



Monday 25th September 2017

09:30-18:00			
10:30		Registration	
11:00	PHD Colloquium - Fuat Can Beyazitoglu - Co-evolution of social influence and social selection: A social simulation approach to explain polarization and extremism	PHD Colloquium - Wokomo Netrawidjaja - Agent-based modeling of opinion and group formation	
11:30	PHD Colloquium - Enas Alkafadi - Agent-based modeling of opinion and group formation	PHD Colloquium - Willy Wierwille - The internet as a catalyst for social movements: How small issues can have big consequences	
12:00	PHD Colloquium - Liu Yang - Simulation-based decision support for integrating urban transport infrastructure with social and environmental systems	PHD Colloquium - Elizabeth Hunter - A socioeconomic segregation model to help setup an agent-based model for infectious diseases	
12:30	PHD Colloquium - Link Alberto Sanchez Zaverucha - Conceptual model	PHD Colloquium - Link Alberto Sanchez Zaverucha - Conceptual model	
12:45		PHD Presentation followed by lunch	
13:00		PHD Colloquium - Round-table session	
14:00-16:00	Workshop - QualTrize - Using qualitative data to inform behavioral rules - HL 47	Workshop - Hands on programming workshop for SSM models - E2 14	Workshop - Optimization of execution of large scale simulation experiments in the cloud - E6 32

16:00		PHD Colloquium - Coffee / Tea break - GM	
16:30		PHD Colloquium - Plenary talk by Emilio Chappin - GM	
17:30		PHD Colloquium - Plenary talk by Gary Poethel - GM	
18:00		PHD Dinner	

9:30	Welcome Address - GM		
10:00	Keynote Lecture - Room: George Moore Auditorium		
10:15	Professor Kathleen Carley	Diffusion in the Social-Cyber Landscape:	Lunch

11:30	ESSA Management Committee Meeting (Invite Only) Room H2.23		
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11:30	Bias in Norms - HL 47	Cognition - E6 32	Data Input & Validation - GM	Democracy - E2 14
11:45	Bruce Edmonds Explaining cognitive and social bias	Olivera Palova A novel model of traffic modelling framework for transport systems	Felix Doherty & James Employing approximate bayesian computation in the validation of social-ecological agent-based models	Samuel Bello, Fabrice Vassalot An agent-based model of information flow and political identification

12:15	Paula Sobkowicz Opinion dynamics model based on cognitive biases of complex agents	Yessyk Shih, Mike Bichell An agent-based assessment of health vulnerability to long-term particulate exposure in local districts	Nick Mulrow, Alice Tapper, Jonathan Ward, Andrew Evans Forecasting short-term urban dynamics: data assimilation for agent-based modelling	Fuho Toriumi, Isamu Okada, Hisashi Yamamoto Expectation for response encourages social media
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12:45	1845 Motive conflicts: An empirically informed agent-based modelling study		Nicklas Daxböck, Ann Seeliger, Giulia Andriaghello, Luca Turchetti From the lab to the field: Using ABM to extrapolate from the behavior of human subjects in a group reputation experiment	
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14:15		Raffaello Seri, Davide Secchi Calculating the number of rats per condition in agent-based modelling. An application of statistical power analysis		
14:45	Diffusion - E1 19	Economics - HL 47	Studying Output - GM	Policy Issues - H2 20
15:15	Rob Babb, Masami Nakagawa Information diffusion as a mechanism for natural evolution of social networks	Yusuf Agha, Rameez Raouf, Yaseen Bafflo Saleh, Victoria Hernandez Torres Social mobility, economic growth and socioeconomic inequality in an economy without informality and with social protection	Shahzad Alam, Harmaid Patel, Mubshira Abbasi, M. Saad Analyzing agent-based simulations using exploratory and data mining	Tamara Hracharova A model of knowledge transfer and integration of the science-policy interface

15:45	Valentin Barthe, Ludovic Rochoux, Ron Guédon Stability and representativeness of INO networks: the influence of communication on norms	Reginald Kaminski, Katarzyna Grimalda, Jakob Grunewald A dynamic model of social capital and economic performance in social networks	Mehmet Ali Ebrahim, Amish Ghoshkar, Pradeep Hender ABM: A Framework for using machine learning techniques for agent-based modelling	Valentina Turilli, Marco Caporaso Innovation policy driven by actors with heterogeneous perceptions: An agent-based model based on the forestry sector
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16:15	Michelle Howard, Christian Summer The effect of negative campaigning on the emergence of dominant designs - An agent-based simulation approach	Frederick Schuff Pure agent-based computational economics	Nuno Mateus, Link Antunes Generating a discernible function, towards mutations on discernibility matrix	
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16:45		Bhaski Stephan Orango, Lucy Elizabeth Morgan The importance of input uncertainty qualification in social science simulation		
17:15-18:15	Welcome Reception - Fourth Floor			

18:30	Wednesday 27th September 2017			
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8:30	Innovation - GM	Finance - HL 47	Queue 2 - H2 14	Regulation - H2 32
8:30	Heider Al-Jabbari (E6 39-49) Societal dimensions of nanotechnology	Federica Cecconi, Daniele Vilone, Maria Padellaro ABM@EIT: An agent-based model of NPI (Non Performing Loan) dynamics	Patrick Adams, Heide Vorhagen (E6 39-49) Qualitative data in the service of model building: The case of structural thinking	Fernando Guerrero, Fernando Cerezo Ecolytic systems and the distribution of public policies: An agent-based model of structural thinking

9:00	Bert Droste-Franke, Gabriele Fohr (E6 39-49) Simulating innovation of key technologies in German energy transition	Morito Hashimoto, Setsuya Kurahashi Management integration impact analysis of financial institutions based on a fund transaction network model	Marcelo Aurado Santos da Silva, Pascal Rogero (E6 39-49) A simulation model for assessing social empowerment: The case of the southern rural workers of Senegal, Brazil	Manoel Henrique, Setsuya Kurahashi Prescription for urban sprawl - street attractiveness changes the city
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9:30	Ruth Meyer (E6 39-49) Exploring the impact of digital ODT on the workplace	Takemasa Okuchi, Masashi Kunigami, Takashi Yamada, Hiroshi Takahashi, Takao Terano Simulation on the effect of financial regulation on stability of financial system and financial institution behavior	Oswaldo Teran, Christophe Scharif-Blass (E6 39-49) The Venezuelan system of potato production: A simulation model to understand roots of deforestation	Luca Pappalardo, Werner Williams, Harjyot Singh Shukhman The greater Dublin region, Ireland: Experiences in applying urban modelling in regional planning and engaging between scientists and stakeholders
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10:00	Break			
10:00	Keynote Lecture - Room: George Moore Auditorium			
10:00	Professor Blake LeBaron	Self-generating Economic Forecast Heterogeneity		

12:00	Exploring Opportunities for Collaboration, Training and Research Followed by Lunch			
13:00	Plenary - GM			
13:00	Bruce Edmonds	The post-truth drift in social simulation		

13:30	Nigel Gilbert	Being good: towards an ethics of modelling		
14:00	Flaminio Squazzoni	Getting it transparent or keeping it obscure? Potential implications of open peer review on scientist competition and collaboration		
14:30	Wander Jager	Psychological theory in social simulation: a complicated love affair		

15:00	Break			
15:00	Norms - GM	Markus - E6 32	Queue 2 - H2 14	Environment - H2 20
15:00	Rita Mearns, Virginia Dignum, Catherine Jenker Using values and norms to model realistic social agents	Margaret Eyalshel A fuzzy multi-agent based system in technology strategy making	Stephanos Demetriadou (E6 39-49) Whether to proceed: A computational analysis of mobilization for the Arab Spring	Alberto Corralco, Koan K. van Dam, Raphael Stalle Modelling the role of institutions in the deployment of anaerobic digestion: An agent-based analysis of on-farm adoption decisions in the UK

16:00	Moritz Helmreich, Simeon John Muehl Firms strategic positioning in dynamic strategic space: Agent-based approach	Emilio Chappin, Gilbert Norrwar, Sabina Jeska Teaching the modelling of integrated energy systems - course design and first experience	Sam Pugh, Harjyot Singh, Nigel Gilbert (E6 39-49) An empirically informed practice-centric approach to model demand response in households:	Manoel Henrique, Sacha Houbang, Jürgen Schellman Agent-based and integrated assessment modelling of climate change
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16:30	QualTrize - Gary Poethel, Yongjie Wang Formalizing Callon's theory of translation	Anteo Chacabuco, Mark Pugh, Merve Lamayene, David Johnson Rethinking the supplier risk management literature with case studies and agent-based simulation	Ute Andrea (E6 39-49) Ontological politics: From rich, messy complex reality to more (?) realistic agents. Sacrifices in terms of world views, objectives and potentials	Stefanie Schulz, Wander Jager, Fabian Helmman, Yehorov Anthony Sun, Ian Mack Whiting et al. Use of energy transition game to teach multi-agent complexity - experiences from a test case at Gronau University
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17:00	Ingo Wolf, Vera Roehr, Tobias Schneider Election data can inform simulations of innovation perception			
17:30	Synthetic Populations: building & modelling - RT - GM			

18:00	Thursday 28th September 2017			
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8:30	Cooperation - H2 20	Games - HL 47	Modelling - GM	Society and Environment - H2 38
8:30	Silvana Dima, Dirk Helbing Assessing matching with inequality in voluntary contribution games	Carole Adam, Franck Vallandier A curious game for teaching natural risk management	Patrick Adams-Johnson, Antonio Toniato Flores Modelling commons-based peer production: The 'commons framework'	John Gonzalez-Ruiz, I. Gary Poethel, Isai E. Gordon, Rocarmery Will Using agent-based modelling to explore sustainable futures under debt-based social ecological systems: A case study in Honduras

9:00	Melanie Koppen, Manfred Fuhs Smooth and cascading transitions in cooperation on scale-free networks	Melanie Koppen, Sam Wilmes, Peter Hohn, Rafael Wyrzykiewicz Theoretical challenges in designing a social simulation game of balancing sustainability objectives in fisheries management	Wander Jager, Marco A. Jansen Consumers in Lakeland: Exploring the variability in a social-ecological system caused by alternative formalizations of human decision making	Abhis Kumar, Heide Adams, Ricardo Salas de Campos Migration as an adaptation to climate change in deltaic regions: A modelling study
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9:30	Naoru Okada, Tetsuya Sakai, Yutaka Nakai Teaching a new norm of indirect reciprocity with private information	Emilio Chappin, Gilbert Norrwar, Sabina Jeska Teaching the modelling of integrated energy systems - course design and first experience	Zhan Sun The world goes to do agent-based modelling	Julie Thoburn, Nina Schwaner, Kathleen Hermans The world goes to do agent-based modelling: A review
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10:00	Yoshiki Yamamoto, Isamu Okada, Senichi Okada, Tetsuya Sakai Is it always there necessary? An analysis of social norms required for the transition to cooperative societies	Kevin Tomiyama, Gemma Skelton, Wander Jager The energy transition game: Experiences and ways forward	Harjyot Shukhman, Brandon Williams, Gerit Knapp, Eda Utanoglu, Raf Mueckel Coupling District Models to Inform Integrated Urban Development Policy Decisions: International Application	Lu Zhang, Koan K. van Dam, Audrey de Nazare, Sari Arvan Simulation-based decision support for integrating urban transport infrastructure with social and environmental systems
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10:30	Keynote Lecture - Room: George Moore Auditorium			
11:00	Professor Arno van de Rijl			
12:00	Models of cumulative advantage			

12:00	Violence - E2 14	ESSA@Work 2 - E6 32	Programming - HL 47	Social Ecology - GM
12:00	Onide Natali, Giangiacomo Broso Food and fuel ABM - An ABM to simulate food and fuel riots	ESSA@Work 2 - E6 32 Peer-Off Siders, Jonathan S Nguyen-Van-Tan Antiviral treatment for pandemic influenza: A coupled behavioural and epidemic agent-based model	Managing large scale agent-based simulation experiments in the cloud: lessons from route-to-a-aim model	Support Database, Julie Schuler, Brigit Müller, Jürgen Groenewald, Nina Schwarz et al. (E6 39-49) Advancing agent-based modelling of human decisions in social-ecological systems - Pathways to sharing and reuse of models

13:30	Justin J. E. Lane Mutually escalating religious violence: A generative and predictive agent-based model	Severin Smith Evaluating the circle of cooperation to sustainability: An ABM in netlogo	Mathieu Bourque, Patrick Vallandier, Alexis Drogou, Laurent Veronique Using parallel computing to improve the scalability of models with 80k agents	Wander Jager (E6 39-49) The dynamics of human needs and their relevance in socio-ecological systems
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14:00	Alexander Dzhukhalski, Juhan A. Elshik, Hang Xiong Detecting from Autocross: Evidence from North Korea and a Simulation Model		Jonathan Thaler, Peer-Off Siders The art of iterating: Update strategies in agent-based simulation	Gary Poethel, Rob Knorr, Knut Anders Hovstad, Jiang Gu (E6 39-49) Using case-based reasoning as a basis to represent boardwalks' norms of capital for agricultural simulation
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14:30		Hang Xiong, George Bobbiew Psychometric testing with simulations		Nidhara Banerjee, Andrew Evans (E6 39-49) Representation of intra-household dynamics in agent-based models of smallholder communities
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15:00		FRERB Review - E6 32	Networks - GM	Fisheries - HL 47
15:30	Samuel Schifano, Eckhard Olbrich Opinion polarization by learning from social feedback	FRERB Review - E6 32 Mario Paschold, Francisco Grimalda, Jori Salaber Reputation or peer review? The role of the outlier	James Duffin, Frank Kee, Ruth F Hunter Does the choice of initial network matter for behaviour contagion?	Julia Cederwoud Modelling fishing behaviour in the Irish demersal fleet to determine how changes in the response to post catch composition may extend fishing opportunities under the landing obligation

16:00	Christophor Frantz, Amish Ghoshkar Inequality: driver or inhibitor of collective action?	Davide Schifano, Stephen J. Conroy Does the Impact Factor affect reviewer judgement? A simulation study of peer-reviewed scientific value	Federico Bianchi, Andrea Flecha, Flaminio Squazzoni Solidarity and competition: Simulating social support between competing business partners	Emilio Cervelli Repeated discrete choices in geographical agent-based models with an application to fisheries
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16:30	Marta Katarzyna, Kevyn Talbot Governance of transitions: A simulation experiment on urban transportation	Valerio Vellano Peer review and journal competition: an agent-based model	Edward Charles Brown Why questions like 'Do networks matter?' Matter to methodology	Samuel Hordal, Frank Dignum Value based agents for social simulation of fishery management
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17:00	Flaminio Squazzoni, Federico Bianchi Simulating peer review: prospects and challenges		Martina Dunser, Manfred Paier, Arvid Unger Modelling collaborative knowledge creation process: An empirical application to the semiconductor industry	Davide Schifano, David Bail, Hannes Hoffo, Kath Farnsworth, Sarah Kraak Real-time incentives: An improved and innovative fisheries management solution
17:30	ESSA Assembly and AGM			

18:00	Friday, 29th September 2017			
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8:30	Population - HL 47	Social Networks - GM	Demography - E6 32	Violence - H2 20
8:30	Tatsuya Haraoka, Tadahiko Morita Projecting synthetic households on buildings using fundamental geographical data	Mariam Ebrahimi, Rahabid Ebrahimi An analysis of the impact of business networks on technology development: using agent-based modelling	Marina Ebrahimi, Rahabid Ebrahimi An analysis of the impact of business networks on technology development: using agent-based modelling	Valerio Vellano Political polarization in Ukraine 2014: Opinion and territorial split demonstrated with the bounded confidence XT model, validated by twitter data

9:00	Gillian Golden The geography of opportunity in rural Irish primary schools: A micro-level approach	Jiao Gu, Gary Poethel Can cooperation, profitability, and off-farm income explain the polarization of cattle farms in Scotland?	Andreas Koch A simulation-based perspective on social capital	Elizabeth Hunter, Brian Mac Namee, John Kelleher A socioeconomic segregation model to help setup an agent-based model for infectious diseases
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9:30	Fabrizio Vassallo Governance of transitions: A simulation experiment on urban transportation	Iris Lorscheid Individual vs collective intelligence: Which group performs better, worse, and what makes the difference?	Luca Pappalardo Bayesian model selection for exponential random graph models via adjusted pseudolikelihoods	Gabriele Di Fronzo, Federico Bianchi, Flaminio Squazzoni Social selection and innovation diffusion in mutualist instability: An empirically-calibrated agent-based model of partnership change in Italy 1995-2011
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10:00	Roger Mitchell, Phil Conley, Jay Rimer, William Wheaton, Nyssa IAH A geo-spatial individual based storming intervention model applied to Indonesia			Elizaveta Arsenyeva, Jan Van Bavel The mid-twentieth century baby boom and the role of social interaction: An agent-based model-based approach
10:30	Keynote Lecture - Room: George Moore Auditorium			
11:00	Professor Michael Mavy			

12:00	Closing Ceremony and ESSA Awards - GM			
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*Correct at the time of publication. Note that room capacities vary so please arrive to your sessions early to ensure the best chance of getting access