



The 2014 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining

ASONAM 2014

Beijing, China August 17-20, 2014

Registration: August 16 th 12:00 - 18:00 and 17 th 8:00 - 8:30				
August 17, 2014 (Workshops & Tutorials)				
08:30	Convention Hall 5A	Convention Hall 5B	Convention Hall 5G	Convention Hall 5H
- 10:00	Tutorial 1	C3 – S1	URUGC – S1	SNAA – S1
Coffee Break				
10:30	Convention Hall 5A	Convention Hall 5B	Convention Hall 5G	Convention Hall 5H
- 12:30	Tutorial 1	C3 – S2	URUGC – S2	SNAA – S2
Lunch Lijiang Hall				
13:30	Convention Hall 5A	Convention Hall 5B	Convention Hall 5G	Convention Hall 5H
- 15:30	Tutorial 2		URUGC – S3	SNAA – S3
Coffee Break				
16:00	Convention Hall 5A			
- 17:00	Tutorial 2			

August 18, 2014 (Main Conference)

Main Convention Hall					
08:00 - 08:30	Opening Ceremony				
Main Convention Hall					
08:30 - 10:00	Keynote Speaker 1: Charu Aggarwal <i>Chair: Martin Ester</i>				
Coffee Break					
10:30 - 12:30	Convention Hall 5A	Convention Hall 5B	Convention Hall 5G	Convention Hall 5H	Main Convention Hall
	ASONAM – S1 Community Detection & Analysis (I)	ASONAM – S2 Behavior Analysis (I)	ASONAM – S3 Graph Modeling & Analysis (I)	FOSINT-SI – S1	HI-BI-BI – S1
Lunch Lijiang Hall					
13:30 - 15:30	Convention Hall 5A	Convention Hall 5B	Convention Hall 5G	Convention Hall 5H	Main Convention Hall
	ASONAM – S4 Community Detection & Analysis (II)	ASONAM – S5 Behavior Analysis (II)	ASONAM – S6 Graph Modeling & Analysis (II)	FOSINT-SI – S2	HI-BI-BI – S2
Coffee Break					
16:00-17:30	Panel Discussion Main Convention Hall “Influence in social networking and its effective analysis and mining in the era of electronic communication” <i>Moderator: Szymanski Bolek, Rensselaer Polytechnic Institute, USA</i> <i>Panelists: Garry Robins, University of Melbourne, Australia</i> <i>Jiabin Zhao, CISCO Inc, USA</i>				

	<p><i>Przemysław Kazienko, Wrocław University of Technology, Poland</i> <i>Xindong Wu, The University of Vermont, USA and Hefei University of Technology</i></p>
17:30-18:00	<p>Invited Speaker: Zhaoli Meng, <i>Head of Information Economics Center, Tencent Internet and Society Institute</i> ZhuTing Pan, <i>Beijing Venustech Information Technology Co., Ltd</i></p>
<p>Ballroom Reception Demo session</p>	

<p>August 19, 2014 (Main Conference)</p>					
08:30 - 10:00	<p>Main Convention Hall Keynote Speaker 2: Garry Robins Chair: Guandong Xu</p>				
<p>Coffee Break</p>					
10:30 - 12:30	<p>Convention Hall 5A</p>	<p>Convention Hall 5B</p>	<p>Convention Hall 5G</p>	<p>Convention Hall 5H</p>	
	<p>ASONAM – S7 Community Detection & Analysis (III)</p>	<p>ASONAM – S8 Behavior Analysis (III)</p>	<p>ASONAM – S9 Anomalous Behavior</p>	<p>FOSINT-SI – S3</p>	
<p>Lunch Lijiang Hall</p>					
13:30 - 18:00	<p>Excursion 13:30 Gather at Gate NO.19 For Excursion 17:30 Gather at Gate NO.19 For Banquet</p>				
<p>Grand Mansion Restaurant Performance Banquet</p>					

August 20, 2014 (Main Conference)

08:30 - 10:00	Main Convention Hall				
	Keynote Speaker 3: Binxing Fang <i>Chair: Xindong Wu</i>				
Coffee Break					
10:30 - 12:30	Convention Hall 5A	Convention Hall 5B	Convention Hall 5G	Convention Hall 5H	Main Convention Hall
	ASONAM – S10 Diffusion	ASONAM – S11 Social Media Analysis (I)	ASONAM – S12 Question & Answering Network Analysis	ASONAM – S13 Microblog Analysis	Industrial Track - S1
Lunch Lijiang Hall					
13:30 - 15:30	Convention Hall 5A	Convention Hall 5B	Convention Hall 5G	Convention Hall 5H	Main Convention Hall
	ASONAM – S14 Event &Pattern Detection	ASONAM – S15 Social Media Analysis (II)	ASONAM – S16 Social Influence (I)	ASONAM – S17 User Profiling & Modeling	Industrial Track – S2
Coffee Break					
16:00 - 18:00	Convention Hall 5A	Convention Hall 5B	Convention Hall 5G		Main Convention Hall
	ASONAM – S18 Agent, Sentiment and Label Analysis	ASONAM – S19 Social Media Analysis (III)	ASONAM – S20 Social Influence (II)		Industrial Track – S3
Closing					

August 20, 2014 (Main Conference)

08:30 - 10:00	Convention Hall 5 [ABHG]				
Keynote Speaker 3: Gary Robins					
Coffee Break					
10:30 - 12:30	Convention Hall 5C	Convention Hall 5D	Convention Hall 5F	Convention Hall 5E	Convention Hall 5[ABHG]
	ASONAM – S10 Diffusion	ASONAM – S11 Social Media Analysis (I)	ASONAM – S12 Question & Answering Network Analysis	ASONAM – S13 Microblog Analysis	Industrial Track - S1
Lunch Lijiang Hall					
13:30 - 15:30	Convention Hall 5C	Convention Hall 5D	Convention Hall 5F	Convention Hall 5E	Convention Hall 5[ABHG]
	ASONAM – S14 Event &Pattern Detection	ASONAM – S15 Social Media Analysis (II)	ASONAM – S16 Social Influence (I)	ASONAM – S17 User Profiling & Modeling	Industrial Track – S2
Coffee Break					
16:00 - 18:00	Convention Hall 5C	Convention Hall 5D	Convention Hall 5F		Convention Hall 5[ABHG]
	ASONAM – S18 Agent, Sentiment and Label Analysis	ASONAM – S19 Social Media Analysis (III)	ASONAM – S20 Social Influence (II)		Industrial Track – S3
Closing					

Main Conference Program

ASONAM – S1: Community Detection & Analysis (I)

Session Chair: Shuyuan Jin

1. (A337) *A Local Seed Selection Algorithm for Overlapping Community Detection (Regular)*
Farnaz Moradi, Tomas Olovsson, and Philippos Tsigas
2. (A277) *Community Evolution Prediction in Dynamic Social Networks (Regular)*
Mansoureh Takaffoli, Reihaneh Rabbany, and Osmar Zaiane
3. (A342) *Overlapping Stochastic Community Finding (Short)*
Aaron McDaid, Neil Hurley, and Brendan Murphy
4. (A262) *rLinkTopic: A Probabilistic Model for Discovering Regional LinkTopic Communities (Short)*
Canh Tran Van and Michael Gertz
5. (A233) *A Uniform Framework for Community Detection via Influence Maximization in Social Networks (Short)*
Fei Jiang, Shuyuan Jin, Yanlei Wu, and Jin Xu

ASONAM – S2: Behavior Analysis (I)

Session Chair: Tansel Ozyer

1. (A373) *Gossip-based Partitioning and Replication for Online Social Networks (Regular)*
Muhammad Anis Uddin Nasir, Fatemeh Rahimian, and Sarunas Girdzijauskas
2. (A392) *Online Evaluation Re-scoring based on Review Behavior Analysis (Regular)*
Rong Zhang, XiaoFeng He, Aoying Zhou, and Chaofeng Sha
3. (A349) *Understanding Lurking Behaviors in Social Networks across Time (Short)*
Andrea Tagarelli and Roberto Interdonato
4. (A330) *Start-up firms' networks for innovation: Embedded in entrepreneurs' networks in private and public spheres (Short)*
Kent Wickstrom Jensen and Thomas Schott

ASONAM – S3: Graph Modeling & Analysis (I)

Session Chair: Ravi Sundaram

1. (A424) *A New Space for Comparing Graphs (Regular)*
Anshumali Shrivastava and Ping Li
2. (A290) *A Model of Consistent Node Types in Signed Directed Social Networks (Regular)*
Dongjin Song and David Meyer
3. (A375) *Name Disambiguation from link data in a collaboration graph (Short)*
Baichuan Zhang, Tanay Kumar Saha, and Mohammad Al Hasan
4. (A391) *A Backbone Extraction Method with Local Search for Complex Weighted Networks (Short)*
Zhan Bu, Zhiang Wu, Liqiang Qian, Jie Cao, and Guandong Xu
5. (A298) *Efficient Algorithm for Ranking of Nodes' Importance in Information Dissemination (Short)*
Zhuo Qi Lee, Wen-Jing Hsu, and Miao Lin

ASONAM – S4: Community Detection & Analysis (II)

Session Chair: Piotr Brodka

1. (A293) *A Unified Generative Bayesian Model for Community Discovery and Role Assignment based upon Latent Interaction Factors* (**Regular**)
Gianni Costa and Riccardo Ortale
2. (A350) *Community Detection in Dynamic Social Networks: A Game-Theoretic Approach* (**Regular**)
Hamidreza Alvari, Alireza Hajibagheri, and Gita Sukthankar
3. (A274) *Using Triads to Identify Local Community Structure in Social Networks* (**Short**)
Justin Fagnan, Osmar Zaiane, and Denilson Barbosa
4. (A213) *An Modularity-based Overlapping Community Structure Detecting Algorithm* (**Short**)
Kui MENG, Gongshen Liu, Qiong HU, and Jianhua LI
5. (A318) *Overlapping community detection in large network from a data fusion view* (**Short**)
Le Yu, Bin Wu, Shuai Zhao, and Bai Wang

ASONAM – S5: Behavior Analysis (II)

Session Chair: Anshumali Shrivastava

1. (A360) *The Network You Keep: Analyzing Persons of Interest using Cliqster* (**Regular**)
Saber Shokat Fadaee, Mehrdad Farajtabar, Ravi Sundaram, Javed A. Aslam, and Nikos Passas
2. (A326) *Automatic Classification of Scientific Groups as Productive: An Approach based on Motif Analysis* (**Regular**)
Tanmoy Chakraborty, Niloy Ganguly, and Animesh Mukherjee
3. (A346) *Behavioral Detection of Spam URL Sharing: Posting Patterns versus Click Patterns* (**Short**)
Cheng Cao and James Caverlee
4. (A327) *Interactions Around Social Networks Matter: Predicting the social network from associated interaction networks* (**Short**)
Mohammed Abufouda and Katharina Zweig
5. (A325) *Constructing social networks from semi-structured chat-log data* (**Short**)
Sude Tavassoli, Markus Moessner, and Katharina Zweig

ASONAM – S6: Graph Modeling & Analysis (II)

Session Chair: Takashi Ishikawa

1. (A209) *Detecting Malicious Clients in ISP Networks Using HTTP Connectivity Graph and Flow Information* (**Regular**)
Lei Liu, Sabyasachi Saha, Ruben Torres, Jianpeng Xu, Pang-Ning Tan, Antonio Nucci, and Marco Mellia
2. (A310) *Triggering Patterns of Topology Changes in Dynamic Graphs* (**Regular**)
Mehdi Kaytoue, Yoann Pitarch, Marc Plantevit, and Céline Robardet
3. (A241) *Indexing Bipartite Memberships in Web Graphs* (**Regular**)
Yusheng Xie, Zhengzhang Chen, Diana Palsetia, Ankit Agrawal, and Alok Choudhary
4. (A279) *Two Phase Transitions in the Adaptive Voter Model based on the Homophily Principle* (**Short**)
Takashi Ishikawa

ASONAM – S7: Community Detection & Analysis (III)

Session Chair: Shenghong Li

1. (A227) *Extremal Optimization-based Semi-Supervised Algorithm with Conflict Pairwise Constraints for Community Detection (Regular)*
Lei Li, Mei Du, GUANFENG LIU, Xuegang Hu, and Gongqing Wu
2. (A348) *Accurately Detecting Trolls in Slashdot Zoo via Decluttering (Regular)*
Srijan Kumar, Francesca Spezzano, and V.S. Subrahmanian
3. (A247) *Detecting Highly Overlapping Community Structure Based on Maximal Clique Networks (Short)*
Peng Wu and Li Pan
4. (A341) *An Ant Colony Optimization Method to Detect Communities in Social Networks (Short)*
Saeed Haji Seyed Javadi, Shahram Khadivi, M. Ebrahim Shiri, and Jia Xu
5. (A211) *Scanning Network Communities with Power-Law-Distributed Attributes (Short)*
Tai-Chi Wang and Frederick Kin Hing Phoa

ASONAM – S8: Behavior Analysis (III)

Session Chair: Guandong Xu

1. (A393) *Do Neighbor Buddies Make a Difference in Reblog Likelihood? An Analysis on SINA Weibo Data (Regular)*
Lumin Zhang, Jian Pei, Yan Jia, Bin Zhou, and Xiang Wang
2. (A280) *Can you really trust that seed?": Reducing the Impact of Seed Noise in Personalized PageRank (Regular)*
Shengyu Huang, Xinsheng Li, K. Selcuk Candan, and Maria Luisa Sapino
3. (A234) *Discovering Trust Patterns in Ego Networks (Short)*
Cuneyt Gurcan Akcora and Elena Ferrari
4. (A261) *Topic Dynamics in Weibo: Happy Entertainment Dominates but Angry Finance is More Periodic (Short)*
Rui Fan, Jichang Zhao, Xu Feng, and Ke Xu
5. (A207) *Time-aware Reciprocity Prediction in Trust Network (Short)*
Xu Feng, Jichang Zhao, Zhiwen Fang, and Ke Xu

ASONAM – S9: Anomalous Behavior

Session Chair: Shivakant Mishra

1. (A228) *A fuzzy clustering algorithm to detect criminals without prior information (Regular)*
Changjun Fan, Kaiming Xiao, Baoxin Xiu, and Guodong Lv
2. (A357) *Towards Understanding Cyberbullying Behavior in a Semi-Anonymous Social Network (Regular)*
Homa Hosseinmardi, Amir Ghasemianlangroodi, Richard Han, Qin Lv, and Shivakant Mishra
3. (A414) *Measuring UK Crime Gangs (Short)*
Giles Oatley and Tom Crick
4. (A300) *MOSAIC: Criminal Network Analysis for Multi-Modal Surveillance and Decision Support (Short)*
Patrick Seidler, Richard Adderley, Atta Badii, and Matteo Raffaelli
5. (A377) *Towards Online Anti-Opinion Spam: Spotting Fake Reviews from the Review*

Sequence (Short)

Yuming Lin, Tao Zhu, Hao Wu, Jinwei Zhang, Xiaoling Wang, and Aoying Zhou

ASONAM – S10: Diffusion

Session Chair: Martin Ester

1. (A282) *Exploiting Rank-Learning Models to Predict the Diffusion of Preferences on Social Networks (Regular)*
Chin-Hua Tsai, Jing-Kai Lou, Wan-Chen Lu, and Shou-De Lin
2. (A379) *Learning the Information Diffusion Probabilities by Using Variance Regularized EM Algorithm (Regular)*
Haiguang Li, Tianyu Cao, and ZHAO LI
3. (A403) *Cluster Cascades: Infer Multiple Underlying Networks Using Diffusion Data (Short)*
Ming-Hao Yang, Chung-Kuang Chou, and Ming-Syan Chen
4. (A231) *On Macro and Micro Exploration of Hashtag Diffusion in Twitter (Short)*
Yazhe Wang and Baihua Zheng

ASONAM – S11: Social Media Analysis (I)

Session Chair: Niloy Ganguly

1. (A328) *SSRM: Structural Social Role Mining for Dynamic Social Networks (Regular)*
Afra Abnar, Mansoureh Takaffoli, Reihaneh Rabbany, and Osmar Zaiane
2. (A276) *Bio-Inspired Models for Characterizing YouTube View-Count (Regular)*
Cedric Richier, Eitan Altman, Rachid El-Azouzi, Tania Jimenez, Georges Linares, and Yonathan Portilla
3. (A239) *Social networks Analysis in young mothers in the process of rebuilding the social fabric of the victims by the winter in the Colombian Caribbean (South America) (Short)*
Carolina Castro and Camilo Madariaga
4. (A426) *A Semantic Model for Academic Social Network Analysis (Short)*
Jie Hu, Mengchi Liu, and Junchi Zhang
5. (A354) *Are Communities As Strong As We Think? (Short)*
Md Abdul Alim, Alan Kuhnle, and My Thai

ASONAM – S12: Question & Answering Network Analysis

Session Chair: Zhong-Qiu Zhao

1. (A408) *Exploring User Expertise and Descriptive Ability in Community Question Answering (Regular)*
Baoguo Yang and Suresh Manandhar
2. (A230) *Min(e)d Your Tags: Analysis of Question Response Time in StackOverflow (Regular)*
Vasudev Bhat, Adheesh Gokhale, Ravi Jadhav, Jagat Pudipeddi, and Leman Akoglu
3. (A427) *Question Difficulty Evaluation by Knowledge Gap Analysis in Question Answer Communities (Short)*
Chih-Lu Lin, Ying-Liang Chen, and Hung-Yu Kao
4. (A223) *Joint Voting Prediction for Questions and Answers in CQA (Short)*
Yuan Yao, Hanghang Tong, Tao Xie, Leman Akoglu, Feng Xu, and Jian Lu
5. (A390) *Empirical study on overlapping community detection in Question Answer site (Short)*

Zide Meng, Fabien Gandon, Catherine Faron-Zucker, and Ge Song

ASONAM – S13: Microblog Analysis

Session Chair: Shivashankar Subramanian

1. (A376) *Data-Mining Twitter and the Autism Spectrum Disorder: A Pilot Study* **(Regular)**
Adham Beykikhoshk, Ognjen Arandjelovic, Dinh Phung, Svetha Venkatesh, and Terry Caelli
2. (A356) *On the endogenesis of Twitters Spritzer and Gardenhose sample streams* **(Regular)**
Dennis Kergl, Robert Roedler, Sebastian Seeber, and Gabi Dreo Rodosek
3. (A353) *An Analysis of Positivity and Negativity Attributes of Users in Twitter* **(Short)**
mahnaz roshanaei and Shivakant Mishra
4. (A304) *Identifying the Community Roles of Social Capitalists in the Twitter network* **(Short)**
Nicolas Dugué, Vincent Labatut, and Anthony Perez

ASONAM – S14: Event &Pattern Detection

Session Chair: Seong-Bae Park

1. (A257) *Mention-anomaly-based Event Detection and Tracking in Twitter* **(Regular)**
Adrien Guille and Cécile Favre
2. (A347) *Detecting Deception in Online Social Networks* **(Regular)**
Jalal Alowibdi, Ugo Buy, Philip Yu, and Leon Stenneth
3. (A416) *#tag: Meme or Event* **(Short)**
Dimitrios Kotsakos, Panos Sakkos, Ioannis Katakis, and Dimitrios Gunopulos
4. (A415) *Identifying Relevant Event Content for Real-time Event Detection* **(Short)**
Xinyue Wang, Laurissa Tokarchuk, and Stefan Poslad
5. (A397) *Finding Social Interaction Patterns Using Call and Proximity Logs Simultaneously* **(Short)**
Yong-Jin Han, Shao Bo Cheng, SeYoung Park, and Seong-Bae Park

ASONAM – S15: Social Media Analysis (II)

Session Chair: Peng Cui

1. (A323) *Adaptive Post Recognition - Combine Feeds and Linked HTML pages to Generate Blog Templates* **(Short)**
Philipp Berger, Patrick Hennig, Dominic Petrick, Marcel Pursche, and Christoph Meinel
2. (A273) *Online Social Media in the Syria Conflict: Encompassing the Extremes and the In-Betweens* **(Regular)**
Derek O'Callaghan, Nico Prucha, Derek Greene, Maura Conway, Joe Carthy, and Pádraig Cunningham
3. (A219) *Early Detection of Persistent Topics in Social Networks* **(Regular)**
Shota Saito, Ryota Tomioka, and Kenji Yamanishi
4. (A394) *Clearing Contamination in Large Networks* **(Short)**
Michael Simpson, Venkatesh Srinivasan, and Alex Thomo
5. (A336) *Geographic Focus Detection using Multiple Location Taggers* **(Short)**
Philipp Berger, Patrick Hennig, Dustin Glaeser, Hauke Klement, and Christoph Meinel

ASONAM – S16: Social Influence (I)

Session Chair: Ajitesh Srivastava

1. (A255) *Influence Inflation in Online Social Networks (Regular)*
Jianjun Xie, Chuang Zhang, Ming Wu, and Yun Huang
2. (A355) *Multi-Objective Optimization to Identify Key Players in Social Networks (Regular)*
R. Chulaka Gunasekara, Kishan Mehrotra, and Chilukuri K. Mohan
3. (A222) *Influence in Social Networks: A Unified Model? (Short)*
Ajitesh Srivastava, Charalampos Chelmis, and Viktor Prasanna
4. (A242) *Diversified Social Influence Maximization (Short)*
Fangshuang Tang, Qi Liu, Hengshu Zhu, Enhong Chen, and Feida Zhu
5. (A220) *A Computational Approach to Measuring the Correlation between Expertise and Social Media Influence for Celebrities on Microblogs (Short)*
Xin Zhao, Jing Liu, Yulan He, Chin-Yew Lin, and Ji-Rong Wen

ASONAM – S17: User Profiling & Modeling

Session Chair: Guanfeng Liu

1. (A215) *User Characterization From Geographic Topic Analysis in Online Social Media (Regular)*
Jiangchuan Zheng, Siyuan Liu, and Lionel M. Ni
2. (A417) *CRIMETRACER: Activity Space Based Crime Location Prediction (Regular)*
Mohammad Tayebi, Martin Ester, Uwe Glasser, and Patricia Brantingham
3. (A296) *A Method for Characterizing Communities in Dynamic Attributed Complex Networks (Short)*
Günce Keziban Orman, Vincent Labatut, Marc Plantevit, and Jean-François Boulicaut
4. (A425) *Who Were You Talking To - Mining Interpersonal Relationships from Cellphone Network Data (Short)*
Mo Yu, Wenjun Si, Guojie Song, Zhenhui Li, and John Yen
5. (A322) *Alike People, Alike Interests? A Large-Scale Study on Interest Similarity in Social Networks (Short)*
Xiao HAN, Leye WANG, Soochang PARK, Angel CUEVAS, and Noel CRESP

ASONAM – S18: Agent, Sentiment and Label Analysis

Session Chair: Przemek Kazienko

1. (A294) *Agent-Based Simulation Research on Group Emotion Evolution of Public Emergency (Short)*
Li Bo, Sun Duoyong, Lin Zihan, and Ou Chaomin
2. (A303) *Accelerate the detection of Trends by using Sentiment Analysis within the Blogosphere (Short)*
Patrick Hennig, Philipp Berger, Claudia Lehmann, Andrina Mascher, and Christoph Meinel
3. (A345) *Multi-label Collective Classification in Multi-attribute Multi-relational Network Data (Short)*
Priyesh Vijayan, Shivashankar Subramanian, and Balaraman Ravindran

ASONAM – S19: Social Media Analysis (III)

Session Chair: Zhiang Wu

1. (A378) *Penalized Partial Least Squares for Multi-label Data (Regular)*

- Huawen Liu, Zongjie Ma, Jianmin Zhao, and Zhonglong Zheng
2. (A386) *A Unified Modularity by Encoding the Similarity Attraction Feature into the Null Model (Regular)*
Xin Liu, Tsuyoshi Murata, and Ken Wakita
 3. (A367) *A Multi-Generational Social Learning Model: the Effect of Information Cascade on Aggregate Welfare (Short)*
Marziyeh Barghandan, Mohammad Malekzadeh, Atefeh Safdel, and Iren Mazloomzadeh
 4. (A217) *Inferring Air Pollution by Sniffing Social Media (Short)*
Shike Mei, Han Li, Jing Fan, Xiaojin Zhu, and Charles Dyer

ASONAM – S20: Social Influence (II)

Session Chair: Xindong Wu

1. (A251) *ETAF: An Extended Trust Antecedents Framework for Trust Prediction (Regular)*
Guibing Guo, Jie Zhang, Daniel Thalmann, and Neil Yorke-Smith
2. (A363) *Persuasion Driven Influence Propagation in Social Networks (Regular)*
Terrence Leung and Fu-lai Chung
3. (A358) *A Novel Algorithm for Community Detection and Influence Ranking in Social Networks (Short)*
Wenjun Wang and Nick Street
4. (A351) *Leadership: Do Networks Matter? (Short)*
Yulia Tyshchuk, William Wallace, and Kathryn Coronges
5. (A338) *Recommendation in Academia: a Joint Multi-Relational Model (Short)*
Zaihan Yang, Dawei Yin, and Brian D. Davison

Industrial Track – S1

Session Chair: Daniel Dajun Zeng

1. (N203) *Social Networks and Quality of Life: the National Health Interview Survey*
Azadeh Hemmati and Kon Shing Kenneth Chung
2. (N220) *Community Discovery Using Social Links and Author-Based Sentiment Topics*
Baoguo Yang and Suresh Manandhar
3. (N202) *Field Selection for Job Categorization and Recommendation to Social Network Users*
Emmanuel Malherbe, Mamadou Diaby, Mario Cataldi, Emmanuel Viennet, and Marie-Aude Aufaure
4. (N205) *Application of Network Analysis on Healthcare*
Fei Wang, Uma Srinivasan, Shahadat Uddin, and Sanjay Chawla

Industrial Track – S2

Session Chair: Xueqi Cheng

1. (N215) *Populating Knowledge Base with Collective Entity Mentions: A Graph-based Approach*
Hailun Lin, Yantao Jia, Yuanzhuo Wang, Xiaolong Jin, Xiaojing Li, and Xueqi Cheng
2. (N211) *Personalized Paper Recommendation in Online Social Scholar System*
Huan Xue, Jiafeng Guo, Yanyan Lan, and Lei Cao
3. (N219) *Using Sentiment to Detect Bots on Twitter: Are Humans more Opinionated than Bots?*
John Dickerson, Vadim Kagan, and V.S. Subrahmanian

4. (N201) *Adjustments to Propensity Score Matching and Inference for Network Structures*
Masoud Charkhabi

Industrial Track – S3

Session Chair: Xueqi Cheng

1. (N209) *Handling incomplete data using Semantic Logging based Social Network Analysis Hexagon for Effective Application Monitoring and Management*
Omair Shafiq
2. (N213) *Characterizing Emotion Entrainment in Social Media*
Saike HE, Xiaolong Zheng, Daniel Zeng, Bo Xu, Changliang Li, and Hongwei Hao
3. (N204) *SansText: Classifying Temporal Topic Dynamics of Twitter Cascades Without Tweet Text*
Shashidhar Sundareisan, Abhay Rao Bhadriraju, M Saquib Khan, Naren Ramakrishnan, and B. Aditya Prakash
4. (N216) *OpenKN: An Open Knowledge Computational Engine for Network Big Data*
Yantao Jia, Yuanzhuo Wang, Xueqi Cheng, Xiaolong Jin, and Jiafeng Guo

Tutorial 1

Route planning in geo-social media
Hsun-Ping HSIEH, Cheng-Te LI (National Taiwan University)

Tutorial 2

Network inference for cyber security in online social networks
Chee Wei TAN (City University of Hong Kong)

Symposium/Workshop Program

FOSINT-SI – S1

Session Chair: Francesca Spezzano

1. (W501) *CAPER: Crawling and Analysing Facebook for Intelligence Purposes (Short)*
Carlo Aliprandi, Antonio Ercole De Luca, Giulia Di Pietro, Matteo Raffaelli, Davide Gazzè, Mariantonietta Noemi La Polla, Andrea Marchetti and Maurizio Tesconi.
2. (W504) *Online Naive Bayes Classification for Network Intrusion Detection (Short)*
Fatma Gumus, C. Okan Sakar, Zeki Erdem and Olcay Kursun
3. (W505) *UK Crime Networks (Short)*
Giles Oatley and Tom Crick. Exploring

FOSINT-SI – S2

Session Chair: Mohammad Tayebi

1. (W502) *Cascading Failures of Social Networks under Attacks (Regular)*
Chengqi Yi, Yuanyuan Bao, Jingchi Jiang, Yibo Xue, and Yingfei Dong
2. (W503) *Understanding South Asian Violent Extremist Group-Group Interactions (Regular)*
David Skillicorn, Francesca Spezzano, Vs Subrahmanian and Mike Garber
3. (W506) *Semantic Crawling: an Approach based on Named Entity Recognition*
Giulia Di Pietro, Carlo Aliprandi, Antonio Ercole De Luca, Matteo Raffaelli and Tiziana Soru **(Short)**
4. (W508) *Prediction and Analysis of Pakistan Election 2013 based on Sentiment Analysis (Short)*
Muhammad Asif Razzaq, Ali Mustafa Qamar, and Hafiz Syed Bilal Ali

FOSINT-SI – S3

Session Chair: Uwe Glasser

1. (W507) *The Security Awareness Paradox: A Case Study (Regular)*
Muhammad Adnan Tariq, Joel Brynielsson and Henrik Artman
2. (W510) *Estimating the Size of Hidden Data Sources by Queries (Regular)*
Yan Wang, Jie Liang, and Jianguo Lu
3. (W509) *OSINT for B2B platforms (Short)*
Vasile-Florian Pais, and Dan Stefan Ciobanu
4. (W511) *Detecting Key Individuals in Terrorist Network Based on FANP Model (Short)*
Ze Li, Duoyong Sun, Shuquan Guo, and Bo Li

HI-BI-BI – S1

Session Chair: Omair Shafiq

1. (W301) *Big Data in Health Informatics Architecture*
Egondu Onyejekwe
2. (W303) *Improving Energetic Feature Selection to Classify Protein--Protein Interactions*
Tatiana Gutiérrez-Bunster and Gemán Poo-Caamaño
3. (W304) *How Do Biological Networks Differ from Social Networks? (An Experimental Study)*

Tatiana Gutiérrez-Bunster, Ulrike Stege, Alex Thomo and John Taylor

HI-BI-BI – S2

Session Chair: Tansel Ozyer

1. *(W305) Evidence from the randomized controlled trials of Traditional Chinese Medicine compound in treating Alzheimer's disease*
Xueqin Hou, Yu Zhang and Qi Wang
2. *(W306) A Fast Sorting Algorithm for Aptamer Identification Using Deep Sequencing*
Yiou Xiao, Damian Allis, Kishan Mehrotra and Phillip Borer
3. *(W307) Tracking Dynamic Community Evolution in Social Networks*
Zeineb Dhouioui and Jalel Akaichi

URUGC – S1

Session Chair: Jonathan Zhu

1. *(W701) Competition between Real-life Friends and Virtual-life Friends*
Bin Fang, Qiang Ye
2. *(W702) Location Inference Using Microblog Text and Friendships*
Chuangyang Li, Xiuqin Lin, Bin Wu, Chuan Shi
3. *(W703) Sentiment Analysis of Microblog Combining Dictionary and Rules*
Ding Yuan, Yanquan Zhou, Ruifan Li, Peng Lu

URUGC – S2

Session Chair: Qiang Ye

1. *(W704) Using Single Source Data to Better Understand User-Generated Content (UGC) Behavior*
Heng Lu, Jonathan J.H. Zhu
2. *(W705) Research and implementation of algorithm for short videos recommendation of algorithm for short videos recommendation*
Lai Jiang, Xiangling Fu
3. *(W706) The Comparison Study on the Motivations of Staffs' Behaviors on Public and Enterprise Social Network: Evidence from China*
Miaomiao Xiong, Qing Chen, Angela Zhao

URUGC – S3

Session Chair: Jiayin Qi

1. *(W707) Structural and Regular Equivalence of Community Detection in Social Networks*
Sovatana Hour, Li Kan
2. *(W708) UGC Collection Strategy Oriented User Influence Classification and Feature Analysis*
Yue Zhai, Lei Li
3. *(W709) Research on the Selecting Mechanism of Individual Interactive Object for Online Social Network*
Yujie Pang, Shiyu Du

SNAA – S1

Session Chair: Matteo Magnani

1. *(W402) Associations between Personal Social Network Properties and Mental Health in Cancer Care*

- Azadeh Hemmati and Kon Shing Kenneth Chung.
2. (W403) *A Study of Age and Gender seen through Mobile Phone Usage Patterns in Mexico*
Carlos Sarraute, Pablo Blanc and Javier Burroni.
 3. (W404) *Dynamic Feedback Mechanism for Maximizing Interaction in Online Social Network Services*
Kyudong Park, Seungjae Oh, Heung-Chang Lee and Hyo-Jeong So.

SNA – S2

Session Chair: Matteo Magnani

1. (W405) *Activity Profiles in Online Social Media*
Lisa Kaati, Amendra Shrestha, Sofia Cassel, and Mohamed Faouzi Atig
2. (W406) *Extension of Modularity Density for Overlapping Community Structure*
Mingming Chen, Konstantin Kuzmin and Boleslaw Szymanski.
3. (W407) *The Same Network – Different Communities? The Multidimensional Study of Groups in the Cyberspace*
Radosław Michalski, Jaroslaw Jankowski, Piotr Bródka and Przemysław Kazienko.
4. (W408) *Local representatives in weighted networks*
Sarka Zehnalova, Milos Kudelka, Jan Platos, and Zdenek Horak

SNA – S3

Session Chair: Matteo Magnani

1. (W401) *PEVNET: A Framework for Visualization of Criminal Networks*
Amer Rasheed and Uffe Kock Wiil
2. (W409) *Incremental Solutions to Online Multi-unit Combinatorial Auctions for Information feedback*
Sivaraman Ramanathan, Avinash Krishnakumar and Anup K Sen.
3. (W410) *Analysis of two crime-related networks derived from bipartite social networks*
Taher Alzahrani and Kathy Horadam.
4. (W411) *Link Discovery in Social Networks*
Tobias Jacobs and Flavio Cirillo.

C3 – S1

Session Chair: Wenjia Niu

1. (W601) *Optimal Strategies for Targeted Influence in Signed Networks*
Basak Guler, Burak Varan, Kaya Tutuncuoglu, Mohamed Nafea, Ahmed A. Zewail, Aylin Yener and Damien Ochteau
2. (W602) *Rumors Detection in Chinese via Crowd Responses*
Guoyong Cai, Hao Wu and Rui Lv.
3. (W603) *A Novel Method for Computer Video Leaking Signal Detection*
Jun Shi, Weiqing Huang, Dong Wei and Degang Sun.
4. (W604) *Simpler is Better? Lexicon-based Ensemble Sentiment Classification Beats Supervised Methods*
Lukasz Augustyniak, Tomasz Kajdanowicz, Piotr Szymański, Włodzimierz Tuligowicz, Przemysław Kazienko, Reda Alhajj and Boleslaw Szymanski.

C3 – S2

Session Chair: Wenjia Niu

1. *(W605) Automatically Identifying Experts in On-line Support Forums using Social Interactions and Post Content*
Tyler Munger and Jiabin Zhao.
2. *(W606) Community-based cheater detection in location-based social networks*
Wenjie Fan, Wei Fan, Shaoyi Liao and Kai Hau Yeung.
3. *(W607) SDHM: A Hybrid Model for Spammer Detection in Weibo*
Yu Liu, Bin Wu, Bai Wang and Guanchen Li.
4. *(W608) Using global diversity and local features to identify influential social network spreaders*
Yu-Hsiang Fu, Chung-Yuan Huang and Chuen-Tsai Sun.

Demo

Session Chair: Tansel Ozyer

1. *(S1207) Epidemic Spreading Model Based Overlapping Community Detection*
Ying Wen, Yuanhao Chen, and Xiaolong Deng
2. *(S1203) Tag-Based Expert Recommendation in Community Question Answering*
Baoguo Yang
3. *(S1201) Tell Me Who Your Friends Are and I'll Tell You Who You Are: Studying the Evolution of Collaborations in Research Environments*
Mario Cataldi, Luigi Di Caro, Myriam Lamolle, and Claudio Schifanella