



The Fifth Conference of The European Social Simulation Association ESSA 2008

CONFERENCE PROGRAMME

Monday September 1st

13.00- 14.00	Registration [Room: <i>Aula Magna</i>]
14:00- 16:00	<p>Tutorials</p> <ul style="list-style-type: none"> • Bridget Rosewell and Paul Ormerod "Agent Based Models and Social Simulation in the Policy Process" [Room: <i>Aula Magna</i>] <i>This tutorial will focus on practical examples of agent based models which are actually being used as part of the decision making process of policy makers. The tutorial will also address key issues in integrating ABMs and social simulation into the policy making process.</i> • László Gulyás "Agent-Based Modelling and Simulation with the Multi-Agent Simulation Suite" Part I" [Room: <i>Sala Biblioteca</i>] <i>The tutorial will introduce the Multi-Agent Simulation Suite (MASS), a novel, integrated simulation environment for agent-based social simulation. MASS was designed with scientific modelers and not professional programmers in mind. Therefore, ease of use and prudent scientific practices were at the focus of the suite's design.</i>
16:00- 16:30	Coffee Break
16:30- 18:30	<p>Tutorials</p> <ul style="list-style-type: none"> • Marco Valente "Laboratory for Simulation Development - LSD: A Platform for Agent-Based Simulations" [Room: <i>Aula Magna</i>] <i>The tutorial consists in a brief introductory part providing a generalized definition of the basic elements composing a simulation model. Then, it will be shown how LSD allows users to transparently adopt the theoretical definition, automatically generating all the technical code necessary for developing, running and analysing a simulation model. A series of examples will show the advantages of the definition proposed and the most relevant features of LSD.</i> • László Gulyás "Agent-Based Modelling and Simulation with the Multi-Agent Simulation Suite" Part II [Room: <i>Sala biblioteca</i>] <i>The tutorial will introduce the Multi-Agent Simulation Suite (MASS), a novel, integrated simulation environment for agent-based social simulation. MASS was designed with scientific modelers and not professional programmers in mind. Therefore, ease of use and prudent scientific practices were at the focus of the suite's design.</i>

Tuesday September 2nd

9:00-9:30	Welcome address by Wander Jager , President of ESSA [Room: Aula Magna]
9:30-10:30	Invited speaker: Peter Hedström "Social Simulation: A Method in Search of a Substance?" [Room: Aula Magna]
10:30-11:00	Coffee Break
11:00-12:30	<p>Plenary session 1 <i>Chair: Wander Jager</i> [Room: Aula Magna]</p> <ul style="list-style-type: none"> • Paul Ormerod and Greg Wiltshire "Social Networks as a Regulatory Tool: The Problem of 'Binge' Drinking in the UK" • Simon Gemkow and Michael Neugart "Referral Hiring, Endogenous Social Networks, and Inequality: An Agent-Based Analysis"
12:30-14:00	Lunch
14:00-16:00	<p>Parallel Session 1 on "Markets&Industrial Dynamics" <i>Chair: Paul Ormerod</i> [Room: Aula Magna]</p> <ul style="list-style-type: none"> • Giovanni Dosi, Luigi Marengo, Corrado Pasquali and Marco Valente "Knowledge, Competition and Appropriability: Is Strong IPR Protection Always Needed for More and Better Innovations?" • Gerard Ballot and Erol Taymaz "Love Thy Neighbor: A Simulation Study on International Technology Spillovers and Growth Regimes" • Mauro Lombardi "The Product Development Process as a Complex, Dynamic and Ordered Global Workspace" • Attila Szabo, Laszlo Gulyas and Istvan Toth "TAXSIM Agent Based Tax Evasion Simulator" <p>Parallel Session 2 on "Opinion Dynamics and Control" <i>Chair: Frédéric Amblard</i> [Room: Sala biblioteca]</p> <ul style="list-style-type: none"> • Floriana Gargiulo, Stefano Lottini and Alberto Mazzoni "The Saturation Threshold of Public Opinion: Are Aggressive Media Campaigns Always Effective?" • Sylvie Huet and Guillaume Deffuant "Bounded Confidence with Rejection: Clusters or Scattered Opinions?" • Thomas Buchsbaum and Hans-Joachim Mosler "Knowledge and Attitude Dynamics in a Two-Persons Discussion Based on a Persuasion Model from Social Psychology" • Yusuke Chamoto, Etsuhiro Nakamura and Tadahiko Murata "The Control of Public Policies by Adaptively Rational Voters"
16:00-16:30	Coffee Break

Parallel Session 3 on “Epistemology&Social Simulation Issues” *Chair: Riccardo Boero* [Room: **Aula Magna**]

- **Alfredo Garro and Wilma Russo** “An Integrated and Iterative Process for Agent-Based Modeling and Simulation”
- **David Chavalarias and Vincent Roger de Gardelle** "Social Simulation of Collective Discovery Processes: the Nobel Game"
- **Matthias Meyer, Iris Lorscheid and Klaus G Troitzsch** “Intellectual Structure of Social Simulation as Reflected in the First Ten Years of JASSS – A Citation and Co-Citation Analysis”

16:30-

18:00

Parallel Session 4 on “Socio-Ecological Systems” *Chair: Giangiacomo Bravo* [Room: **Sala biblioteca**]

- **Gary Polhill, Alessandro Gimona, Ben Davies, Nick Gotts, Davy McCracken, Aurore Catalan, Guillaume Dury and Davy Decorps** “A Model for Exploring Human-Natural System Interactions in the Context of Agricultural Biodiversity”
- *Ole Benjamin Schroeder* “Sustainability of Agricultural Water-Saving Options - Agent-Based Modeling of an Irrigation System in Morocco” **[cancelled]**
- **Hans-Joachim Mosler and Wernher Brucks** “Resource-Use Simulations Using Agents with Psychology-Relevant Internal Models”

Wednesday September 3rd

9:00-10:30	<p>Plenary session 2 <i>Chair: Rosaria Conte</i> [Room: Aula Magna]</p> <ul style="list-style-type: none"> • Edmund Chattoe-Brown “The Social Transmission of Choice: An Exploratory Computer Simulation with Applications to «Hegemonic Discourse»” • Peter S. van Eck, Wander Jager and Peter S.H. Leeflang “Opinion Leaders’ Role in Innovation Diffusion: A Simulation Study”
10:30-11:00	Coffee Break
11:00-12:30	<p>Plenary session 3 <i>Chair: Frédéric Amblard</i> [Room: Aula Magna]</p> <ul style="list-style-type: none"> • Mark Kramer, Roger Costello and John Griffith “Investigating the Force Multiplier Effect of Citizen Event Reporting by Social Simulation” • Edoardo Mollona and Andrea Marcozzi “Self-Emerging Coordination Mechanisms for Knowledge Integration Processes”
12:30-14:00	Lunch
14:00-16:00	<p>Parallel Session 5 on “Markets&Organisations” <i>Chair: Jean-Daniel Kant</i> [Room: Aula Magna]</p> <ul style="list-style-type: none"> • Frank Beckenbach, Maria Daskalakis and Ramon Briegel “Behavioral Foundation and Agent-Based Simulation of Innovation Dynamics” • <u><i>Cristina Boari, Guido Fioretti and Vincenza Odorici</i></u> “<i>Knowledge Development Among Clustered and Isolated Firms</i>” [cancelled] • Lucio Biggiero “Effects of Exploration and Experimentation Capacity on Industry Competitiveness. Results from An Agent-Based Simulation Model” • Richard Harrison “Dominant Coalition Dynamics: The Politics of Organizational Adaptation and Failure” <p>Parallel Session 6 on “Social Conflict I” <i>Chairs: Armando Geller & Nanda Wijermans</i> [Room: Sala biblioteca]</p> <ul style="list-style-type: none"> • Nicholas Geard and Seth Bullock “Movement Recruitment and Social Networks: a Computational Model” • Gordon Bernedo Schneider and Andreas Ernst “Socio-Cognitive Agents Fighting for Scarce Resources” • Open discussion on ESSA Special Interest Group on Social Conflict and Social Simulation
16:00-16:30	Coffee Break

16:30-
18:00

Parallel Session 7 on “Policy I” *Chair: Kathrin Happe* [Room: **Aula Magna**]

- **Scott Moss** “Policy Modelling: Problems and Prospects”
- **Ruud Kempener, Peter Kaufmann and Sigrid Stagl** “Exploring Policy Interventions for Rural Sustainable Development”
- **Friedrich Krebs and Andreas Ernst** “Comparing the Impact of Different Compensation Policies on Collective Land Reclamation”

Parallel Session 8 on “Applications” *Chair: Riccardo Boero* [Room: **Sala biblioteca**]

- **Robert Bowers** “Inheriting a Simple Behavioural Rule versus Inheriting a Neural Network to Implement it Reflects in Sexual Selection”
- **Balázs Bálint and Laszlo Gulyas** “Trafix: A Framework for Agent-Based Traffic Simulations”
- **Pietro Terna** “Agents in Simulation Models, using a Swarm-like Agent Protocol in Python (SLAPP)”

Thursday September 4th

9:30- 10:30	Invited Speaker: David Lane "What is "Social" -- And Can We Simulate It?" [Room: <i>Aula Magna</i>]
10:30- 11:00	Coffee Break
11:00- 12:30	<p>Plenary session 4 <i>Chair: Klaus Troitzsch</i> [Room: <i>Aula Magna</i>]</p> <ul style="list-style-type: none"> • Mohamed Abdou, Nigel Gilbert and Katharine Tyler "Agent-Based Simulation Model for Social and Workplace Segregation" • Marco Campenni, Giulia Andrighetto, Federico Cecconi and Rosaria Conte "Normal = Normative? The Role of Intelligent Agents in Norm Innovation"
12:30- 14:00	Lunch
14:00- 16:00	<p>Parallel Session 9 on "Norms" <i>Chair: Rosaria Conte</i> [Room: <i>Aula Magna</i>]</p> <ul style="list-style-type: none"> • Daniel Villatoro and Jordi Sabater Mir "Mechanisms for Social Norms Support in Virtual Societies" • Ulf Lotzmann, Michael Moehring and Klaus G Troitzsch "Simulating Norm Formation in a Traffic Scenario" • Klaus G Troitzsch "Simulating Collaborative Writing: Software Agents Produce a Wikipedia" • Open discussion on "Immergence and Emergence of Norms (EMIL- EU Research Project)" <p>Parallel Session 10 on "Societal Transitions" <i>Chair: Jos Timmermans</i> [Room: <i>Sala biblioteca</i>]</p> <ul style="list-style-type: none"> • Jans de Haan "Abstractly Modelling Transition Theory" • Gonenc Yucel and Cornelia van Daalen "Exploring Transition Dynamics: A Case-based Modeling Study" • Georg Holtz "Modeling Transitions from the Bottom-Up: The Case of the Upper Guadiana, Spain" • Catherine Chiong Meza and Emile Chappin "Modelling Energy Infrastructures: Where Transition Theory Meets Agent-Based Modelling"
16:00- 16:30	Coffee Break

<p>16:30- 18:00</p>	<p>Parallel Session 11 on “Markets” <i>Chair: Pietro Terna</i> [Room: Aula Magna]</p> <ul style="list-style-type: none"> • Nigel Gilbert, John C. Hawksworth, and Paul A. Swinney “An Agent-Based Model of the UK Housing Market” • Tino Schuette “Investment Adjustments in Product Market Competition” • Tatsuo Yanagita and Tamotsu Onozaki “A Model of Market Structure Dynamics with Boundedly Rational Agents” <hr/> <p>Parallel Session 12 on “Social Conflict II” <i>Chairs: Armando Geller & Nanda Wijermans</i> [Room: Sala biblioteca]</p> <ul style="list-style-type: none"> • Armando Geller and Nanda Wijermans “«Death to . . . !»: On Opinion Dynamics in Conflict-Torn Afghanistan” • Martin Neumann “Legitimacy and Conflict: an Architecture for an Integrated Perspective” • Luminita Stemate and Bernard Moulin “Modeling Crowd Control Using Social Identity Theory - Towards Agent-Based and System Dynamics Simulations”
<p>18:30- 22:30</p>	<p>Conference Dinner</p>

Friday September 5th

9:00-10:30	<p>Plenary session 5 <i>Chair: Nigel Gilbert [Room: Aula Magna]</i></p> <ul style="list-style-type: none"> • Wander Jager and Marco Janssen "Normative and Informative Social Influence on Sales and the Effect of a Discount" • Ilker Yildirim and Pinar Yolum "Hybrid Models for Achieving and Maintaining Collaborative Symbiotic Groups"
10:30-11:00	Coffee Break
11:00-12:30	<p>Parallel session 13 on "Social Networks" <i>Chair: Laszlo Gulyas [Room: Aula Magna]</i></p> <ul style="list-style-type: none"> • Lynne Hamill and Nigel Gilbert "A Simple but More Realistic Agent-based Model of a Social Network" • Fred Amblard and Wander Jager "Emergent social networks resulting from different processes of interaction" • Samuel Thiriot and Jean-Daniel Kant "Generate Country-Scale Networks of Interaction From Scattered Statistics" <p>Parallel Session 14 on "Policy II" <i>Chair: Ruth Meyer [Room: Sala biblioteca]</i></p> <ul style="list-style-type: none"> • Narine Udumyan and Juliette Rouchier "Learning Agents in a Bioeconomic Model of Open-Access Fishery" • Peter Davis "Primary Care in an Ageing Society - Building a microsimulation model" • Herbert Dawid, Simon Gemkow, Philipp Harting and Michael Neugart "Spatial Skill Heterogeneity and Growth: An Agent-based Policy Analysis"
12:30-14:00	Lunch
14:00-16:00	<p>Parallel Session 15 on "Data Driven Models" <i>Chair: Edmund Chattoe-Brown [Room: Aula Magna]</i></p> <ul style="list-style-type: none"> • Samer Hassan, Luis Antunes, Juan Pavon and Nigel Gilbert "Stepping on Earth: A Roadmap for Data-Driven Agent-Based Modelling" • Sandra Gonzales Baylon and Tommy E. Murphy "When Smaller Families Look Contagious: A Spatial Look at the French Fertility Decline Using an Agent-Based Simulation Model" • Yang Chao, Setsuya Kurahashi and Takao Terano "Agent-Based Simulation on Women's Role in a Family Line on Civil Service Examination in Chinese History" • Riccardo Boero, Giangiacomo Bravo, Marco Castellani and Flaminio Squazzoni "Why Bother with What Others Tell You? An Experimental Data-Driven Social Simulation Model" <p>Panel Session on Policy <i>Chair: Scott Moss [Room: Sala biblioteca]</i></p>
16:00-16:30	Coffee Break

16.30-
18:00

Parallel Session 16 on “Empirical Models” *Chair: Riccardo Boero* [Room: **Aula Magna**]

- **Michael Elbers and Andreas Ernst** “A Quasi-Qualitative Model of Farmer Decision Making and its Social and Economic Drivers”
- **Mehdi Saqalli, Bruno Gérard, Charles Biolders and Pierre Defourny** “Benchmarking Humanitarian Support: Empirical Agent-Based Modelling of Development Action Types in Nigerian Villages”
- **Tatiana Filatova, Anne van der Veen and Dawn Parker** “How Do Macroeconomic Outcomes of a Land Market Differ if a Representative Agent is Replaced by a Heterogeneous Agent with Real-World Preferences for Location? An Evidence from the ABM Urban Land Market for a Coastal City”
[cancelled]

Parallel Session 17 on “Epistemology&Methodology” *Chair: Klaus Troitzsch* [Room: **Sala biblioteca**]

- **Francisco J. Miguel Quesada** “Acceptability and Complexity of ABSS: The Social Science Community Dilemma and a Methodology to Test Relevant Theoretical Elements”
- **Andreas Koch** “Analysing Complex Socio-Spatial Agent Systems with Techniques of Network Analysis and Geostatistics”
- **Gabriel Istrate** “Dissecting the Artificial: the Adversarial Scheduling Approach to Validating Game-Theoretic Models and Social Simulations”