

Table of Contents

Economics, science of success, and education

Simple Acoustic-Prosodic Models of Confidence and Likability are Associated with Long-Term Funding Outcomes for Entrepreneurs	1
<i>Natalie Carlson</i>	
ABCE: A Python Library for Economic Agent-based Modeling	15
<i>Davoud Taghawinejad, Rudy H. Tanin, R. Maria Del Rio Chanona, Adrian Carro, J. Doayne Farmer, Torsten Heinrich and Juan Sabuco</i>	
The Dynamics of Professional Prestige in Fashion Industries of Europe and the US: Network Approach	29
<i>Margarita Kuleva and Daria Maglevanaya</i>	
Matching graduate applicants with faculty members	40
<i>Shibamouli Lahiri, Carmen Banea and Rada Mihalcea</i>	

Network science

Why Groups Show Different Fairness Norms? The Interaction Topology Might Explain	55
<i>Mohsen Mosleh and Babak Heydari</i>	
Constrained Community Detection in Multiplex Networks	71
<i>Koji Eguchi and Tsuyoshi Murata</i>	

News, misinformation, and collective sensemaking

Seminar Users in the Arabic Twitter Sphere	84
<i>Kareem Darwish, Dimitar Alexandrov, Preslav Nakov and Yelena Mejova</i>	
Exploiting Context for Rumour Detection in Social Media	102
<i>Arkaitz Zubiaga, Maria Liakata and Rob Procter</i>	
Multidimensional Analysis of the News Consumption of Different Demographic Groups on a Nationwide Scale	117
<i>Jisun An and Haewoon Kwak</i>	
Trump vs. Hillary: What went Viral during the 2016 US Presidential Election	134
<i>Kareem Darwish, Walid Magdy and Tahar Zanouda</i>	
Understanding Online Political Networks: The case of the far-right and far-left in Greece	150
<i>Pantelis Agathangelou, Ioannis Katakis, Lamprini Rori, Dimitrios Gunopulos and Barry Richards</i>	

Polarization in blogging about the Paris meeting on climate change	166
<i>Dag Elgesem</i>	
Event Analysis on the 2016 U.S. Presidential Election Using Social Media	184
<i>Tarrek Shaban, Lindsay Hexter and Jinho Choi</i>	
Badly Evolved? Exploring Long-Surviving Suspicious Users on Twitter . .	201
<i>Majid Alfifi and James Caverlee</i>	

Opinions, behavior, and social media mining

Like at First Sight: Understanding User Engagement with the World of Microvideos	217
<i>Sagar Joglekar, Nishanth Sastry and Miriam Redi</i>	
Compression-based algorithms for deception detection	234
<i>Christina Ting, Andrew Fisher and Travis Bauer</i>	
‘Dark Germany’: Hidden Patterns of Participation in Online Far-Right Protests Against Refugee Housing	255
<i>Sebastian Schelter and Jérôme Kunegis</i>	
An analysis of UK Policing Engagement via Social Media	267
<i>Miriam Fernandez, Tom Dickinson and Harith Alani</i>	
What Makes a Good Collaborative Knowledge Graph: Group Composition and Quality in Wikidata	282
<i>Alessandro Piscopo, Christopher Phethean and Elena Simperl</i>	
Multimodal Prediction and Analysis of Latent User Dimensions	298
<i>Laura Wendlandt, Rada Mihalcea, Ryan L. Boyd and James W. Pen- nebaker</i>	
Characterizing videos, audience and advertising in Youtube channels for kids	315
<i>Camila Araújo, Gabriel Magno, Wagner Meira Jr., Virgilio Almeida, Pedro Hartung and Danilo Doneda</i>	
Comparing influencers: activity vs. connectivity measures in defining key actors in Twitter ad hoc discussions on migrants in Germany and Russia	333
<i>Svetlana Bodrunova, Anna Litvinenko and Ivan Blekanov</i>	
The President on Twitter: A Characterization Study of @realDonaldTrump	351
<i>Brooke Auxier and Jennifer Golbeck</i>	
Social Networking Sites (SNS) Withdrawal	365
<i>Carlos Osorio, Rob Wilson and Savvas Papaginannidis</i>	

When Follow is Just One Click Away: Understanding Twitter Follow Behavior in the 2016 U.S. Presidential Election	384
<i>Yu Wang, Jiebo Luo and Xiyang Zhang</i>	
Inferring Spread of Readers' Emotion Affected by Online News	400
<i>Agus Sulistya, Ferdian Thung and David Lo</i>	
How Polarized Have We Become? A Multimodal Classification of Trump Followers and Clinton Followers	414
<i>Yu Wang, Yang Feng, Zhe Hong, Ryan Berger and Jiebo Luo</i>	
Can Cross-lingual Information Cascades be Predicted on Twitter?	430
<i>Hongshan Jin, Masashi Toyoda and Naoki Yoshinaga</i>	
An Analysis of Individuals' Behavior Change in Online Groups	446
<i>David Jurgens, James McCorriston and Derek Ruths</i>	
The Message or the Messenger? Inferring Virality and Diffusion Structure from Online Petition Signature Data	470
<i>Chi Ling Chan, Justin Lai, Bryan Hooi and Todd Davies</i>	
Proximity, location, mobility, and urban analytics	
Measuring ambient population from geotagged user-generated data to explain urban crime	488
<i>Cristina Kadar, Raquel Rosés and Irena Pletikosa</i>	
Robust modeling of human contact networks across different scales and proximity-sensing techniques	503
<i>Michele Starnini, Bruno Lepri, Andrea Baronchelli, Alain Barrat, Ciro Cattuto and Romualdo Pastor-Satorras</i>	
Personalized Recommendation of Points-of-Interest based on Multilayer Local Community Detection	520
<i>Roberto Interdonato and Andrea Tagarelli</i>	
Designing for Digital Inclusion: A Post-Hoc Evaluation of a Civic Technology	539
<i>Claudia Lopez and Rosta Farzan</i>	
Security, privacy, and trust	
The Cognitive Heuristics Behind Disclosure Decisions	556
<i>Vincent Marmion, Felicity Bishop, David Millard and Sarah Stevenage</i>	
Tools and methods	
A Propagation-based Method of Estimating Students' Concept Understanding	573
<i>Rafael López García, Makoto P. Kato and Katsumi Tanaka</i>	

Seeds Buffering in Information Spreading Processes	590
<i>Jaroslav Jankowski, Piotr Bródka, Radosław Michalski and Przemysław Kazienko</i>	

Poster papers: Economics, science of success, and education

Mobile Social Media and Academic Performance	604
<i>Fausto Giunchiglia, Mattia Zeni, Elisa Gobbi, Enrico Bignotti and Ivano Bison</i>	

Towards real-time prediction of unemployment and profession	615
<i>Pål Sundsøy, Johannes Bjelland, Bjørn-Atle Reme, Eaman Jahani, Erik Wetter and Linus Bengtsson</i>	

The digital Flynn effect: the complexity of posts on social media is increasing with time	626
<i>Ivan Smirnov</i>	

An Exploration of Wikipedia Data as a Measure of Regional Knowledge Distribution	633
<i>Fabian Stephany and Fabian Braesemann</i>	

Differential Network Effects on Economic Outcomes: A Structural Perspective	642
<i>Eaman Jahani, Guillaume Saint-Jacques, Pål Sundsøy, Johannes Bjelland, Esteban Moro and Alex 'Sandy' Pentland</i>	

Poster papers: Health and behaviour

Stance Classification in Out-of-Domain Rumours: A Case Study around Mental Health Disorders	651
<i>Ahmet Aker, Arkaitz Zubiaga, Kalina Bontcheva, Anna Kolliakou, Rob Procter and Maria Liakata</i>	

Predicting Multiple Risky Behaviors via Multimedia Content	664
<i>Yiheng Zhou, Jingyao Zhan and Jiebo Luo</i>	

On the Role of Political Affiliation in Human Perception: The Case of Delhi OddEven Experiment	673
<i>Tahar Zanouda, Sofiane Abbar, Laure Berti-Equille, Koushal Shah, Abdelkader Baggag, Sanjay Chawla and Jaideep Srivastava</i>	

Discovering the typing behaviour of Parkinson's patients using topic models	687
<i>Antony Milne, Mihalís Nicolaou and Katayoun Farrahi</i>	

Poster papers: Network science

Effects of Contact Network Models on Stochastic Epidemic Simulations . . . 696
Rehan Ahmad and Kevin Xu

From Relational Data to Graphs: Inferring Significant Links using
Generalized Hypergeometric Ensembles 706
Giona Casiraghi, Vahan Nanumyan, Ingo Scholtes and Frank Schweitzer

DepthRank: Exploiting Temporality to Uncover Important Network Nodes 717
Nikolaos Bastas, Theodoros Semertzidis and Petros Daras

Poster papers: News, misinformation, and collective sensemaking

On Early-stage Debunking Rumors on Twitter: Leveraging the Wisdom
of Weak Learners 735
Tu Nguyen and Claudia Niederee

Convergence of Media Attention Across 129 Countries 751
Jisun An, Hassan Aldarbesti and Haewoon Kwak

Attention Please! Exploring Attention Management on Wikipedia in
the Context of the Ukrainian Crisis 760
Jon Roozenbeek and Mariia Terentieva

I read it on Reddit: Exploring the role of online communities in the
2016 US elections news cycle 786
Jon Roozenbeek and Adrià Salvador Palau

How eyewitness media reflect socio-economic effects of natural hazards? . . 804
Nataliya Tkachenko, Rob Procter and Stephen Jarvis

What can software tell us about media coverage and public opinion? An
analysis of political news posts and audience comments on Facebook
by computerised method 814
Celine Yunya Song and Nick Y. Zhang

Poster papers: Opinions, behavior, and social media mining

GitHub and Stack Overflow: Analyzing Developer Interests Across
Multiple Social Collaborative Platforms 823
Roy Ka-Wei Lee and David Lo

How Are Social Influencers Connected in Instagram? 835
Seungbae Kim, Jinyoung Han, Seunghyun Yoo and Mario Gerla

Affinity groups: A linguistic analysis for social network groups
identification 844
*Jonathan Mendieta, Gabriela Baquerizo, Monica Villavicencio and Car-
men Vaca Ruiz*

Deliberative Platform Design: The case study of online discussions in Decidim Barcelona	856
<i>Pablo Aragón, Andreas Kaltenbrunner, Antonio Calleja-López, Andrés Pereira, Arnau Monterde, Xabier Barandarian and Vicenç Gómez</i>	
Computational Controversy	867
<i>Benjamin Timmermans, Tobias Kuhn, Kaspar Beelen and Lora Aroyo</i>	
Evaluative patterns and incentives in YouTube	880
<i>David García, Adiya Abisheva and Frank Schweitzer</i>	
Beyond the culture effect on credibility perception on microblogs	895
<i>Suliman Aladhadh, Xiuzhen Zhang and Mark Sanderson</i>	
Twigraph: Discovering and Visualizing Influential Words between Twitter Profiles	908
<i>Dhanasekar Sundararaman and Sudharshan Srinivasan</i>	
An exploratory study on the influence of guidelines on crowdfunding projects in the Ethereum blockchain platform	927
<i>Vanessa Bracamonte and Hitoshi Okada</i>	
Lost in re-election: a tale of two Spanish online campaigns	935
<i>Helena Gallego, David Laniado, Andreas Kaltenbrunner, Vicenç Gómez and Pablo Aragón</i>	
Beyond Item Recommendation: Using Recommendations to Stimulate Knowledge Sharing in Group Decisions	948
<i>Muesluem Atas, Alexander Felfernig, Martin Stettinger and Thi Ngoc Trang Tran</i>	
A Hierarchical Topic Modelling Approach for Tweet Clustering	958
<i>Bo Wang, Maria Liakata, Arkaitz Zubiaga and Rob Procter</i>	
Combining Network and Language Indicators for Tracking Conflict Intensity	970
<i>Anna Rumshisky, Mikhail Gronas, Peter Potash, Alexey Romanov, Mikhail Dubov, Alex Gribov and Saurabh Kulshreshtha</i>	
Like trainer, like bot? Inheritance of bias in algorithmic content moderation	984
<i>Reuben Binns, Michael Veale, Max Van Kleek and Nigel Shadbolt</i>	
Poster papers: Proximity, location, mobility, and urban analytics	
Modeling and Managing Airport Passenger Flow under Uncertainty: A Case of Fukuoka Airport in Japan	995
<i>Hiroaki Yamada, Kotaro Otori, Tadashige Iwao, Akifumi Kira, Naoyuki Kamiyama, Hiroaki Yoshida and Hirokazu Anai</i>	

When Internet Really Connects Across Space: Communities of Software
Developers in Vkontakte Social Networking Site 1008
Olessia Koltsova, Sergey Koltsov and Yadviga Sinyavskaya

Inferring the Social connectedness of Locations from Mobility Data 1021
*Tristan Brugman, Mitra Baratchi, Geert Heijenk and Maarten van
Steen*

Towards simulating criminal offender movement based on insights from
human dynamics and location-based social networks 1036
Raquel Rosés Brüngger, Robin Bader, Cristina Kadar and Irena Pletikosa

Poster papers: Security, privacy, and trust

The Importance of Consent in User Comfort with Personalization 1044
Jennifer Golbeck

Nudging Nemo: Helping Users Control Linkability across Social Networks 1052
*Rishabh Kaushal, Srishti Chandok, Paridhi Jain, Prateek Dewan, Nalin
Gupta and Ponnurangam Kumaraguru*

Mediated behavioural change in human-machine networks: exploring
network characteristics, trust and motivation 1066
Paul Walland and Brian Pickering

Hunting bots on Twitter: an unsupervised approach 1076
Zhouhan Chen, Devika Subramanian, Rima Tanash and Richard Stoll

Poster papers: Tools and methods

Exploratory Analysis of Big Social Data Using MIC/MINE Statistics 1086
*Piyawat Lertvittayakumjorn, Chao Wu, Yue Liu, Hong Mi and Yike
Guo*

Exploring Emerging Topics in Social Informatics: An Online Real-Time
Tool for Keyword Co-Occurrence Analysis 1099
Florian Cech

Writer Profiling Without the Writer's Text 1111
David Jurgens, Yulia Tsvetkov and Dan Jurafsky