	Abigail Paradise, Asaf Shabtai and Rami Puzis
	Community Detection in Social Network with Pairwisely Constrained Symmetric Non-Negative Matrix Factorization	Shi Xiaohua, Lu Hongtao, He Yangcheng and Shan He
	Community-centric analysis of user engagement in Skype social network	Giulio Rossetti, Luca Pappalardo, Riivo Kikas, Dino Pedreschi, Fosca Giannotti and Marlon Dumas
	Interaction Prediction in Dynamic Networks exploiting Community Discovery	Giulio Rossetti, Riccardo Guidotti, Diego Pennacchioli, Dino Pedreschi and Fosca Giannotti
	A Dynamic Algorithm for Local Community Detection in Graphs	Anita Zakrzewska and David Bader
	An approach from statistical mechanics for collaborative business social network reconstruction	Angelo Corallo, Cristian Bisconti, Laura Fortunato, Antonio Andrea Gentile and Piergiuseppe Pellè
S19: Time and locations	Time-aware Egocentric network-based User Profiling	Marie-Françoise Canut, Sirinya On-At, André Péninou and Florence Sedes
	Analysis of Spatially Oriented Topic Versatility over Time on Social Media	Gwan Jang and Sung-Hyon Myaeng
	Multi-Level Anomaly Detection on Time-Varying Graph Data	Robert Bridges, John Collins, Erik Ferragut, Jason Laska and Blair D. Sullivan
	Modeling Social Network Topology with Variable Social Vector Clocks	Ta-Yuan Hsu and Ajay D. Kshemkalyani

	Discovering Obscure Sightseeing Spots by Analysis of Geo-tagged Social Images	Chenyi Zhuang, Qiang Ma, Xuefeng Liang and Masatoshi Yoshikawa
S20: Privacy and trust	Differentially Private Publication of Social Graphs at Linear Cost	Huu-Hiep Nguyen, Abdessamad Imine and Michael Rusinowitch
	Trust Inference in Online Social Networks	Athanasios Papaoikonomou, Magdalini Kardara and Theodora Varvarigou
	Who is More Positive in Private? Analyzing Sentiment Differences across Privacy Levels and Demographic Factors in Facebook Chats and Posts	Bo Gao, Bettina Berendt and Joaquin Vanschoren
	Believe it or Not? Analyzing Information Credibility in Microblogs	Byungkyu Kang, Tobias Hollerer and John O'Donovan
	Careful what you share in six seconds: Detecting cyberbullying instances in Vine	Rahat Rafiq, Homa Hosseinmardi, Sabrina Mattson, Richard Han, Qin Lv and Shivakant Mishra
S21: Information in Social Networks	Leveraging Rating Behavior to Predict Negative Social Ties	Luc-Aurélien Gauthier, Benjamin Piwowarski and Patrick Gallinari
	Information Spread in Social Networks through Scheduling Seeding Methods	Alon Sela, Irad Ben-Gal, Alex Pentland and Erez Shmueli
	From Coincidence to Purposeful Flow? Properties of Transcendental Information Cascades	Markus Luczak-Roesch, Ramine Tinati, Max Van Kleek and Nigel Shadbolt
	Finding the Right Social Media Site for Questions	震 杨, Isaac Jones, Xia Hu and Huan Liu
	Characterization of cross-posting activity for professional users across Facebook, Twitter and Google+	Reza Farahbakhsh, Ángel Cuevas and Noel Crespi

FOSINT-SI 2015 Program
Paris, France, 26-27 August 2015

Wednesday, August 26		
08:00	Registration	
08:30	Welcome and Opening (ASONAM 2015)	
09:00	**Invited Keynote (ASONAM 2015)**	
10:00	*Coffee Break*	
10:20	Welcome and Opening (FOSINT-SI 2015)	
10:30	**Session 1**	
	Chair: TBA	
	Identifying Digital Threats in a Hacker Web Forum *Mitch Macdonald, Richard Frank, Joseph Mei and Bryan Monk*	
	Identifying Disruptive Events from Social Media to Enhance Situational Awareness *Nasser Alsaedi, Pete Burnap and Omer Rana*	
	Story Detection Using Generalized Concepts and Relations *Betul Ceran, Nitesh Kedia, Steven Corman and Hasan Davulcu*	
Short paper	Information Extraction of Regulatory Enforcement Actions: From Anti Money Laundering Compliance to Countering Terrorism Finance *Vassilis Plachouras and Jochen Leidner*	
12:30	*Lunch Break*	
13:30	**Session 2**	
	Chair:	
	Detectability of Low-Rate HTTP Server DoS Attacks using Spectral Analysis *Joel Brynielsson and Rishie Sharma*	
Short paper	Cyber-Deception and Attribution in Capture-the-Flag Exercises *Eric Nunes, Nimish Kulkarni, Paulo Shakarian, Andrew Ruef and Jay Little*	
Short paper	Real-time monitoring applied of Twitter traffic by using semantic networks *Federica Bisio, Claudia Meda, Rodolfo Zunino, Roberto Surlinelli, Eugenio Scillia and Augusto Vincenzo Ottaviano*	
15:30	Break	
16:00	**Invited Keynote**	
	Chair: Uwe Glässer	
	Maura Conway, Dublin City University, Ireland Crowd-sourced Jihad: IS' Social Media Strategy and the Foreign Fighter Phenomenon	
Thursday, August 27		
08:00	Registration	
08:30	**Invited Keynote**	
	Chair: Uwe Glässer	
	Cor Veenman, Netherlands Forensic Institute (NFI) Data Science in Forensic Intelligence	
09:30	*Coffee Break*	
10:00	**Session 3**	
	Chair: TBA	
	Towards Real-time Classification of Malicious URLs on Twitter using Machine Activity Data *Peter Burnap, Amir Javed, Omer Rana and Malik Shahzad Awan*	
	Malware Task Identification: A Data Driven Approach *Eric Nunes, Casey Buto, Paulo Shakarian, Christian Lebiere, Stefano Bennati, Robert Thomson and Holger Jaenisch*	
	Birds of a Feather Flock Together: The Accidental Communities of Spammers *Yehonatan Cohen and Danny Hendler*	
	Bipartite Network Model for Inferring Hidden Ties in Crime Data *Haruna Isah, Daniel Neagu and Paul Trundle.*	
12:30	*Lunch*	
13:30	**Session 4**	
	Chair: TBA	
	An Approach to Designing a Network Security-based Application for Communications Safety	

	Ndibanje Bruce, Young Jin Kang and Hoon Jae Lee
	Tactics, weapons, targets and rationale behind the actions of the mostly operational terrorist groups across Europe
	Ioanna Lekea, Panagiotis Karampelas, Konstantinos Xylogiannopoulos and Reda Alhajj
	A System for Analyzing Criminal Social Networks
	Kamal Taha and Paul Yoo
15:30	*Coffee Break*
16:00	**Session 5**
	Chair: TBA
Short paper	Sentiment Crawling: Extremist Content Collection through a Sentiment Analysis Guided Web-Crawler *Joseph Mei and Richard Frank*
Short paper	Evaluating Criminal Networks with PEVNET *Amer Rasheed and Uffe Kock Wiil*
Short paper	Authentication Models for IoT Clouds *Luciano Barreto, Antonio Celesti, Massimo Villari, Maria Fazio and Antonio Puliafito*
17:00	*Closing*

Detailed Program of HI-BI-BI 2015

26 August 2015 -- HI-BI-BI 2015 -- S1
10: 30-12: 30 AM (Analysis Methods)

A Graph-Based Method for Analyzing Electronic Medical Records
Rose Yesha: University of Maryland Baltimore County (UMBC); Aryya Gangopadhyay: UMBC;
Eliot Siegel: University of Maryland School of Medicine

An Evaluation of Self-training Styles for Domain Adaptation on the Task of Splice Site Prediction
Nic Herndon: Kansas State University; Doina Caragea: Kansas State University

Decision Making and Support in Healthcare Online Social Networks
Valeria Sadovykh: University of Auckland; David Sundaram: University of Auckland

Demonstrating Social Support from Autism Bloggers Community on Twitter
Amit Saha: University Of Arkansas Medical Science; Nitin Agarwal: University Of Arkansas Little Rock

Importance of Data Mining in Healthcare: A Survey
Mohammad Hossein Tekieh: University of Ottawa; Bijan Raahemi: University of Ottawa

26 August 2015 -- HI-BI-BI 2015 – S2
2: 30-4: 30 PM -- Prediction

Preclinical Tests for Cerebral Stroke
Maria Francesca Zini: University of Pisa; Silvano Bonaretti: Galileo Research S.r.l.; Nadia Pisanti: Dipartimento di Informatica, Universita di Pisa, Italy & Erable Team, INRIA; E. Biasci: Galileo Research S.r.l.; A. Podda: Galileo Research S.r.l.; V. Mey: Galileo Research S.r.l.; F. Piras: Galileo Research S.r.l.; G.L. L'Abbate: Galileo Research S.r.l.; S. Marini: Galileo Research S.r.l.; D. Fratta: Galileo Research S.r.l.; Silvia Trasciatti: Galileo Research S.r.l.

Regularizing predicted complexes by mutually exclusive protein-protein interactions
Osamu Maruyama: Kyushu University; Limsoon Wong: National University of Singapore

Epitope mapping and antigenic evaluation of Helicobacter pylori Urease subunit beta fragment
Ehsan Raoufi: Arak University of Medical Sciences; Hassan Akrami: Department of Biology, School of Science Razi University, Kermanshah; Behzad Khansarinejad: Department of Microbiology and Immunology, Arak University of Medical Sciences; Hamid Abtahi: Department of Microbiology, Molecular and Medical Research Center, Arak University of Medical Sciences

Predicting candidate epitopes on Ebolaviruse for possible vaccine development
Ehsan Raoufi: Arak University of Medical Sciences; Maryam Hemmati: Department of Medical Biotechnology, School of Allied medicine, Iran University of Medical Sciences; Hossein Einabadi: Department of biology, Faculty of science Razi University; Hossein Fallahi: Department of biology, Faculty of science Razi University

Inside Chronic Autoimmune Disease Communities: A Social Networks Perspective to Crohn's Patient Behavior and Medical Information
Marco Roccetti: University of Bologna; Alice Casari: University of Bologna; Gustavo Marfia: University of Bologna

Finding Relations between Diseases by Age-Series Based Supervised Link Prediction
Buket Kaya: Firat University; Mustafa Poyraz: Firat University

Detailed Program of FAB 2015

27 August --- FAB 2015 -- S1
(10: 30-12: 00 AM) Big Data
Management of duplicate members on websites
Kee-Young Kwahk: Kookmin University; Eun-Young Kang: Kookmin University

BDSP: A Big Data Start Platform
Jose Juan Martenez-Pelez: CINVESTAV-IPN; Jorge Buenabad-Chevez: CINVESTAV-IPN; Jose Rangel-Garcea: Edusistemas; Rafael Ramerez-Melendez: Universitat Pompeu

Sequential All Frequent Itemsets Detection A Method to Detect All Frequent Sequential Itemsets Using LERP-Reduced Suffix Array Data Structure and ARPaD Algorithm
Konstantinos Xylogiannopoulos: University of Calgary; Panagiotis Karampelas: Hellenic Air Force Academy; Reda Alhajj: University of Calgary

Big Data and the Regulation of Financial Markets
Sharyn O'Halloran: Columbia University; Sameer Maskey: IBM; Geraldine McAllister: Columbia University; David Park: columbia University; Kaiping Chen: Stanford

Energy Efficiency in Data Stream Mining
Eva Garcea Martin: Blekinge Institute of Technology; Niklas Lavesson: Blekinge Institute of Technology; Hakan Grahn: Blekinge Institute of Technology

27 August --- FAB 2015 -- S2
(2: 30-4: 00 PM) Prediction
Development and Evaluation of Multi-Agent Models Predicting Twitter Trends in Multiple Domains
Thomas Attema: TNO; Peter-Paul van Maanen: TNO Human Factors; Erik Meeuwissen: TNO

Modeling Individuals and Making Recommendations Using Multiple Social Networks
Makbule Gulcin Ozsoy: Middle East Technical University; Faruk Polat: Middle East Technical University; Reda Alhajj: University of Calgary

The Impact of Students and TAs' Participation on Students' Academic Performance in MOOC
Yunping Feng: Shanghai Jiaotong University; Di Chen: Shanghai Jiaotong University; Zihao Zhao: Shanghai Jiaotong University; Haopeng Chen: School of Software, Shanghai Jiao Tong University, China; Puzhao Xi: Able-elec.Co.Ltd

Enhancing Link Prediction in Twitter using Semantic User Attributes
Cherry Ahmed: Cairo University; Abeer Elkorany: Cairo University

Time Frame based Link Prediction in Directed Citation Networks
Mujtaba Jawed: Firat University; Mehmet Kaya: Firat University; Reda Alhajj: University of Calgary

28 August --- FAB 2015 -- S3
(10: 30-12: 30 AM) Network Analysis

Complex Network Analysis on Distributed Systems – An Empirical Comparison
Jannis Koch: Karlsruhe Institute of Technology (KIT); Christian Staudt: Karlsruhe Institute of Technology; Maximilian Vogel: Karlsruhe Institute of Technology; Henning Meyerhenke: Karlsruhe Institute of Technology (KIT)

A Dynamic Modularity Based Community Detection Algorithm for Large-scale Networks: DSLM
Riza Aktunc: Middle East Technical University; Ismail Hakki Toroslu: Middle East Technical University; Mert Ozer: Arizona State University; Hasan Davulcu: Arizona State University

The Full Story: Automatic detection of unique news content in Microblogs
Byungkyu Kang: University of California Santa Barbara; Tobias Hollerer: University of California Santa Barbara; John O'Donovan: University of California Santa Barbara

Time Evolution of the Importance of Nodes in dynamic Networks
Cl?mence Magnien: LIP6 (CNRS - UPMC); Fabien Tarissan: LIP6 (CNRS - UPMC)

A Case Study for the Churn Prediction in Turksat Internet Service Subscription
Mehmet Gok: TOBB University; Tansel Ozyer: TOBB University; Jamal Jida: Lebanese University

28 August
(1: 30-3: 30 PM) Applications --- FAB 2015 -- S4

Using Arabic Microblogs Features in Determining Credibility
Amal Abdullah AlMansour: King's College London; Costas Iliopoulos: King's College London

Implementation of Chaotic Analysis on Retweet Time Series
Yuanyuan Bao: Tsinghua University; Chengqi Yi: Harbin University of Science and Technology; Jingchi Jiang: Harbin University of Science and Technology; Yibo Xue: Tsinghua University; Yingfei Dong: University of Hawaii

The Good, the Bad and their Kins: Identifying Questions with Negative Scores in StackOverflow
Piyush Arora: Dublin City University; Debasis Ganguly: Dublin City University; Gareth Jones: Dublin City University

Mining Open and Crowdsourced Data to Improve Situational Awareness for Railway
Syed Sadiqur Rahman: School of Electronic, Electrical and Systems Engineering, University of Birmingham; John M. Easton: School of Electronic, Electrical and Systems Engineering, University of Birmingham; Clive Roberts: University of Birmingham

Streaming Linear Regression on Spark MLlib and MOA
Baris Akgun: Istanbul Technical University; Sule Gunduz ???d?c?: Istanbul Technical University

Demo Papers @ ASONAM 2015 (Each paper will have 3 minutes presentation during the posters/Demos session on 25 August 2015 4:00-6:00 PM) (Posters should be 120 x90 CM)

3D DynNetVis - A 3D Visualization Technique for Dynamic Networks
Tilman G?hnert: University Duisburg-Essen; Sabrina Ziebarth: University of Duisburg-Essen; Henrik Detjen: University of Duisburg-Essen; Tobias Hecking: University of Duisburg-Essen; H. Ulrich Hoppe: University of Duisburg-Essen

A reliable and evolutive web application to detect social capitalists
Nicolas Dugu?: LIFO - University d'Orleans; Anthony Perez: LIFO - University d'Orleans; Maximilien Danisch: Laboratoire d'Informatique Paris 6; Florian Bridoux: University d'Orleans; Am?lie Daviau: University d'Orleans; Tennessy Kolubako: University d'Orleans; Simon Munier: University d'Orleans; Hugo Durbano: University d'Orleans

A Test-Bed for Generating Social Graphs and Recommending Named Groups from Email
Andrew Ghobrial: UNC Chapel Hill; Jacob W. Bartel: UNC Chapel Hill; Andrew Vitkus: UNC Chapel Hill; Prasun Dewan: UNC Chapel Hill

Analyzing Event Opinion Transition through Summarized Emotion Visualization
Fernando Calderon: National Tsing Hua University; Chun-Hao Chang: National Tsing Hua University; Carlos Argueta: National Tsing Hua University; Elvis Saravia: National Tsing Hua University; Yi-Shin Chen: National Tsing Hua University

EmoViz: Mining the World's Interest through Emotion Analysis
Elvis Saravia: National Tsing Hua University; Carlos Argueta: National Tsing Hua University; Yi-Shin Chen: National Tsing Hua University

Muna: a Multiplex Network Analysis Library
Issam Falih: LIPN CNRS UMR 7030; Rushed Kanawati: University Paris 13

Predicting Email Recipients
Zvi Sofershtein: The Hebrew University of Jerusalem; Sara Cohen: The Hebrew University of Jerusalem

GraphExploiter: Creation, Visualization and Algorithms on graphs
Victor Lequay: University Claude Bernard Lyon 1; Alexis Ringot: University Claude Bernard Lyon 1; Mohammed Haddad: University Claude Bernard Lyon-1; Brice Effantin: University Claude Bernard Lyon 1; Hamamache Kheddouci: University Claude Bernard Lyon 1

PhD Forum -- Posters – ASONAM 2015 (Each paper will have 3 minutes presentation during the posters/Demos session on 25 August 2015 4:00-6:00 PM) (Posters should be 120 x90 CM)

Classification of Trading Networks with Combinatorial Optimization
Stefan Wiesberg: Institut fuer Informatik, Universitaet Heidelberg

Leveraging Pittsburgh's Energy Efficiency Social Network to Predict Next Adopters
Nichole Hanus: Carnegie Mellon University; Mitchell Small: Carnegie Mellon University; Gabrielle Wong-Parodi: Carnegie Mellon University; Iris Grossmann: Carnegie Mellon University

Linear Threshold Model in Temporal Networks - Seed Selection for Social Influence
Radoslaw Michalski: Wroclaw University of Technology

Predicting Community Evolution in Social Networks
Stanislaw Saganowski: Wroclaw University of Technology

Research Track – Posters @ ASONAM 2015 (Each paper will have 3 minutes presentation during the posters/Demos session on 25 August 2015 4:00-6:00 PM) (Posters should be 120 x90 CM)

A Hybrid Epidemic Model for Antinormative Behavior in Online Social Networks
Cong Liao: The Pennsylvania State University; Anna Squicciarini: The Pennsylvania State University; Christopher Griffin: United States Naval Academy; Sarah Rajtmajer: The Pennsylvania State University

Analyzing the activity of a person in a chat by combining network analysis and fuzzy logic
Sude Tavassoli: Technical University of Kaiserslautern; Katharina Anna Zweig: Technische University Kaiserslautern

AttitudeBuzz: Using Social Media Data to Localize Complex Attitudes
Jason Cohn: Northwestern University; Alex Kuntz: Northwestern University; Larry Birnbaum: Northwestern University

Dynamics of Multi-Campaign Propagation in Online Social Networks
Thejaswi M: NITK Surathkal; Sriniketh Vijayaraghavan: New York University; Avinash Das: NITK Surathkal; P. Santhi Thilagam: NITK Surathkal

Enriching Arabic Tweets Representation based on Web Search Engine and the Rough Set Theory
Mohammed Bekkali: E.N.S.A,University Sidi Mohamed Ben Abdellah (USMBA),Fez, Morocco; Issam Sahmoudi: E.N.S.A,University Sidi Mohamed Ben Abdellah (USMBA),Fez, Morocco; Abdelmonaime Lachkar: E.N.S.A,University Sidi Mohamed Ben Abdellah (USMBA),Fez, Morocco

EnTwine: Feature Analysis and Candidate Selection for Social User Identity Aggregation
Niyati Chhaya: Adobe Research; Dhwanit Agarwal: Indian Institute of Technology, Kanpur; Nikaash Puri: Adobe Systems; Paridhi Jain: IIIT-Delhi; Deepak Pai: Adobe Systems

Exploring Visual Stability in Dynamic Graph Drawings: A Case Study
Alfredo Ramos Lezama: University of Duisburg-Essen; Irene-Angelica Chounta: University of Duisburg-Essen; Tilman G?hnert: University Duisburg-Essen; H. Ulrich Hoppe: University of Duisburg-Essen

Features for mood prediction in social media
Mahnaz Roshanaei: cu boulder; Richard Han: University of Colorado Boulder; Shivakant Mishra: University of Colorado Boulder

Finding Posts in Digital Libraries of Authors with Garbled Names
Adam Ondrejka: VSB - Technical University of Ostrava; Petr Saloun: VSB-TU Ostrava; Jakub Stonawski: VSB-Technical University of Ostrava; Ivan Zelinka: FEI VSB-Technical University of Ostrava

Is Normalized Mutual Information a Fair Measure for Comparing Community Detection Methods?
Alessia Amelio: CNR-ICAR; Clara Pizzuti: CNR-ICAR

Mining Streaming Tweets for Real-Time Event Credibility Prediction in Twitter
Jun Zou: Georgia Tech; Faramarz Fekri: Georgia Tech; Steven W. McLaughlin: Georgia Tech

Modelling time evolving interactions in networks through a non stationary extension of stochastic block models
Marco Corneli: University Paris 1 Panth?on-Sorbonne; Pierre Latouche: Paris 1 University; Fabrice Rossi: Paris 1 University

On Influence Maximization to Target Users in the Presence of Multiple Acceptances
Chien-Wei Chang: National Cheng Kung University; Mi-Yen Yeh: Academia Sinica; Kun-Ta Chuang: National Cheng Kung University

Opinion Mining in Twitter: How to Make Use of Sarcasm to Enhance Sentiment Analysis
Mondher Bouazizi: Keio University; Tomoaki Ohtsuki: Keio University

Overlapping Communities via k-Connected Ego Centered Groups
G?nce Keziban Orman: galatasaray university; Onur Karadeli: Vodafone Teknoloji Hizmetleri A.?. (OKSIJEN); Emre ?al???r: Vodafone Teknoloji Hizmetleri A.?. (OKSIJEN)

Phonetic Normalization of Microtext
Richard Khoury: Lakehead University

Privacy Preservation in Social networks through alpha – anonymization techniques
Saptarshi Chakraborty: VIT University; Bala Krushna Tripathy: VIT University

Reconstructing Dynamic Social Network by Choosing Local Maximum Degree Substitute
Shiou-Chi Li: Dept. of Electrical Engineering, National Cheng Kung University, Tainan, Taiwan; Yu Hao Ke: Dept. of Electrical Engineering, National Cheng Kung University, Tainan, Taiwan; Fa-Yuan Liu: Dept. of Electrical Engineering, National Cheng Kung University, Tainan, Taiwan; Jen-Wei Huang: Dept. of Electrical Engineering, National Cheng Kung University, Tainan, Taiwan

Reformulations of the Map Equation for Community Finding and Block modelling
Neil Hurley: Insight Centre for Data Analytics; Erika Duriakova: Insight Centre for Data Analytics

Signed Social Networks: Link Prediction and Overlapping Community Detection
Mohsen Shahriari: RWTH Aachen University; Ralf Klamma: RWTH Aachen University

Toward Order-of-Magnitude Cascade Prediction
Ruocheng Guo: Arizona State University; Elham Shaabani: Arizona State University; Abhinav Bhatnagar: Arizona State University; Paulo Shakarian: Arizona State University

Uncovering the Structure of Knowledge Exchange in a MOOC Discussion Forum
Tobias Hecking: University of Duisburg-Essen; Andreas Harrer: Technical University of Clausthal; H. Ulrich Hoppe: University of Duisburg-Essen

Understanding Spreading Patterns on Social Networks Based on Network Topology
Yayati Gupta: INDIAN INSTITUTE OF TECHNOLOGY, ROPAR; Sudarshan Iyengar: Indian Institute of Technology; Akrati Saxena: INDIAN INSTITUTE OF TECHNOLOGY, ROPAR, INDIA

Detailed Program of the Multidisciplinary Track @ ASONM 2015

Political and organizational networks   Multidisciplinary S1 2h 5 papers
(20 minutes per presentation + 20 discussion)

Methods and algorithms for network data analysis   Multidisciplinary S2 2h 5 papers
(20 minutes per presentation + 20 discussion)

Advances in Social Network Analysis for cultural networks   Multidisciplinary S3 1.5h 4 papers
(20 minutes per presentation + 10 discussion)

Understunding Behaviours and Dynamics in Social Networks   Multidisciplinary S4 1.5h 5 papers
(20 minutes per presentation + 20 discussion)

Multidisciplinary S1	
Political and organizational networks	
Assessing the Translational Capacity of Three CTSA Institutions	Charisse Madlock-Brown and David Eichmann
Policy Oriented Exchange Networks:Was a Copenhagen Climate Treaty Possible? Scientific Analysis Providing New Insights for Agreement and a Better Treaty for the Planet.	Frans N. Stokman
Generating Social Network Data – Lessons Learned from Field Research in Ghana's Petroleum Sector	Johanna Rapp
Is the corporate elite disintegrating? Interlock boards and the Mizruchi hypothesis	Kevin Mentzer, Francois-Xavier Dudouet, Dominique Haughton, Pierre Latouche and Fabrice Rossi
How Do Online Social Networks Support Decision Making? A Pluralistic Research Agenda	Valeria Sadovykh and David Sundaram
Multidisciplinary S2	
Methods and algorithms for network data analysis	
Hackers Topology matter geography. Mapping the Dynamics of Repeated System Trespassing Events Networks	Amit Rechavi, Tamar Berenblum, David Maimon and Ido Sivan Sevilla
Semantics-Based Cross-domain Collaboration Recommendation in the Life Sciences: Preliminary Results	Dimitar Hristovski, Andrej Kastrin and Thomas C. Rindflesch
Archetypal Networks	Giancarlo Ragozini and Marai Rosaria D'Esposito
Mining Social Media Streams to Improve Public Health Allergy Surveillance	Kathy Lee, Ankit Agrawal and Alok Choudhary
Fast community structure local uncovering by independent node-centered process	Mäel Canu, Marcin Detyniecki, Marie-Jeanne Lesot and Adrien Revault d'Allonnes

Multidisciplinary S3
Advances in Social Network Analysis for cultural networks

Social Network Analysis of TV Drama Characters via Deep Concept Hierarchies	Chang-Jun Nan, Kyung-Min Kim, and Byoung-Tak Zhang
Exploring the Italian Erasmus Agreements by a Network Analysis Perspective	Kristijan Breizink and Giacarlo Ragozini
The invisible cultural heritage in spatial organization	Yun-Shang Chiou and Yohana Natalia Cahyono
Voting algorithm in the play Julius Caesar	Zvi Lotker

Multidisciplinary S4
Understanding Behaviours and Dynamics in Social Networks

Optimal Influence Strategies in Social Networks	Christos Bilanakos, Ifigeneia Georgoula, Dionisios N. Sotiropoulos and George M. Giaglis
Weak Signals as Predictors of Real-World Phenomena in Social Media	Christos Charitonidis, Awais Rashid and Paul J. Taylor
A Time-Variant and Non-Linear Model of Opinion Formation in Social Networks	Dionisios N. Sotiropoulos, Christos Bilanakos and George M. Giaglis
Social Circle Discovery in Ego-Networks by Mining the Latent Structure of User Connections and Profile Attributes	Georgios Petkos, Symeon Papadopoulos and Yiannis Kompatsiaris
Social Interactions vs Revisions, What Is Important for Promotion in Wikipedia?	Romain Picot-Clémente, Cécile Bothorel, Nicolas Jullien

Detailed Program of the Industrial Track @ ASONAM 2015

Session 1 (chair Jiabin Zhao) - Friday 28 August 2015, 10:30-12:30

. Is Web Content a Good Proxy for Real-Life Interaction? A Case Study Considering Online and Offline Interactions of Computer Scientists
Mark Kibanov, Martin Atzmueller, Jens Illig, Christoph Scholz, Alain Barrat, Ciro Cattuto and Gerd Stumme

. Combining Local and Social Network Classifiers to Improve Churn Prediction
Aimee Backiel, Yannick Verbinnen, Bart Baesens and Gerda Claeskens

. AFRAID: Fraud Detection via Active Inference in Time-Evolving Social Networks
Veronique Van Vlasselaer, Tina Eliassi-Rad, Leman Akoglu, Monique Snoeck and Bart Baesens

. Star Search: Effective Subgroups in Collaborative Social Networks
Ben Baumer, George Rabanca, Amotz Bar-Noy and Prithwish Basu

. Revealing Censored Information through Comments and Commenters in Online Social Networks
Giuseppe Cascavilla, Mauro Conti, David Schwartz and Inbal Yahav

. Privacy Concerns versus User Behavior in Community Question Answering
Imrul Kayes, Nicolas Kourtellis and Adriana Iamnitchi

Session 2: (chair Zbigniew Smoreda) - Friday 28 August 2015, 1:30-3:30 PM

. A Comparative Evaluation of Urban Fabric Detection Techniques Based on Mobile Traffic Data
Angelo Furno, Razvan Stanica and Marco Fiore

. Query-based Graph Cuboid Outlier Detection
Ayushi Dalmia, Manish Gupta and Vasudeva Varma

. A Visual Framework for Clustering Memes in Social Media
Anh Dang, Abidalrahman Moh'd, Anatoliy Gruzd, Evangelos Milios and Rosane Minghim

. Identifying Influential Users in On-line Support Forums using Topical Expertise and Social Network Analysis
Tyler Munger and Jiabin Zhao

. Overcoming Data Scarcity of Twitter: Using Tweets as Bootstrap with Application to Autism-Related Topical Content Analysis
Adham Beykikhoshk, Ognjen Arandjelovic, Dinh Phung and Svetha Venkatesh

. Stay Awhile and Listen: User Interactions in a Crowdsourced Platform Offering Emotional Support
Derek Doran, Luisa Massari, Maria-Carla Calzarossa, Latrelle Jackson, Glen Moriarty and Samir Yelne

25 August Workshops Program

SNAA 8 papers
MANEM 7 papers+1Talk
MSNDS 10 papers
SOMERIS 7 papers +Talk
Dyno 10 papers+1 Talk

8:30-10:00 (4 papers)	SOMERIS	MANEM	DYNO
10:30-12:30 (6 papers)	SOMERIS	MANEM	DYNO
13:30-15:30 (6 papers)	SNAA	MSNDS	
16:00-18:00 (6 papers)	SNAA	MSNDS	

Program of SOMERIS 2015

- GUSDORF Raphael (AXA) 8:30 - 9:15
- 9:15 - 9:35 - Privacy Tips: Would it be ever possible to empower on-line social network users to control the confidentiality of their data?, Vladimir Estivill-Castro and David F. Nettleton
- 9:35 - 9:55 Finding compact communities in large graphs, Jean Creusefond, Thomas Largillier and Sylvain Peyronnet
- 9:55 -10:15 Community-Preserving Generalization of Social Networks, Jordi Casas-Roma and François Rousseau

coffee - break
- Françoise Soulié (AXA) 11:00 - 11:45
- 11:45 - 12:05 - Graph-Based Term Weighting for Text Categorization, Fragkiskos D. Malliaros and Konstantinos Skianis
- 12:05 - 12:25 - Multi-layered graph-based model for social engineering vulnerability assessment, Omar Jaafor and Babiga Birregah
- 12:25 - 12:45 - TipMe: Personalized advertising and aspect-based opinion mining for users and businesses   Dimitris Proios, Magdalini Eirinaki and Iraklis Varlamis
- 12:45 - 13:05 - Feature Extraction and Analysis for Identifying Disruptive Events from Social Media, Nasser Alsaedi and Pete Burnap

Program of MANEM 2015

8:30-8:40 AM: Introduction to the Workshop

8:40 – 10:00 AM : Multiplex Network session
20 mns per paper including 5 mns for questions

Community Detection in Multiplex Networks using Locally Adaptive Random Walks
Zhana Kuncheva and Giovanni Montana
MuNeG - The Framework for Multilayer Network Generator
Adrian Popiel, Przemysław Kazienko and Tomasz Kajdanowicz
Generating Multidimensional Social Network to Simulate the Dissemination of Information
Mathilde Forestier, Jean-Yves Bergier, Youssef Bouanan, Judicael Ribault, Gregory Zacharewicz, Bruno Vallespir and Colette Faucher
A multiplex-network based approach for clustering ensemble selection
Parisa Rastin and Rushed Kanawati

10:30-11:30 Invited Talk Osmar Zaïane

11:30- 12:30 Attributed Network session
20 mns per paper including 5 mns for questions

Local rules associated to k-communities in an attributed graph
Henry Soldano, Guillaume Santini and Dominique Bouthinon
Centrality for graphs with numerical attributes
Oualid Benyahia and Christine Largeron
Overcoming Data Scarcity of Twitter: Using Tweets as Bootstrap with Application to Autism-Related Topic Content Analysis
Adham Beykikhoshk, Ognjen Arandjelovic, Dinh Phung and Svetha Venkatesh

Program of Dyno 2015

08:30-09:00 Invited Speaker: Remy Cazabet (title to be decided)

09:00-09:20 Paolo Barucca and Fabrizio Lillo. Disentangling bipartite and core-periphery structure in networks
09:20-09:40 Rajesh Sharma, Matteo Magnani and Danilo Montesi. Understanding community patterns in large attributed social networks
09:40-10:00 Nagehan Ilhan and Şule Gündüz Öğüdücü. Predicting Community Evolution based on Time Series Modeling
10:30-10:50 Jordan Viard, Matthieu Latapy and Clemence Magnien. Revealing contact patterns among high-school students using maximal cliques in link streams
10:50-11:10 Amir Afrasiabi Rad, Paola Flocchini and Joanne Gaudet. Tempus Fugit: The Impact of Time in Knowledge Mobilization Networks
11:10-11:30 Gennaro Cordasco, Luisa Gargano and Adele Anna Rescigno. Influence Propagation over Large Scale Social Networks
11:30-11:50 Shodai Mihara, Sho Tsugawa and Hiroyuki Ohsaki. Influence Maximization Problem for Unknown Social Networks
11:50-12:10 Martine Collard, Philippe Collard, Laurent Brisson and Erick Stattner. Rumor Spreading Modeling: Profusion versus Scarcity
12:10-12:30 Alexandre Reiffers-Masson, Eitan Altman and Yezekael Hayel. Posting behavior in Social Networks and Content Active Filtering

Program of SNAA 2015
Session 1
·	SNAA opening
·	Christoph Fuchs and Georg Groh. Appropriateness of Search Engines, Social Networks and Directly Approaching Friends to Satisfy Information Needs
·	Renato Miranda Filho, Jussara Almeida and Gisele Pappa. Twitter Population Sample Bias and its impact on predictive outcomes: a case study on elections
·	Sarka Zehnalova, Milos Kudelka and Zdenek Horak. Email Conversation Network Analysis: Work Groups and Teams in Organizations
·	Nima Dokoohaki, Filippia Zikou, Daniel Gillblad and Mihhail Matskin. Predicting Swedish Elections with Twitter: A Case for Stochastic Link Structure Analysis
Session 2
·	Anna Kowalska-Pyzalska, Katarzyna Maciejowska, Rafał Weron and Katarzyna Sznajd-Weron. Diffusion and adoption of dynamic electricity tariffs: An agent-based modeling approach
·	Ran Cheng, Jun Pang and Yang Zhang. Inferring Friendship from Check-in Data of Location-Based Social Networks
·	Jean-Philippe Attal and Maria Malek. A New Label Propagation With Dams
·	Juliana S. Silva and Antonio Mauro Saraiva. A Methodology for Applying Social Network Analysis Metrics to Biological Interaction Networks
·	Closing and Best Paper Award

Program of MSNDS 2015

13:30-13:50 Arijit Chatterjee and Dr.William Perrizo
Classifying Stocks using P-Trees and Investor Sentiment
13:50-14:10 Fatih Ozgul and Zeki Erdem
Deciding Resilient Criminal Networks
14:10-14:30 Santosh Kumar Bharti, Korra Sathya Babu and Sanjay Kumar Jena
Parsing-based Sarcasm Sentiment Recognition in Twitter Data
14:30-14:50 Hoang Nguyen, Rachel Richards, Chien-Chung Chan and Kathy J. Liszka
RedTweet: Recommendation Engine for Reddit
14:50-15:10 Ibrahima Gaye, Gervais Mendy, Samuel Ouya and Diaraf Seck
Spanning graph for maximizing the influence spread in Social Networks
15:10-15:30 Julio Cesar; Louzada Pinto and Eitan Altman
Trend detection in social networks using Hawkes processes
16:00-16:20 Arun Pandey, Roshni Chakraborty, Soumya Sarkar and Joydeep Chandra
Analyzing Link Dynamics in Scientific Collaboration Networks --- A Social Yield Based Perspective
16:20-16:40 Souhila Benmakrelouf, Neila Mezghani and Nadjia Kara
Towards the Identification of Players' Profiles Using Game's Data Analysis Based on Regression
Model and Clustering
16:40-17:00 Chyi-In Wu
The Impact of Co-evolution of Dynamic Networks Upon Adolescent Deviant Behaviors
17:00-17:20 Chung-Hong Lee, Hsin-Chang Yang and Shih-Jan Lin
Incorporating Big Data and Social Sensors in a Novel Early Warning System of Dengue Outbreaks
17:20-17:40 Majed Alrubaian, Muhammad Al-Qurishi, Mabrook Al-Rakhami, Sk. Md. Mizanur Rahman
and Atif Alamri
A Multistage Credibility Analysis Model for Microblogs