



Social Simulation Conference 2021 Conference Programme

CEST (Warsaw local) time is used

The numbering of the abstracts corresponds to the numbering in the book of abstracts

Partners:



Monday 20-09-2021

| | | | |
|--------------|--------------|--|---|
| 10:00 | 11:30 | Workshop I Simulating social innovation and systemic changes | Patrycja Antosz, Gary Polhill, Tatiana Filatova, Wander Jager and Roman Seidl |
| 10:00 | 14:00 | Workshop II An introduction to agents-based simulations in Julia language | Bogumił Kamiński and Przemysław Szufel |
| 10:00 | 15:00 | Workshop III PhD colloquium | Timo Szczepanska, Federico Andreotti, Leonard Higi and Diego Dametto |
| 12:00 | 13:30 | Workshop IV ACTISS at SC2021 Cracow | Wander Jager |

Tuesday 21-09-2021

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| 09:15 | 09:45 | Opening | <i>Petra Ahrweiler, Marcin Czupryna, Bogumił Kamiński</i> |
| 10:00 | 11:00 | Key-note presentation I | Alexis Drogoul: Modelling for Sustainability <i>Chair - Petra Ahrweiler</i> |
| 11:30 | 13:00 | Parallel sessions I | |
| 13:45 | 15:45 | Parallel sessions II | |
| 16:00 | 17:00 | Key-note presentation II | Alan Edelman: Julia and simulations <i>Chair - Bogumił Kamiński</i> |
| 17:30 | 19:00 | Roundtable I | Integrating Evidence Using Agent-Based Modelling <i>Chairs - Bruce Edmonds, Melania Borit</i> |

Wednesday 22-09-2021

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| 09:00 | 10:00 | Key-note presentation III | Charlotte K. Hemelrijk: Dynamics of dominance between the sexes <i>Chair – Harko Verhagen</i> |
| 10:15 | 12:15 | Parallel sessions III (incl. ESSA@work) | |
| 12:20 | 12:40 | Poster Session I | |
| 12:40 | 13:00 | Poster Session II | |
| 13:45 | 15:45 | Parallel sessions IV | |
| 16:00 | 17:00 | Key-note presentation IV | Leigh Tesfatsion: Agent-Based Modeling: The Right Mathematics for Social Science? <i>Chair - Marcin Czapryna</i> |
| 17:15 | 18:15 | ESSA General Assembly | |
| 18:30 | 20:00 | Roundtable II | The Future of Experiments in ABM <i>Chairs: Nanda Wijermans, Edmund Chattoe-Brown</i> |

Thursday 23-09-2021

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| 09:00 | 11:00 | Parallel sessions V | |
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| 11:30 | 13:30 | Parallel sessions VI | |
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| 14:30 | 16:30 | Parallel sessions VII | |
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| 17:00 | 18:00 | Key-note presentation V | Li An: Advancing agent-based complex systems science with data science and artificial intelligence |
| | | | <i>Chair: Flaminio Squazzoni</i> |
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| 18:15 | 19:15 | Meeting JASSS Editor | Flaminio Squazzoni |
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| 19:15 | 21:15 | Roundtable III | Increasing Rigour of ABM |
| | | | <i>Chair: Bruce Edmonds</i> |

Friday 24-09-2021

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| 09:00 | 10:00 | Key-note presentation VI | Katarzyna Sznajd-Weron: Towards understanding of the social hysteresis: an agent-based approach |
| | | | <i>Chair: Gary Polhill</i> |
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| 10:30 | 12:30 | Parallel sessions VIII | |
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| 12:30 | 13:00 | Closing | <i>Petra Ahrweiler, Marcin Czupryna, Bogumił Kamiński</i> |

Parallel sessions I Tuesday, 11:30-13:00

A: Social identity approach modeling

Chairs: Nanda Wijermans, Geeske Scholz

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| 92 | Social Identity in Agent-based Models: A Systematic Review | Geeske Scholz , Nanda Wijermans, Rocco Paolillo, Torsten Masson, Martin Neumann, Émile Chappin, Anne Templeton and Geo Kocheril | Extended Abstract |
| 50 | Towards more realism in pedestrian behaviour models First steps and considerations in formalising social identity | Nanda Wijermans and Anne Templeton | Full Paper |
| 27 | Social Identity and Management Control: A Social Simulation Perspective | Friederike Wall | Extended Abstract |

B: Heterogeneous and diverse economic agents

Chairs: Stephan Leitner

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| 11 | On the Role of Incentives in Evolutionary Approaches to Organizational Design | Stephan Leitner | Full Paper |
| 73 | Exploring Coevolutionary Dynamics of Competitive Arms-Races Between Infinitely Diverse Heterogenous Adaptive Automated Trading Agents | Nik Alexandrov , Dave Cliff and Charlie Figuero | Full Paper |
| 70 | Inequality in the COVID-19 Pandemic and the Containment Measures: An Agent-based Exploration | Patrick Mellacher | Extended Abstract |

C: General Track

Chairs: Małgorzata Snarska

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| 8 | Building An Opinion Dynamics Model From Experimental Data | Dino Carpentras , Michael Quayle and Paul J Maher | Full Paper |
| 29 | Young Liberals? An Agent-Based Model of Opinion Shifts among Cohorts | Ivan Puga-Gonzalez and F. Leron Shults | Full Paper |
| 31 | The Dynamics of Follower Networks and Spread of Opinion in a Twitter Agent Based Model | Stephen Dipple and Kathleen Carley | Extended Abstract |

Parallel sessions II Tuesday, 13:45-15:45

A: Artificial Sociality

Chairs: Gert Jan Hofstede

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|----|--|---|------------|
| 14 | Simulating social reality | Martin Neumann | Full Paper |
| | | Rob Nelissen , Ivet Andres Munoz, David Cristobal Munoz, Mark Kramer and Gert Jan Hofstede | Full Paper |
| 6 | Efficient Redistribution of Scarce Resources Favours Hierarchies | Hideyuki Nagai and Setsuya Kurahashi | Full Paper |
| 33 | Evaluation of measures to prevent and control COVID-19 compatible with the local economy | Patrycja Antosz , Wander Jager and Loes Bouman | Full Paper |
| 96 | Modelling social innovation with empirical calibrated models using HUMAT | | |

B: Heterogeneous and diverse economic agents

Chairs: Stephan Leitner, Friederike Wall

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|----|--|---|------------|
| 17 | Effects of limited and heterogeneous memory in hidden-action situations | Patrick Reinwald , Stephan Leitner and Friederike Wall | Full Paper |
| 23 | Autonomous group formation of heterogeneous agents in complex task environments | Dario Blanco Fernandez, Stephan Leitner and Alexandra Rausch | Full Paper |
| 87 | Exploring regional agglomeration dynamics in face of climate-driven hazards: insights from an agent-based computational economic model | Alessandro Taberna , Tatiana Filatova, Andrea Roventini and Francesco Lamperti | Full Paper |
| 3 | Pay-for-Performance and Emerging Search Behavior: When Exploration Serves to Reduce Alterations | Friederike Wall | Full Paper |

C: General Track

Chairs: Dino Carpentras

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|-----|---|--|-------------------|
| 48 | Comparison of Viral Information Spreading Strategies in Social Media | Sri Sailesh Meegada and Subu Kandaswamy | Full Paper |
| 104 | An Evidence-Driven Model of Voting and Party Competition | Ruth Meyer , Martin Dolezal, Marco Fölsch and Reinhard Heinisch | Full Paper |
| 18 | Facing the election prediction problem with agent-based models using particle filtering | Ernesto Carrella | Extended Abstract |

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| 66 | Conspiracy network in Facebook pages during pandemic outbreak: An Agent Based Model of misleading information in an echo chamber | Vanessa Russo, Federico Cecconi, Eugenia Polizzi di Sorrentino, Mario Paolucci, Giulia Andrighetto and Mara Maretti | Extended Abstract |
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Parallel sessions III, Wednesday 10:15 – 12:15

A: Norms and institutions in the social environment

Chairs: Amineh Ghorbani, Christopher Frantz

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| 54 | DIPP: Diffusion of Privacy Preferences in Online Social Networks | Albert Mwanjesa , Onuralp Ulusoy and Pinar Yolum | Full Paper |
| 91 | How do value prioritization of nations relate to shared strategies for combatting the pandemic? An ABM approach | Molood Ale Ebrahim Dehkordi , Anna Melnyk, Amineh Ghorbani and Paulien Herder | Extended Abstract |
| 78 | PANDORA - an Agent-Based-Model to analyze acceptance of (energy) policies, applied to policies targeting the German heating sector | Alexandra Pröpper and Friedrich Krebs | Extended Abstract |
| 112 | The effects of incentives, social norms, and employees' values on work performance | Michael Roos, Jessica Reale and Frederik Banning | Full Paper |

B: Heterogeneous and diverse economic agents

Chairs: Stephan Leitner, Friederike Wall

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|----|---|--|-------------------|
| 95 | Dynamics of Wealth Inequality in Simple Artificial Societies | John Stevenson | Extended Abstract |
| 19 | Agent based model for establishing and maintaining social relationships by heterogeneous actors | Katarzyna Growiec, Beata Łopaciuk-Goncaryk and Bogumił Kamiński | Extended Abstract |
| 47 | On the dynamics of relative prices and the relationship with inflation: an empirical approach | Emiliano Alvarez , Juan Gabriel Brida and Pablo Mones | Full Paper |
| 74 | A bibliometric survey of macroeconomic topics in ABM | Emiliano Alvarez , Juan Gabriel Brida and Silvia London | Extended Abstract |

C: ESSA@work

Chairs: Dino Carpentras, Natalie Davis, Silvia Leoni, Kavin Narasimhan

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| 80 | Supporting the use of agent-based simulation models by non-modeller urban planners and architects | Liu Yang , Yuan Zhu and Koen van Dam | Full Paper |
| 113 | Automation-induced Reshoring - An Agent-based Model of the German Manufacturing Industry | Laura Merz | Full Paper |

Social Simulation Conference 2021 Conference Programme

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| 9 | Whose Law? Social Movement Influence on International Law Making: An Agent-based Perspective | Katharina Luckner | Extended Abstract |
| 94 | Resource Distribution in Supply & Demand Systems | Laurin Hagemann | Extended Abstract |

Parallel sessions IV Wednesday 13:45 – 15:45

A: Norms and institutions in the social environment

Chairs: Amineh Ghorbani, Christopher Frantz

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| 46 | Local Reputation, Local Selection and the Leading Eight Norms | Shirsendu Podder , Simone Righi and Karoly Takacs | Full Paper |
| 51 | Explaining and resolving norm-behavior inconsistencies – A theoretical agent-based model | Marlene Batzke and Andreas Ernst | Extended Abstract |
| 4 | Reputation and punishment sustain cooperation in the Optional Public Goods Game | Simone Righi , Shirsendu Podder and Francesca Pancotto | Extended Abstract |
| 109 | Modelling the effect of pricing on district heat network adoption in Aberdeen | Doug Salt and Gary Polhill | Full Paper |

B: Computational approaches to management and organisation theory

Chairs: Davide Secchi, Cesar Garcia-Diaz, Abhijit Sengupta

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| 40 | Institutional Emergence: A study on French Business Schools | Siavash Farahbakhsh and Davide Secchi | Full Paper |
| 45 | Understanding Evaluation Mechanisms of Online Community-based Information and Knowledge | Chenlong Wang and Pablo Lucas | Full Paper |
| 15 | Simulating the role of leadership in artifacts-enabled formation of organizational routines | Dehua Gao , Yumei Yang and Jiangfeng Ni | Full Paper |
| 59 | Balancing the Vicious Circle of Organizational Resistance to Change: An Agent-Based Approach | Orsolya R. Szabó and Davide Secchi | Extended Abstract |

C: General Track

Chairs: Dino Carpentras

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| 56 | From the lab to the model: Exploring the dynamics of a social norm of honesty in a participative budgeting setting | Matthias Meyer and Jannick Plähn | Extended Abstract |
| 13 | Shrinking housing's size: Using agent-based modelling to explore measures for a reduction of floor area per capita | Anna Pagani , Francesco Ballestrazzi and Claudia R. Binder | Full Paper |
| 20 | The Problem with Bullying: Lessons Learned from Modelling Marginalization with Diverse Stakeholders | Themis Dimitra Xanthopoulou , Andreas Prinz and F. Leron Shults | Full Paper |
| 38 | How task complexity affects group performance and motivation: the comparison between self-organising and top-down task allocation | Shaoni Wang , Kees Zoethout and Wander Jager | Full Paper |

Parallel sessions V Thursday 09:00 – 11:00

A: Using qualitative data to inform behavioral rules

Chairs: Melania Borit, Bruce Edmonds

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| 98 | Documenting Data Use in a Model of Pandemic “Emotional Contagion” Using the Rigour and Transparency Reporting Standard (RAT-RS) | Patrycja Antosz , Justin Lane, Ivan Puga-Gonzalez, Roger Normann and Leron Shults | Full Paper |
| 102 | Understanding complexities in small-scale fisheries: Combining stories and simulations | Emilie Lindkvist , Tim Daw, Elizabeth Drury O'Neill, Rosemarie Mwaipopo, Andrew Wamukota and Maja Schlüter | Extended Abstract |
| 108 | A methodology to develop agent-based models for policy design in socio-technical systems based on qualitative inquiry | Vittorio Nespeca , Tina Comes and Frances Brazier | Full Paper |
| 77 | Momentum selection, distance decay and the fate of linguistic innovations | Henri Kauhanen | Full Paper |

B: High performance computing challenges in social simulation

Chairs: Bogumił Kamiński

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| 10 | An Introduction to HANS Solver - Julia powered toolbox for heterogeneous agents static equilibrium agents static equilibrium models with discrete choice and incomplete markets | Mateusz Szetela | Full Paper |
| 65 | Surrogate agent-based models via gradient boosting tree, a preliminary analysis | Francesco Mattioli and Mario Paolucci | Extended Abstract |
| 34 | An Application of Agent-Based Models to an Evolutionary Game | Jacobus Smit and Edward Plumb | Extended Abstract |
| 84 | Improving speed of models for improved real-world decision-making | Jason Thompson , Haifeng Zhao, Sachith Seneviratne and Rohan Byrne | Extended Abstract |

C: General Track

Chairs: Dino Carpentras

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| 55 | On the impact of misvaluation on bilateral trading | Sacha Bourgois-Gironde and Marcin Czupryna | Full Paper |
| 58 | Consumer Participation in Demand Response Programs: Development of a Consumat-based Toy Model | Judith Schwarzer and Dominik Engel | Full Paper |

Social Simulation Conference 2021 Conference Programme

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| 67 | Using MBTI agents to simulate human behavior in a work context | Luiz Braz and Jaime Sichman | Full Paper |
| 64 | COMMONSIM A commons-grounded multi-sector agent-based political economic utopia | Ernest Aigner , Lena Gerdes, Stefan Meretz, Hanno Pahl, Annette Schlemm, Manuel Scholz-Wäckerle, Jens Schröter and Simon Sutterlützi | Full Paper |

Parallel sessions VI Thursday 11:30 – 13:30

A: Social simulation for local actors empowerment

Chairs: Kevin Chapuis, Arthur Perrotton

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| 61 | Support local empowerment using various modeling approaches and model purposes: a practical and theoretical point of view | Kevin Chapuis , Marie-Paule Bonnet, Neriane Da Hora, Christophe Le Page, Jôine Cariele Evangelista-Vale and Gustavo Melo | Full Paper |
| 5 | Developing a stakeholder-centric simulation tool to support integrated mobility planning | Diego Dametto , Gabriela Michelini, Leonard Higi, Tobias Schröder, Daniel Klaperski, Roy Popiolek, Anne Tauch and Antje Michel | Full Paper |
| 105 | An agent-based model to operationalize actor responsibilities and distributive justice in a stylized social system | Aashis Joshi , Emile Chappin and Neelke Doorn | Extended Abstract |

B: Social simulation and games

Chairs: Melania Borit, Timo Szczepanska, Harko Verhagen

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| 53 | How perceived complexity impacts on comfort zones in social decision contexts - Combining gamification and simulation for assessment | Frederick Herget , Benedikt Kleppmann, Petra Ahrweiler, Martin Neumann and Jan Gruca | Full Paper |
| 110 | A hybrid agent-based model to simulate and re-think post-COVID-19 use processes in educational facilities | Davide Simeone , Sara Comai, Silvia Ventura Mastrolembo and Angelo Luigi Camillo Ciribini | Full Paper |
| 16 | Cruising Drivers' Response to Changes in Parking Prices in a Serious Game | Sharon Geva and Eran Ben-Elia | Extended Abstract |
| 32 | Quantum Leaper: A Methodology Journey From a Model in NetLogo to a Game in Unity | Timo Szczepanska , Andreas Angourakis, Shawn Graham and Melania Borit | Extended Abstract |

C: General Track

Chairs: Silvia Leoni

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| 39 | WATERING: An Agent-based Model of Community Water Governance | Kavin Narasimhan , Nigel Gilbert, Corinna Elsenbroich, Roshan Adhikari, Emmanuel Obuobie, Samuel Guug, Nathan Forsythe and Sarah Redicker | Full Paper |
| 25 | SESAMSIM: understanding dynamics in tropical agro-forestry | Paulina Rosero Anazco , Margaret Githinji, Mark R. Kramer and Gertjan Hofstede | Full Paper |
| 86 | Exploring cross-scalar interactions in innovation processes in agricultural social-ecological systems | Udita Sanga and Maja Schlueter | Extended Abstract |
| 21 | Exposure to Traffic-related Air Pollution(Non-exhaust Emission) in Central Seoul using an Agent-based Framework | Hyesop Shin and Mike Bithell | Full Paper |

Parallel sessions VII Thursday 14:30 – 16:30

A: General Track

Chairs: Silvia Leoni

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| 37 | Simulating Delay in Seeking Treatment for Stroke due to COVID-19 Concerns with a Hybrid Agent-Based and Equation-Based Model | Elizabeth Hunter , Bryony McGarry and John Kelleher | Full Paper |
| 81 | CINCH: Agent-Based Modelling of Physical Distancing in Hospital Staff Facilities Using the COM-B Behaviour Change Framework | Nick Gotts , Jared Wilson-Aggarwal, Elise Crayton, Carly Meyer and Ed Manley | Full Paper |
| 89 | Explaining Polarization by Coupling Dynamics of Opinions and Behaviors Under Conformity: A case study of face mask wearing during the COVID-19 pandemic | Tanzhe Tang , Amineh Ghorbani and Caspar Chorus | Extended Abstract |
| 101 | CAFCA in a Pandemic | Corinna Elsenbroich and Harko Verhagen | Extended Abstract |

B: General Track

Chairs: Marcin Czupryna

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| 93 | Purposes of and Principles for ABM's in Policy Development: A Proposal | Alexander Melchior , Frank Dignum and Pinar Yolum | Extended Abstract |
| 1 | Theoretical Sampling and Qualitative Empirical Model Validation | Georg Mueller | Full Paper |
| 68 | SEM2Agent - A Scheme for the Use of Structural Equation Model Data in Agent-Based Models | Lilian Kojan , Laura Burbach, Ziefle Martina and André Calero Valdez | Full Paper |
| 79 | Exploring the effect of external influences on model parameterization | Gary Polhill , Keith Matthews, Jiaqi Ge, Alison Heppenstall and Nick Malleson | Full Paper |

C: General Track

Chairs: Przemysław Szufel

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| 26 | The Large-Scale, Systematic and Iterated Comparison of Agent-Based Policy Models | Bruce Edmonds , Edmund Chattoe-Brown and Mike Bithell | Full Paper |
| 85 | Open, Contingent, Adaptive and Reactive Resilience – using ABM and other tools to facilitate our collective survival in an uncertain world | Bruce Edmonds and Vahid Yazdanpanah | Full Paper |

Social Simulation Conference 2021 Conference Programme

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| 7 | The psychometric house-of-mirrors: the effect of measurement distortions on agent-based models | Dino Carpentras and Michael Quayle | Extended Abstract |
| 24 | Pandemic dynamics determinants in multi-layered urban transportation networks | Mahsa Kazeminooreddinvand, Nykyta Polituchyi, Paweł Prałat, Kinga Siuta and Przemysław Szufel | Extended Abstract |

Parallel sessions VIII Friday 10:30 – 12:30

A: General Track

Chairs: Kavin Narasimhan

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| 12 | Agent-based model of pedestrian movements in the build environment | Michal Dziecielski and Marcin Wozniak | Full Paper |
| 30 | Exploring energy security of Dutch urban energy communities: an exploratory agent-based modelling approach | Javanshir Fouladvand , Deline Verkerk, Igor Nikolic and Amineh Ghorbani | Full Paper |
| 82 | Towards Efficient Context-Sensitive Deliberation | Maarten Jensen , Harko Verhagen, Lois Vanhée and Frank Dignum | Extended Abstract |
| 22 | Decisions, decisions... the complex issue of representing human behavior in social-ecological systems | Beatrice Christa Nöldeke , Etti Winter, Elisée Bahati Ntawuhiganayo and Ulrike Grote | Extended Abstract |

B: High performance computing challenges in social simulation

Chairs: Przemysław Szufel

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| 28 | Simulating Human Movement in a National-Scale Individually-Based Model of Malaria in Burkina Faso | Robert Zupko , Trần Đăng Nguyễn and Maciej Boni | Full Paper |
| 107 | On running massive scale agent based simulation of a virtual city using Julia language | Przemyslaw Szufel | Extended Abstract |
| 36 | Artificial Benchmark for Community Detection algorithm for simulation of social networks | Bogumił Kamiński , Pawel Pralat, François Théberge and Tomasz Olczak | Extended Abstract |

C: General Track

Chairs: Natalie Davis

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| 83 | Better representing the diffusion of innovation through the theory of planned behavior and formal argumentation | Loïc Sadou , Stephane Couture, Rallou Thomopoulos and Patrick Taillandier | Full Paper |
| 52 | Modeling Households' Technology Adoption. A Contribution to the Co-Simulation of a Socio-Technical Multi-Level Energy System | Sebastian Hoffmann and Fabian Adelt | Extended Abstract |

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| 57 | Toward Capturing the Underlying Offensive Mechanisms of Social Manipulation: A Data Model Approach | Amir Ebrahimi Fard and Clara Maathuis | Full Paper |
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Poster sessions I Wednesday, 12:20 12:40

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| I A | 111 | Differences in sociality may heavily influence resource sharing success | Katinka Den Nijs, Victor Vasconcelos and Gertjan Hofstede |
| I B | 60 | Environmental tax reforms: From general equilibrium to agent-based modelling | Franziska Klein, Jeroen van den Bergh, Théo Konc and Joël Foramitti |
| I C | 63 | Decreased enrollment in public schools in Chile: Using Agent-Based Models (ABM) to understand temporal trends | Catalina Canals, Enrique Canessa, Spiro Maroulis, Alejandra Mizala and Sergio Chaigneau |
| I D | 103 | Modeling popularity dynamics on GitHub | Nikolas Zöllner |

Poster sessions II Wednesday, 12:40 13:00

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| II A | 42 | Queueing for Themis: an agent-based model of adjudication in Polish Supreme Court | Jan Majewski |
| II B | 100 | Explaining the relationship between Agency and Communion using Implicit Personality Theories and Connectionist Modelling | Piotr Dragon, Rob Holland, Ewa Szumowska, Małgorzata Kossowska and Daniël H. J. Wigboldus |
| II C | 62 | The effect of heterogeneous distributions of health social norms on pandemics | Daniele Vilone and Giulia Andrighetto |