

Cologne · July 10-13, 2017

IC²S² 2017

gesis

Leibniz Institute
for the Social Sciences

The 3rd Annual International Conference on Computational Social Science

Conference Program

ESSENTIAL INFORMATION

Conference Wifi

Network: *lc2s2_2017*

Password: *lc2s2_2017*

Online presence

Twitter: *#ic2s2, @IC2S2*

Website: *www.ic2s2.org*

Live broadcasting

The link for the live streaming of keynote talks will be announced on Twitter

ACKNOWLEDGEMENTS

We thank the following individuals for their generous contributions of time and energy to making the IC²S² 2017 conference in Cologne a successful event.

Conference Chairs

Markus Strohmaier
Dirk Brockmann
Noshir Contractor
Brian Uzzi

Tutorials Co-chairs

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SocioPatterns Study

Mathieu Génois
Anna Samoilenko
Clemens Lechner
Maria Zens
Diana Lindner
David Brodesser

We also express gratitude to the 148 members of the Programme Committee (listed on the back cover) for contributing their time and expertise to the reviewing process. Finally, we thank the keynote speakers.

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www.humtec.rwth-aachen.de

SocioPatterns

www.sociopatterns.org

KEYNOTE SPEAKERS



Ulrik Brandes

University of Konstanz

Talk: "The space of all centralities"



Cecilia Mascolo

University of Cambridge

Talk: "Human behaviour studies through the lens of mobile sensing and complex networks"



Kathleen Carley

Carnegie Mellon University

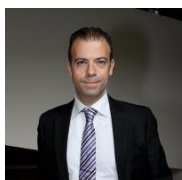
Talk: "Social influence on the Web: Bots and fake news"



María Pereda

Universidad Carlos III de Madrid

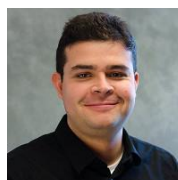
Talk: "Learning to be nice: Social norm as a result of adjusting expectations"



Ciro Cattuto

ISI Foundation

Talk: "High-resolution social networks from wearable sensors: Experiences and perspectives"



Daniel Romero

University of Michigan

Talk: "Examining the effects of exogenous shocks on social networks and collaborative crowds"



Emily Falk

University of Pennsylvania

Talk: "How ideas spread from brain to brain"



Matt Taddy

Microsoft Research & Univ. of Chicago

Talk: "Economic AI"



Justin Grimmer

Stanford University

Talk: "Exploratory and confirmatory causal inference for high dimensional interventions"



Milena Tsvetkova

London School of Economics and Political Science

Talk: "Social science research with games and gamification"



Jeff Hancock

Stanford University

Talk: "Folk theories and cyber-social systems: Understanding people's understanding"



Dashun Wang

Northwestern University

Talk: "Emergence of scaling in complex substitutive systems"



Ágnes Horvát

Northwestern University

Talk: "Hidden signals of collective intelligence in crowdfunding"

SOCIOPATTERNS STUDY

The Computational Social Science Department at GESIS, in association with the CPT in Marseille and the ISI Foundation in Turin, hosts a SocioPatterns study during the conference. This is a very good opportunity to gather valuable data about human interactions. The Computational Social Science group at GESIS thus encourages all participants of the IC²S² 2017 to take part in this great study.

If you agree to participate, the **setup** is very simple:

1. When you come to register at the main desk, **sign the form of agreement** and **pick up your badge** with the sensor and your anonymous ID.
2. As soon as possible, **fill in the survey** available at the following address: <https://www.unipark.de/uc/ic2s2/> or use the QR code. Log in with the anonymous ID and fill out the survey in one session. You can do it on your own device or at one of the available computers.
3. Once the survey is filled, you can **pick your “Data Donor” sticker** at the main desk.
4. **Don't forget to wear your badge during the entire conference, and to bring it with you every day.**
5. **Return the sensor** to the main desk when you leave the conference.

FAQ:

– Is my identity recorded?

No. We do not, at any point, record your personal identity. Furthermore, the setup is designed so that your identity cannot be reconstructed from the data.

– Do I keep the sensor during the conference?

Yes. You keep the sensor in your badge during the whole conference, take it with you to the hotel and bring it back every morning, and return it only when you leave the conference.

– Do the sensors work outside of the conference?

No. The data is collected only within the venue. Everything that happens outside of the venue cannot be recorded by the setup. In particular, the opening reception will not be covered.

– How will the data be used?

The data will be used only for research purposes. It will not be used in any commercial way.

– I accepted/refused to participate, can I change my mind?

Yes, absolutely. At any point in time you can reach the main desk and decide to quit/join the study.

SocioPatterns

Survey QR code:



IMPORTANT: Do not forget to return the sensor to the main desk when you leave the conference!

PRE-CONFERENCE DAY: TUTORIALS

DAY 0 – July 10th, Monday

09:00 – 10:00 Registration

Foyer

Morning tutorials

10:00 – 13:15	A practical introduction to spatial datasets and urban applications	Topic modeling European political debates with the EUSpeech dataset	Social media for health research	Discovering and mitigating algorithmic discrimination	Introduction to GIS using Google Maps and Google Earth
	<i>Bruno Gonçalves, Desislava Hristova, Anastasios Noulas</i>	<i>Tatjana Scheffler, Damian Trilling, Cornelius Puschmann</i>	<i>Ingmar Weber, Yelena Mejova</i>	<i>Sara Hajian, Carlos Castillo</i>	<i>Toni Rouhana</i>
	Adelheid	Dreikönigssaal (upstairs)	Quirinus	Gereon	Bruno (upstairs)

13:15 – 14:30 Lunch break

Foyer

Afternoon tutorials

14:30 – 17:45	(continued) A practical introduction to spatial datasets and urban applications	Computational sociolinguistics	Digital demography	A practical introduction to latent semantic analysis for text	Crowdcomputing and citizen science for large-scale experiments	A brief introduction to exponential random graph models for social networks
		<i>Dong Nguyen</i>	<i>Ingmar Weber, Bogdan State</i>	<i>Jacob Miller, David Gefen, Jorge Fresneda</i>	<i>Snehalkumar 'Neil' S. Gaikwad, Sohan Dsouza, Oana Vuculescu, Andrew Mao, Iyad Rahwan</i>	<i>András Vörös</i>
	Adelheid	Quirinus	Bruno (upstairs)	Dreikönigssaal (upstairs)	Gereon	Laurentius

MAIN CONFERENCE: PROGRAMME OVERVIEW

DAY 1 – July 11th, Tuesday

09:00 – 10:00	Registration	Foyer
10:00 – 10:15	Opening remarks	Maternussaal
10:15 – 10:45	KEYNOTE: Ciro Cattuto	Maternussaal
10:45 – 11:15	KEYNOTE: Ágnes Horvát	Maternussaal
11:15 – 11:45	Coffee break	Foyer
Parallel sessions		
11:45 – 13:15	Session 1 News Adelheid Session 2 Analysis of text Quirinus Session 3 Markets Maternussaal Session 4 User demographics and privacy Dreikönigssaal Session 5 Finances Gereon Session 6 Norms, trust, and moral foundations Laurentius	
13:15 – 14:45	Lunch break	Foyer
14:45 – 15:15	KEYNOTE: Dashun Wang	Maternussaal
15:15 – 17:30	Poster Session I	Foyer
17:30 – 18:00	KEYNOTE: Ulrik Brandes	Maternussaal
19:00 – 23:00	Opening reception	Boat trip

MAIN CONFERENCE: PROGRAMME OVERVIEW

DAY 2 – July 12th, Wednesday

10:00 – 10:30	KEYNOTE: Cecilia Mascolo	Maternussaal
10:30 – 11:00	KEYNOTE: Emily Falk	Maternussaal
11:00 – 11:30	Coffee break	Foyer
Parallel sessions		
11:30 – 13:00	Session 7 Political phenomena Maternussaal Session 8 Health and wellbeing Adelheid Session 9 Competition Gereon Session 10 Collaboration and communities Quirinus Session 11 Wikipedia Dreikönigssaal Session 12 Settings Laurentius	
13:00 – 14:30	Lunch break	Foyer
Parallel sessions		
14:30 – 16:00	Session 13 Protest and activism Laurentius Session 14 Mobility and geo-information Quirinus Session 15 Network dynamics Dreikönigssaal Session 16 Methods Maternussaal Session 17 Discourse Gereon Session 18 Identity and self-presentation Adelheid	
16:00 – 16:30	Coffee break	Foyer
16:30 – 17:00	KEYNOTE: Kathleen Carley	Maternussaal
17:00 – 17:30	KEYNOTE: Justin Grimmer	Maternussaal
17:30 – 19:45	Poster Session II	Foyer

MAIN CONFERENCE: PROGRAMME OVERVIEW

DAY 3 – July 13th, Thursday

10:00 – 10:30	KEYNOTE: Daniel Romero	Maternussaal
10:30 – 11:00	KEYNOTE: Milena Tsvetkova	Maternussaal
11:00 – 11:30	Coffee break	Foyer
Parallel sessions		
11:30 – 13:00	Session 19 Elections Dreikönigssaal Session 20 Online politics Adelheid Session 21 Popular culture Maternussaal Session 22 Workplaces Quirinus	
13:00 – 14:30	Lunch break	Foyer
14:30 – 15:00	KEYNOTE: Matt Taddy	Maternussaal
15:00 – 15:30	KEYNOTE: María Pereda	Maternussaal
15:30 – 16:00	KEYNOTE: Jeff Hancock	Maternussaal
16:00 – 16:30	Closing remarks	Maternussaal

DETAILED CONFERENCE PROGRAMME

DAY 1 – MAIN CONFERENCE

July 11th Tuesday

START	END		LOCATION
09:00	10:00	Registration	Foyer
10:00	10:15	Opening remarks	Maternussaal
10:15	10:45	KEYNOTE: Ciro Catutto High-resolution social networks from wearable sensors: Experiences and perspectives <i>Presented by EPJ Data Science</i> <i>Chair: Duncan Watts</i>	Maternussaal
10:45	11:15	KEYNOTE: Ágnes Horvát Hidden signals of collective intelligence in crowdfunding <i>Presented by Kellogg School of Management at Northwestern University</i> <i>Chair: Duncan Watts</i>	Maternussaal
11:15	11:45	Coffee break	Foyer

11:45 – 13:15 PARALLEL SESSIONS

Session 1	News	Adelheid Chair: Kazutoshi Sasahara
11:45 – 12:00	A topic-sentiment evolution model to analyze Chinese national image from online news	Yuemei Xu, Jiayi Zhou, Xiaoya Zhang and Chenyu Dong
12:00 – 12:15	Nature of real and perceived bias in Chilean media	Erick Elejalde, Leo Ferres and Eelco Herder
12:15 – 12:30	Dynamic networks of news consumption: Online traffic during the 2016 Brexit campaign in the UK	Lorien Jasny, Susan Banducci, Travis Coan, Iulia Cioroianu, Iain Weaver and Hywell Williams
12:30 – 12:45	Do news recommenders foster filter bubbles? An empirical assessment of multiple recommender systems and their impact on content diversity	Judith Moeller, Damian Trilling, Natali Helberger and Bram van Es
12:45 – 13:00	Modelling echo chambers on social media	Kazutoshi Sasahara, Giovanni Luca Ciampaglia, Alessandro Flammini and Filippo Menczer
13:00 – 13:15		
Session 2	Analysis of Text	Quirinus Chair: Jake Hofman
11:45 – 12:00	Spatial distributions of linguistic features are determined by the interaction of endogenous and exogenous dynamics	Henri Kauhanen, Deepthi Gopal and Tobias Galla
12:00 – 12:15	Statistical properties of fluctuations of time series representing appearances of words in nationwide blog data and their applications	Hayafumi Watanabe, Yukie Sano, Hideki Takayasu and Misako Takayasu
12:15 – 12:30	Statistical scaling meets classic content analysis: Using Bayesian IRT-modelling to infer latent variables from hand-coded texts	Thomas Daeubler and Kenneth Benoit
12:30 – 12:45	The fall of the empire: The americanization of English	Bruno Gonçalves, Lucia Loureiro-Porto, Jose J. Ramasco and David Sanchez
12:45 – 13:00	Using named entities for computer-automated verbal deception detection	Bennett Kleinberg, Maximilian Mozes, Arnoud Arntz and Bruno Verschuere
13:00 – 13:15	To put that in perspective: Generating analogies that make numbers easier to understand	Christopher Riederer, Jake Hofman and Daniel Goldstein

Session 3 Markets		Maternussaal Chair: Javier Garcia-Bernardo
11:45 – 12:00	Trust is extendible: An online experiment on Airbnb's user population	Bruno Abrahao, Paolo Parigi, Alok Gupta and Karen Cook
12:00 – 12:15	Network characterization of cartels in public auction markets	Johannes Wachs and János Kertész
12:15 – 12:30	Who cares about the overhead? Measuring the efficiency in the charity marketplace	Ceren Budak and Justin Rao
12:30 – 12:45	Order without law: Reputation promotes cooperation in a cryptomarket for illegal drugs	Wojtek Przepiorka, Lukas Norbutas and Rense Corten
12:45 – 13:00	Dyadic and network learning in online drug marketplaces: commitment or market efficiency?	Lukas Norbutas, Rense Corten and Stijn Ruiter
13:00 – 13:15	Identifying sink and conduit offshore financial centers in the global corporate ownership network	Javier Garcia-Bernardo, Jan Fichtner, Eelke Heemskerk and Frank Takes
Session 4 User demographics and privacy		Dreikönigssaal Chair: Ridhi Kashyap
11:45 – 12:00	Inducing egocentric networks with privacy settings: Evidence from integrated social media and representative survey data	Yang-Chih Fu and Ming-Yi Chang
12:00 – 12:15	What do our digital records reveal about us? Automatic prediction of demographic and psychometric attributes from digital data	Kyriaki Kalimeri, Mariano Gastón Beiró, Robert Raleigh and Ciro Cattuto
12:15 – 12:30	New techniques for privacy-preserving record linkage of large-scale social science data sets	Rainer Schnell and Christian Borgs
12:30 – 12:45	Incentivized data sharing via group-level privacy-preservation	Stefano Bennati and Evangelos Pournaras
12:45 – 13:00	How many of your friends have access to the internet? Estimating internet adoption around the world from a sample of Facebook users	Dennis Feehan and Curtiss Cobb
13:00 – 13:15	Ultrasound technology and 'Missing women' in India: Analyses and now-casts based on Google searches	Ridhi Kashyap, Francesco Billari, Nicolo Cavalli, Eric Qian and Ingmar Weber
Session 5 Finances		Gereon Chair: Lijun Sun
11:45 – 12:00	Demographic trends and social dynamics of a financial bubble	Federico Musciotto, Jyrki Piilo and Rosario N. Mantegna
12:00 – 12:15	An analysis of sponsored content on Twitter	Jaimie Park, Mahmoudreza Babaei, Przemyslaw Grabowicz, Krishna Gummadi and Sue Moon
12:15 – 12:30	Differential network effects on economic outcomes: A structural perspective	Eaman Jahani, Guillaume Saint-Jacques, Pål Sundsøy, Johannes Bjelland, Esteban Moro, and Alex 'Sandy' Pentland
12:30 – 12:45	Ideological creation of market in Socialist China: Change in economic rhetoric in the People's Daily, 1946-2003	Shilin Jia and Linzhuo Li
12:45 – 13:00	Market uncertainty and the network structure of transaction sequences in the EU interbank money market	Federica Bianchi
13:00 – 13:15	Understanding regional economy by decomposing urban labor systems	Lijun Sun, Morgan Frank, Hyejin Youn and Iyad Rahwan
Session 6 Norms, trust, and moral foundations		Laurentius Chair: Dmitry Zinoviev
11:45 – 12:00	How North Korea views China: Applying sentiment analysis to Korean central news agency reports	WeiQi Zhang and Dmitry Zinoviev
12:00 – 12:15	Perceiving and acting: How preferences and perceptions of cultural norms relate to normative compliance	Richard Lu, Jennifer Chatman, Sameer Srivastava and Amir Goldberg
12:15 – 12:30	Political ideology and affective attitudes towards mobility innovation: Comparing survey responses and Twitter data	Nikolas Zöller, Ingo Wolf and Tobias Schröder

12:30 – 12:45	Moral foundations in online conversations	Rishemjit Kaur and Kazutoshi Sasahara
12:45 – 13:00	Trust networks: Topology, dynamics and measurements	Santa Agreste, Pasquale De Meo, Emilio Ferrara, Sebastiano Piccolo and Alessandro Provetti
13:00 – 13:15		

13:15	14:45	Lunch break Supported by SAGE Publishing	Foyer
14:45	15:15	KEYNOTE: Dashun Wang Emergence of scaling in complex substitutive systems Presented by Kellogg School of Management at Northwestern University Chair: Ceren Budak	Maternussaal
15:15	17:30	Poster session I Presented by GESIS Leibniz Institute for the Social Sciences	Foyer
17:30	18:00	KEYNOTE: Ulrik Brandes The space of all centralities Chair: Ceren Budak	Maternussaal
19:00	23:00	Opening reception Supported by GESIS Leibniz Institute for the Social Sciences and Kellogg School of Management at Northwestern University	Boat trip

15:15 – 17:30 POSTER SESSION I

Presented by GESIS Leibniz Institute for the Social Sciences

Title	Authors
1. Geo-spatial network analysis of digital and traditional mobilization: The case of Turkey's failed coup	Hamid Akin Unver
2. What factors drive the success of e-petitions? A case study of the UK government's e-petition website	Bertie Vidgen, Taha Yasseri and Helen Margetts
3. Predicting protest participation from social media	Kokil Jaidka and Saifuddin Ahmed
4. Predicting the success of online petitions leveraging multidimensional time-series	Julia Proskurnia, Przemyslaw Grabowicz, Ryota Kobayashi, Carlos Castillo, Philippe Cudre-Mauroux and Karl Aberer
5. Quantifying structural factors affecting racial tensions during 2016 US Presidential election	Richard Kim, Bjarke Felbo, Nick Obradovich and Iyad Rahwan
6. Computational propaganda: Bots & automated misinformation in the German elections	Lisa-Maria Neudert and Bence Kollyani
7. Sentiment analysis of political tweets based on machine learning approaches using streaming and distributed technologies	Carlos Arcila, Félix Ortega and Miguel Vicente
8. Modeling the evolution of political ideologies	Andrés Abeliuk, Antonio Fernández Anta, Nick Obradovich and Iyad Rahwan
9. Twitter as the new coffee house? The mapping of European issue publics and the analysis of its internal structure	Javier Ruiz-Soler
10. How public policy mood cycles through opinion dynamics	Jan Lorenz
11. The role of homophily in the emergency of controversies	Floriana Gargiulo and Yerali Gandica
12. A long-term analysis of polarization on Twitter	Venkata Rama Kiran Garimella and Ingmar Weber
13. Hybrid Contagion: Theoretical and practical implications for communication campaigns	Jingwen Zhang and Ze Li
14. The audience in Twitter communication	George Boynton, Sikder Huq and Yelena Mejova
15. Exploring the agendas of a large number of discourse actors	Angus Veitch

16. What makes a user's comment persuasive in online discussions? An entry-order examination	Lu Xiao
17. What do users want in Q&A sites: Quality or diversity?	L. Elisa Celis and Siddhartha Tekriwal
18. Press freedom homophily and the structure of the global Internet	Hyunjin Seo and Stuart Thorson
19. Media effects on public opinion about online privacy	Joanna Strycharz, Guda van Noort, Edith Smit, Rens Vliegthart and Natali Helberger
20. Communicating with algorithms: A transfer entropy analysis of emotions-based escapes from online echo chambers	Martin Hilbert, Saifuddin Ahmed, Jaeho Cho, Billy Liu and Jonathan Luv
21. Bots as virtual confederates: Design and ethics	Peter Krafft, Michael Macy and Alex Pentland
22. A construal level approach towards measuring social distance in natural language	Samira Shaikh
23. Automatic prediction of youth unemployment via social media data	Kyriaki Kalimeri, Mariano Gastón Beiró, Andrea Bonanomi, Alessandro Rosina and Ciro Cattuto
24. Modelling "psychological crowd" based on social media data: A case study of Toronto, Canada	Wei Huang, Tomás Usón and Alexander Zipf
25. Understanding para social breakups on Twitter	Venkata Rama Kiran Garimella, Jonathan Cohen and Ingmar Weber
26. Occupational social status modeling with affect control theory	David Choi, Robert Freeland and Jesse Hoey
27. Advancing the understanding of behaviour change through artificial intelligence and machine learning	Ailbhe N. Finnerty, Debasis Ganguly, Emma Norris, Marta Marques, Alison O' Mara-Eves, James Thomas, Lea A. Deleris, Pol Mac Aonghusa, Robert J. West and Susan Michie
28. Mutually-supporting computational and traditional analysis for learning analytics	Bruce Sherin, Nicole Kersting and Matthew Berland
29. Reconstructing a scientific discipline	Thomas Stoeger, Martin Gerlach, Richard Morimoto and Luis Amaral
30. Measuring textual similarity of scientific papers to predict growth and decline of disciplines	Jared Lorince, Martin Gerlach and Brian Uzzi
31. Mining Wikipedia as digital cultural heritage gateway and site	Christian Pentzold, Esther Weltevrede, Michele Mauri, David Laniado, Andreas Kaltenbrunner and Erik Borra
32. The laws of forgetting: How time, popularity, and death shape human collective memory	Cristian Candia Vallejos, Cristian Jara Figueroa, Carlos Rodriguez Sickert and Cesar Hidalgo
33. Analysis of a heterogeneous social network of humans and cultural objects	Santa Agreste, Pasquale De Meo, Emilio Ferrara, Sebastiano Piccolo and Alessandro Provetti
34. Crowdsourcing user relevance judgments for a digital humanities information retrieval system	Martyn Harris, Mark Levene, Dell Zhang and Alessandro Provetti
35. Fertility and its meaning: Evidence from search behavior	Jussi Ojala, Ingmar Weber, Emilio Zagheni and Francesco Billari
36. Improving urban epidemiology using mobile phone data	Emanuele Massaro, Dániel Kondor, Alessandro Vespignani and Carlo Ratti
37. Scientific credibility behind MMR vaccination debates on Twitter	Narjes Tahaei and Aseel A. Addawood
38. Is saki #delicious? The food perception gap on Instagram and its relation to health	Ferda Ofli, Yusuf Aytar, Ingmar Weber, Raggi Al Hammouri and Antonio Torralba
39. Social contagion in water conservation program adoption	Christa Brelsford, Caterina De Bacco and Joshua Abbott

OPENING RECEPTION DETAILS

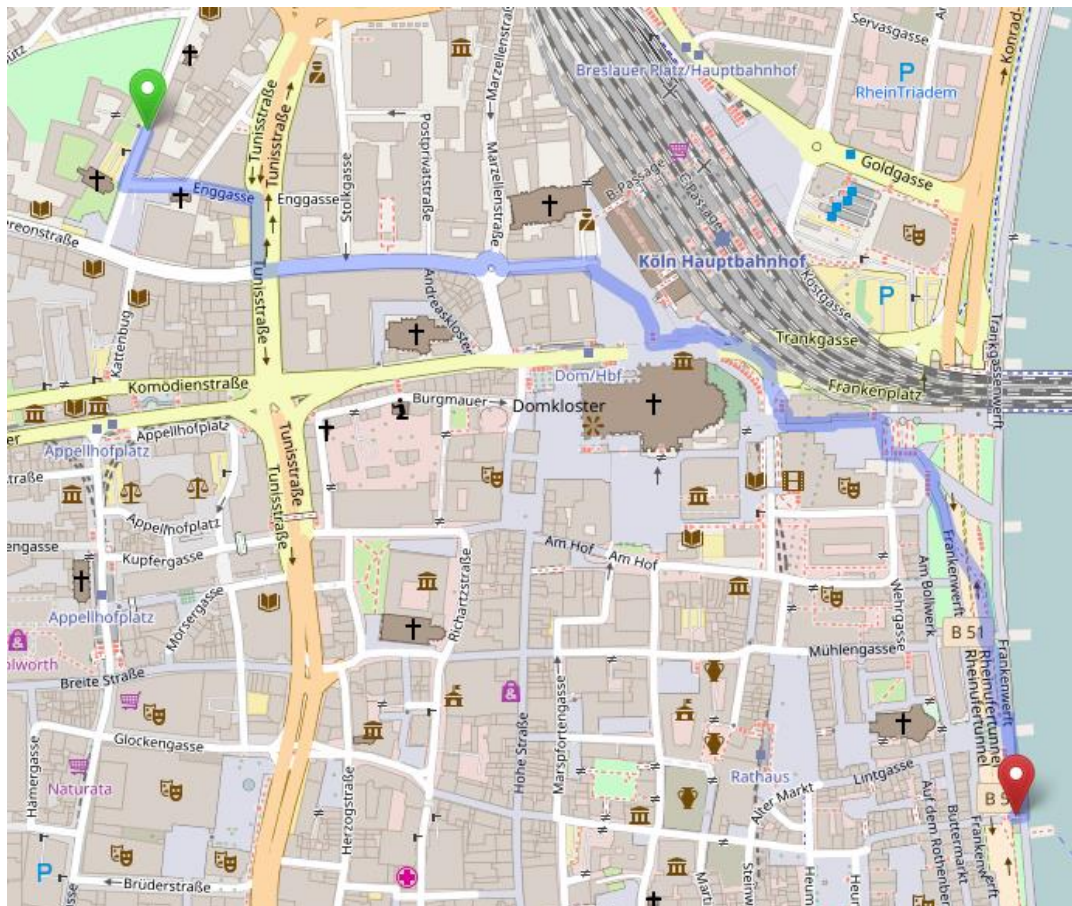
Supported by GESIS Leibniz Institute for the Social Sciences and Kellogg School of Management at Northwestern University

We kindly invite all participants to join the Rhine river cruise on board a modern ship “MS Rhein Fantasie”, where the conference opening reception will take place. Comfortable stay and flabbergasting views of Cologne skyline are guaranteed throughout the voyage and in any weather. On board, we will provide a buffet with refreshments and a range of (non-) alcoholic beverages.



Boarding point (see the map): Köln-Altstadtufer, Pier 2 (Landebrücke 02). In front of the “MS Rhein Fantasie” ship.

- 18:15 Meeting in front of Maternushaus. Volunteers will guide everyone to the pier. Alternatively, join everyone at the boarding point at 18:45
- 18:45 Everyone meets at the pier
- 19:00 Boarding
- 19:30 Departure
- 22:00 Arrival and mooring
- 23:00 Reception closes



DAY 2 – MAIN CONFERENCE

July 12th Wednesday

START	END		LOCATION
10:00	10:30	KEYNOTE: Cecilia Mascolo Human behaviour studies through the lens of mobile sensing and complex networks <i>Chair: Sandra González-Bailón</i>	Maternussaal
10:30	11:00	KEYNOTE: Emily Falk How ideas spread from brain to brain <i>Presented by Microsoft</i> <i>Chair: Sandra González-Bailón</i>	Maternussaal
11:00	11:30	Coffee break	Foyer

11:30 – 13:00 PARALLEL SESSIONS

Session 7	Political phenomena	Maternussaal <i>Chair: Sebastian Stier</i>
11:30 – 11:45	Moral foundations of political discourse: Comparative analysis of the speech records of the US congress and the Japanese diet	Hiroki Takikawa and Takuto Sakamoto
11:45 – 12:00	The hostility bonus: How negativity dominates American political communication	Solomon Messing, Patrick van Kessel and Adam Hughes
12:00 – 12:15	Psychological and personality profiles of political extremists	Meysam Alizadeh, Ingmar Weber, Claudio Cioffi and Michael Macy
12:15 – 12:30	Evolution of moral politics: Analysis on the moral foundations of Korean political parties	Changdong Oh
12:30 – 12:45	Economic miracle, political disaster? Political and social consequences of the Hartz-reforms	Lukas Fervers
12:45 – 13:00	Evolving affiliations amongst UK politicians	Iain Weaver, Hywel Williams, Travis Coan, Iulia Cioroianu and Susan Banducci
Session 8	Health and wellbeing	Adelheid <i>Chair: Mark Lutter</i>
11:30 – 11:45	Using Facebook ads audiences for global lifestyle disease surveillance	Matheus Araújo, Yelena Mejova, Ingmar Weber and Fabricio Benevenuto
11:45 – 12:00	Face-to-BMI: Using computer vision to study body weight in social media profile pictures	Enes Kocabey, Mustafa Camurcu, Ingmar Weber, Ferda Ofli, Yusuf Aytar, Javier Marin and Antonio Torralba
12:00 – 12:15	The link between social feedback and weight loss in a Reddit community	Tiago Cunha, Ingmar Weber and Gisele Pappa
12:15 – 12:30	Computational approaches toward integrating quantified self-sensing and social media	Munmun De Choudhury, Mrinal Kumar and Ingmar Weber
12:30 – 12:45	Celebrity suicides and the Werther effect. An analysis of 34 OECD countries using Wikipedia's celebrity suicide data	Mark Lutter and Karlijn Roex
12:45 – 13:00		
Session 9	Competition	Gereon <i>Chair: t.b.c.</i>
11:30 – 11:45	Personal bests as reference points	Ashton Anderson and Etan Green
11:45 – 12:00	Looking for the strategies in the repeated prisoner's dilemma when the cooperation is established	Jelena Grujic and Tom Lenaerts
12:00 – 12:15	Computational affective model of human action in a social dilemma	Joshua Jung and Jesse Hoey

12:15 – 12:30	Modelling discourse patterns in small groups of competing and co-operating members	Ismo Koponen and Maija Nousiainen
12:30 – 12:45	The Ikea-effect in collective problem solving	Oana Vuculescu, Carsten Bergenholtz and Michela Beretta
12:45 – 13:00	Transparency and re-use patterns of open digital crowd contests: Linking empirical and computational approaches	Sabine Brunswicker and Michael Prietula
Session 10 Collaboration and communities		Quirinus Chair: Dimitris Sacharidis
11:30 – 11:45	Problem-centric network embeddedness and productivity in open source software	Satyam Mukherjee and Sabine Brunswicker
11:45 – 12:00	Sharing strategies: Optimal networks for team collaboration and problem solving	Pj Lamberson, John Lang, Noshir Contractor, Leslie Dechurch and Brian Uzzi
12:00 – 12:15	The network dynamics of social influence in the wisdom of crowds	Joshua Becker, Devon Brackbill and Damon Centola
12:15 – 12:30	Social Bayesian learning in the wisdom of the crowd	Dhaval Adjodah, Yan Leng, Shi Kai Chong, Peter Krafft and Alex Pentland
12:30 – 12:45	The wisdom of dynamic networks: Selective social learning and the adaptive wisdom of crowds	Alejandro Noriega Campero, Abdullah Almaatouq, Peter Krafft, Abdulrahman Alotaibi, Mehdi Moussaid, Alex Pentland
12:45 – 13:00	Observing user behavior in group recommender systems	Dimitris Sacharidis
Session 11 Wikipedia		Dreikönigssaal Chair: Anna Samoilenko
11:30 – 11:45	Studying content survival, authorship & controversy – by tracing every word change on Wikipedia	Fabian Flöck, Kenan Erdogan and Maribel Acosta
11:45 – 12:00	Even good bots fight	Milena Tsvetkova, Ruth Garcia Gavilanes, Luciano Floridi and Taha Yasseri
12:00 – 12:15	Why we read Wikipedia	Florian Lemmerich, Philipp Singer, Robert West, Leila Zia, Ellery Wulczyn, Markus Strohmaier and Jure Leskovec
12:15 – 12:30	Modeling collective attention on promoted content in Wikipedia	Marijn ten Thij, David Laniado, Andreas Kaltenbrunner and Yana Volkovich
12:30 – 12:45	Global warming is different from racism: On the structure of controversy in Wikipedia	Juergen Lerner and Alessandro Lomi
12:45 – 13:00	Linguistic neighbourhoods: Explaining cultural borders on Wikipedia through multilingual co-editing activity	Anna Samoilenko, Fariba Karimi, Daniel Edler, Jérôme Kunegis and Markus Strohmaier
13:00 – 13:15	The evolution and consequences of peer producing Wikipedia's rules	Brian Keegan
Session 12 Settings		Laurentius Chair: Kyle Higham
11:30 – 11:45	School segregation in the digital space	Ivan Smirnov
11:45 – 12:00	Mapping the higher education system	Flavio L. Pinheiro and Sara Encarnação
12:00 – 12:15	Promoting educational attainment at scale with psychological interventions	Rene Kizilcec
12:15 – 12:30	Can network theory-based targeting increase technology adoption?	Lori Beaman, Ariel Benyishay, Jeremy Magruder and Ahmed Mushfiq Mobarak
12:30 – 12:45	Fame and obsolescence: Disentangling growth and ageing dynamics of patent citations	Kyle Higham, Michele Governale, Adam Jaffe and Ulrich Zülicke
12:45 – 13:00		

13:00 14:30 Lunch break
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Foyer

14:30 – 16:00 PARALLEL SESSIONS

Session 13 Protest and activism		Laurentius Chair: Ryan Wesslen
14:30 – 14:45	Measuring the value of low-cost activism for online social and political movements	Lia Bozarth and Ceren Budak
14:45 – 15:00	Explaining protest intensity: The effect of roles and communities in a global cooperation network	Anna-Lena Hönig
15:00 – 15:15	Hot issue publics on Twitter: Analyzing Charlotte protests with automated text analysis	Ryan Wesslen, Tiffany Gallicano, Jean-Claude Thill and Sagar Nandu
15:15 – 15:30	A trigger-conditional Hawkes process model for social protest	Dharmashankar Subramanian
15:30 – 15:45		
15:45 – 16:00		
Session 14 Mobility and geo-Information		Quirinus Chair: Cristina Kadar
14:30 – 14:45	From migration corridors to clusters: The value of Google+ data for migration studies	Johnnatan Messias, Fabricio Benevenuto, Ingmar Weber and Emilio Zagheni
14:45 – 15:00	All roads lead to Lagos: Road networks and the legacies of extractive colonialism	Philipp Hunziker, Carl Muller-Crepon, Matthew Simonson, Lars-Erik Cederman and David Lazer
15:00 – 15:15	Estimating the possibility of trajectory-based reidentification for fusion of large-scale urban mobility datasets	Dániel Kondor, Behrooz Hashemian, Yves-Alexandre de Montjoye and Carlo Ratti
15:15 – 15:30	Gender prediction in gender segregated societies using cell phone data	Riyadh Alnasser, Faisal Aleissa and Michele Catasta
15:30 – 15:45	Leveraging large-scale ubiquitous data for fine-grained crime prediction	Cristina Kadar and Irena Pletikosa
15:45 – 16:00	Small cities face greater impact from automation	Morgan Frank, Lijun Sun, Manuel Cebrian, Hyejin Youn and Iyad Rahwan
Session 15 Network dynamics		Dreikönigssaal Chair: Aamena Alshamsi
14:30 – 14:45	Stochastic popularity of social-media items	Eduardo Altmann
14:45 – 15:00	Computing quantitative taxonomies of social interactions from data	Nikolai Bode
15:00 – 15:15	Inter-modular connectivity creates structural instability in complex contagion	Jana Huisman and Olivia Woolley
15:15 – 15:30	When to target hubs? Strategic diffusion in complex networks	Aamena Alshamsi, Flavio Pinheiro and César Hidalgo
15:30 – 15:45	Reputation and success in Art	Samuel Fraiberger, Roberta Sinatra, Christoph Riedl and Laszlo Barabasi
15:45 – 16:00		
Session 16 Methods		Maternussaal Chair: Claudia Wagner
14:30 – 14:45	Efficient Markov chain Monte Carlo estimation of exponential random graph models	Maksym Byshkin, Alex Stivala, Mira Antonietta, Garry Robins and Alessandro Lomi
14:45 – 15:00	Effects of temporal correlations in social multiplex networks	Michele Starnini, Andrea Baronchelli and Romualdo Pastor-Satorras
15:00 – 15:15	LabVanced: A unified JavaScript framework for online studies	Holger Finger, Caspar Goeke, Dorena Diekamp, Kai Standvoß and Peter König
15:15 – 15:30	Assessing human error against a benchmark of perfection	Ashton Anderson, Jon Kleinberg and Sendhil Mullainathan

15:30 – 15:45	On the estimation of pairwise influences in dynamic choices	Stefano Nasini
15:45 – 16:00	Sampling from social networks with attributes	Claudia Wagner, Philipp Singer, Fariba Karimi, Jürgen Pfeffer and Markus Strohmaier

Session 17 Identity and self-presentation

Adelheid

Chair: Fariba Karimi

14:30 – 14:45	The polarized network of skill complementarity	Morgan Frank, Ahmad Alabdulkareem, Lijun Sun, Bedoor Alshebli, Cesar Hidalgo and Iyad Rahwan
14:45 – 15:00	Visibility of minorities in social networks	Fariba Karimi, Mathieu Génois, Claudia Wagner, Philipp Singer and Markus Strohmaier
15:00 – 15:15	One size fits all: Context collapse, self-presentation strategies and language styles on Facebook	Teresa Gil Lopez, Cuihua Shen, Grace Benefield, Nicholas Palomares, Michal Kosinski and David Stillwell
15:15 – 15:30	Bounded confidence in extreme opinion evolution: An online experiment	Samuel Martin, Sylvie Huet, Pascal Gend, Mohammed Amine Ait Oumajoud, Guillaume Deffuant, Armelle Nugier and Serge Guimond
15:30 – 15:45	Quantifying patterns of research interest evolution	Tao Jia, Dashun Wang and Boleslaw Szymanski
15:45 – 16:00		

Session 18 Discourse

Gereon

Chair: Yasuhiro Hashimoto

14:30 – 14:45	Mapping evolving uncertainty in a complex engineering design project with email mining	Pedro Parraguez, Melanie Kreye, Phil Cash and Anja Maier
14:45 – 15:00	Understanding social influence and inactivity patterns in the Twitter society	David Garcia, Pavlin Mavrodiev, Daniele Casati and Frank Schweitzer
15:00 – 15:15	The effects of conversation threading on online discussion networks	Pablo Aragón, Andreas Kaltenbrunner and Vicenç Gómez
15:15 – 15:30	Mapping out the social web from Big Data: Modeling selection of communication channels	Janos Kertesz, Janos Török, Yohsuke Murase, Hang-Hyun Jo and Kimmo Kaski
15:30 – 15:45	Large fluctuation in social tagging ecosystems	Yasuhiro Hashimoto, Mizuki Oka and Takashi Ikegami
15:45 – 16:00		

16:00	16:30	Coffee break	Foyer
16:30	17:00	KEYNOTE: Kathleen Carley Social Influence on the Web: Bots and fake news Chair: Noshir Contractor	Maternussaal
17:00	17:30	KEYNOTE: Justin Grimmer Exploratory and confirmatory causal inference for high dimensional interventions Presented by SAGE Publishing Chair: Noshir Contractor	Maternussaal
17:30	19:45	Poster session II (reception) Presented by Kellogg School of Management at Northwestern University	Foyer

17:30 – 19:45 POSTER SESSION II

Presented by Kellogg School of Management at Northwestern University

Title	Authors
40. Evaluation of robustness of clustering methods using incomplete data	Kazuki Uchida, Fujio Toriumi and Takeshi Sakaki
41. Combining natural language processing and qualitative content analysis to understand online communication strategies in Italian local elections	Elena Amistà, Francesco Tarasconi and Vittorio Di Tomaso
42. From nought to sixty: Computer-assisted analysis of open-ended survey responses	Maximilian Weber
43. Traditional versus Facebook-based surveys: Evaluation of biases in self-reported psychometric information	Kyriaki Kalimeri, Mariano Gastón Beiró, Andrea Bonanomi, Alessandro Rosina and Ciro Cattuto
44. Improving social research using heterogeneous data: The SMS platform	Peter van den Besselaar, Ali Khalili, Frank van Harmelen and Klaas de Graaf
45. Coupling patterns of virtual and physical behavior	Alfredo Morales-Guzman, Xiaowen Dong, Yaneer Bar-Yam, Burcin Bozkaya and Alex Pentland
46. Dunbar's numbers and social structure: Models and experiments	Ignacio Tamarit, María Pereda, Robin Dunbar and Angel Sánchez
47. Surveillance on networks	Daniele Cassese
48. Network analysis of conspiracy Theories and pseudosciences	Dmitry Zinoviev
49. A mesoscale description of networks' dynamics through continuous partitioning	Pablo Jensen, Matteo Morini, Márton Karsai, Eric Fleury and Patrick Flandrin
50. The effect of the homophilic on the local biased visibility	Eun Lee, Fariba Karimi, Hang Hyun Jo, Markus Strohmaier and Petter Holme
51. Order in user navigational structures on Wikipedia	Patrick Gildersleve and Taha Yasseri
52. Analyzing each other's footprints: Interference in crowded online research ecosystems	Betsy Williams
53. Social contagion and selection in large online systems	Eleonora Patacchini and Chris Rojas
54. Semantic homophily in online communication: Evidence from Twitter	Sanja Scepánovic, Igor Mishkovski, Bruno Gonçalves, Hieu Nguyen Trung and Pan Hui
55. Work related social support in Q&A sites: A content analysis approach	Emese Domahidi, Ana Levordashka, Vivian Fresen and Sonja Utz
56. Annotator traits impact crowdsourced assessment of other users	Lucie Flekova, Jordan Carpenter, Lyle Ungar and Daniel Preotiuc-Pietro
57. Real time prediction of drive by download attacks on Twitter	Amir Javed, Pete Burnap and Omer Rana
58. Foreign-language reviews: Help or hindrance?	Scott Hale and Irene Eleta
59. Black lives matter in Wikipedia: Collaboration and collective memory around online social movements	Marlon Twyman, Brian Keegan and Aaron Shaw
60. Social media and ethnic/racial inclusion: Topic modeling and multiplex network analysis approach	Hyunjin Seo and Nicole Beckage
61. The predictability of communication patterns in spontaneous teamwork	Martin Hilbert, Ryan James, Teresa Gill Lopez, Ke Jiang and Yining Zhou
62. "Scopic Media" and the transformation of interaction order. A sociological interaction-experiment	Werner Reichmann and Carsten Schwede
63. Emergence and stability of status hierarchy	Soojong Kim, Arnout van de Rijt and Damon Centola
64. Reputation dynamics: From theory, to large-scale digital data, to models	Floriana Gargiulo and Gianluca Manzo
65. The significant role of user's community and temporal evolution on stance detection	Mirko Lai, Marcella Tambuscio, Viviana Patti and Giancarlo Ruffo

66. <i>Economic insecurity and the rise in gun violence at US schools</i>	Adam Pah, John Hagan, Andrew Jennings, Aditya Jain, Kat Albrecht, Adam Hockenberry and Luis Amaral
67. <i>Inside out: To understand crime mechanisms look at urban fabric first</i>	Marco De Nadai, Emmanuel Letouzé, Marta Gonzalez and Bruno Lepri
68. <i>Mapping the dimensions of social capital</i>	Katarzyna Growiec, Jakub Growiec and Bogumił Kamiński
69. <i>Is high frequency trading networking a financial market?</i>	Federico Musciotto, Luca Marotta, Jyrki Piilo and Rosario N. Mantegna
70. <i>Predicting economic growth with stock networks</i>	Raphael Heiberger
71. <i>Using predictive analytics to learn and predict customer invoice payment behavior</i>	Mohsen Bahrami, Burcin Bozkaya and Selim Balcisoy
72. <i>A co-evolution perspective on business IT alignment. Implications for corporate management practice</i>	Fabrizio Amarilli
73. <i>Towards a spatial agent-based model of the UK housing market</i>	Adrián Carro and Dooyne Farmer
74. <i>New data on the complex relationships between activities and electricity use in UK households</i>	Philipp Grunewald and Marina Diakonova
75. <i>Co-evolution of consumers' preferences in sharing economy and traditional platforms: The case of hospitality industry</i>	Mohsen Mosleh and Babak Heydari
76. <i>Moral responsibility for suboptimal death toll across vehicle automation regimes</i>	Edmond Awad, Max Kleiman-Weiner, Sohan Dsouza, Jean-Francois Bonnefon, Azim Shariff, Josh Tenenbaum and Iyad Rahwan
77. <i>Global survey of autonomous vehicle ethics using the Trolley problem paradigm</i>	Edmond Awad, Sohan Dsouza, Jean-Francois Bonnefon, Azim Shariff and Iyad Rahwan
78. <i>Ride with me – ethnic discrimination in online car-pooling markets</i>	Jasper Tjaden, Carsten Schwemmer and Menusch Khadjavi
79. <i>Effects of network structure on the performance of a modeled traffic network with drivers' preference heterogeneity</i>	Toru Fujino and Yu Chen
80. <i>Understanding mall visiting patterns with CDR data</i>	Mariano Beiró, Ciro Cattuto, Leo Ferres, Eduardo Graells-Garrido, Loreto Bravo and Diego Caro

DAY 3 – MAIN CONFERENCE

July 13th Thursday

START	END		LOCATION
10:00	10:30	KEYNOTE 9: Daniel Romero Examining the effects of exogenous shocks on social networks and collaborative crowds Chair: Claudia Wagner	Maternussaal
10:30	11:00	KEYNOTE 6: Milena Tsvetkova Social science research with games and gamification Chair: Claudia Wagner	Maternussaal
11:00	11:30	Coffee break	Foyer

11:30 – 13:00 PARALLEL SESSIONS

Session 19	Elections	Dreikönigssaal Chair: Laura Hollink
11:30 – 11:45	Urban scaling in US presidential elections	Eszter Bokányi, Zoltán Szállási and Gábor Vattay
11:45 – 12:00	The spread of fake news on Twitter by voters during the 2016 U.S. general election	Kenneth Joseph, Nir Grinberg, Lisa Friedland, William Hobbs, Carolina Mattsson, Stefan McCabe, Lucas Da Silva Almeida and David Lazer
12:00 – 12:15	Platform effects on social media: Topic salience in a representative survey, Facebook and Twitter during an election campaign	Sebastian Stier, Arnim Bleier, Haiko Lietz and Markus Strohmaier
12:15 – 12:30	Quantifying attention to electoral integrity of foreign states with text analysis	Ashrakat Elshehawy, Nikolay Marinov and Federico Nanni
12:30 – 12:45	The effect of missing translations on analyses of European legislative speech	Laura Hollink, Astrid van Aggelen and Jacco van Ossenbruggen
12:45 – 13:00		
Session 20	Online politics	Adelheid Chair: Taha Yasseri
11:30 – 11:45	Detecting political bots on Russian Twitter	Denis Stukal, Sergey Sanovich and Joshua A. Tucker
11:45 – 12:00	Social bots in Japan's 2014 general election: Preliminary results from a corpus-linguistic and qualitative study of computational propaganda on Twitter	Stefan Evert, Philipp Heinrich and Fabian Schaefer
12:00 – 12:15	Online network organization of an emergent movement-party	Pablo Aragón, Yana Volkovich, David Laniado and Andreas Kaltenbrunner
12:15 – 12:30	The memory remains: Understanding collective memory in the digital age	Ruth Garcia Gavilanes, Anders Mollgaard, Milena Tsvetkova and Taha Yasseri
12:30 – 12:45		
12:45 – 13:00		
Session 21	Popular culture	Maternussaal Chair: Johannes Wachs
11:30 – 11:45	Exploring emotions in online movie reviews	Osna Mokryn, Nadim Bader, Joel Lanir and Yael Albo
11:45 – 12:00	Children names – simulations and facts	Krzysztof Kulakowski and Malgorzata Krawczyk

12:00 – 12:15	<i>Cultural dynamics at Spotify</i>	Marc Keuschnigg, Martin Arvidsson and Peter Hedström
12:15 – 12:30	<i>Using agent based modeling to interpret underlying factors of underrepresentation of minorities in Hollywood films</i>	Carmen Iasiello
12:30 – 12:45	<i>Women and creativity: Gender differences in the production of popular music</i>	Michael Mauskapf, Jared Lorince, Noah Askin, Emoke-Ágnes Horvát and Brian Uzzi
12:45 – 13:00	<i>Gender outcome disparities in an online community of designers</i>	Johannes Wachs, Aniko Hannak, Balint Daroczy and Andras Voros
Session 22 Workplaces		Quirinus Chair: Katie Metzler
11:30 – 11:45	<i>What difference does difference make? A language-based model of cultural heterogeneity and firm performance</i>	Matthew Corritore, Amir Goldberg and Sameer Srivastava
11:45 – 12:00	<i>A cross-country comparison of crowdworker motivations</i>	Lisa Posch, Arnim Bleier, Fabian Flöck and Markus Strohmaier
12:00 – 12:15	<i>Insurance fraud detection: A network modeling and behavioral analytics approach</i>	Eray Alpan, Gokhan Gokturk, Selim Balcişoy and Burcin Bozkaya
12:15 – 12:30	<i>Patients' written reviews as a resource for public healthcare management in England</i>	Radosław Kowalski
12:30 – 12:45	<i>Opportunities and challenges in Computational Social Science: A publisher's perspective</i>	Katie Metzler and Ian Mulvany
12:45 – 13:00		

13:00	14:30	Lunch break	Foyer
14:30	15:00	KEYNOTE: Matt Taddy Economic AI Chair: Markus Strohmaier	Maternussaal
15:00	15:30	KEYNOTE: María Pereda Learning to be nice: Social norm as a result of adjusting expectations Chair: Markus Strohmaier	Maternussaal
15:30	16:00	KEYNOTE: Jeff Hancock Folk theories and cyber-social systems: Understanding people's understanding Chair: Markus Strohmaier	Maternussaal
16:00	16:30	Closing remarks	Maternussaal

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