



UNIVERSITÀ  
DEGLI STUDI  
FIRENZE

**DISEI**  
DIPARTIMENTO DI SCIENZE  
PER L'ECONOMIA E L'IMPRESA

# 1<sup>st</sup> DISEI-Workshop on Heterogeneity, Evolution and Networks in Economics

16-17 September 2021

University Lecture Hall, piazza S. Marco 4, Florence

## Full Program (all times are CEST)

### Day 1 - 16 September

Greetings and opening remarks	8:45 - 9:00
Session 1: Networks (chair: Gabriele Tedeschi)	9:00 - 10:40
<i>Observed vs expected systemic risk in interbank networks</i> Presenter: Alessandro Ferracci (Sapienza University of Rome)	
<i>Reinforcement learning for interbank credit strategies</i> Presenter: Alessio Brini (Scuola Normale Superiore, Pisa)	
<i>Sectoral market power in global production: a theoretical and observational study</i> Presenter: Lilit Popoyan (University of Neaples Parthenope)	
<i>A network approach to identify financial market efficiency: evidence from a laboratory analysis</i> Presenter: Gabriele Tedeschi (University of Bari)	
Coffe break	10:40 - 11:20
Session 2: Evolutionary dynamics (chair: Frederik Banning)	11:20 - 13:00
<i>Politics of consensus and compromise</i> Presenter: Mauro Sodini (Federico II University of Neaples)	
<i>Reputation and punishment sustain cooperation in the optional public goods game</i> Presenter: Simone Righi (Ca' Foscari University of Venice)	
<i>Market selection and learning under model misspecification</i> Presenter: Giulio Bottazzi (Sant'Anna School of Advanced Studies, Pisa)	
<i>Modelling a firm as a complex adaptive system</i> Presenter: Frederik Banning (Ruhr-Universität Bochum)	
Lunch break	13:00 - 14:30

Session 3: Macroeconomic models I (chair: Alberto Russo)	14:30 - 16:15
<i>Optimal lockdown policies driven by socioeconomic costs</i>	
Presenter: Edgar J. Sánchez Carrera (University of Urbino Carlo Bo)	
<i>Modeling the distributional epidemic-economic effects of the Covid-19 pandemic</i>	
Presenter: Marco Pangallo (Sant'Anna School of Advanced Studies, Pisa)	
<i>Monetary policy and inequality in an AB-SFC macro model</i>	
Presenter: Alberto Russo (Universitat Jaume I, Castellon)	
Coffe break	16:15 - 16:45
Round table: "Teaching Complexity" (chair: Giorgio Ricchiuti)	16:45 - 18:30
Keynote speakers: Domenico Delli Gatti, Alan Kirman	
Social dinner at Antico Ristoro di Cambi, via S. Onofrio 1R	20:00

## Day 2 - 17 September

Session 4: Macroeconomic models II (chair: Simone Alfarano)	9:00 - 10:40
<i>Belief-driven dynamics in a behavioral SEIRD macroeconomic model with sceptics</i>	
Presenter: Christian Proaño (Otto-Friedrich-Universität Bamberg)	
<i>Measure forecast disagreement in a non-stationary environment: the effect of time dependent fundamentals in LTFs experiments</i>	
Presenter: Annarita Colasante (Unitelma Sapienza University of Rome)	
<i>Macroprudential capital buffers in heterogeneous banking networks. Insights from an ABM with liquidity crises</i>	
Presenter: Andrea Gurgone (Otto-Friedrich-Universität Bamberg)	
<i>Granular Firms and Aggregate Fluctuations</i>	
Presenter: Simone Alfarano (Universitat Jaume I, Castellon)	
Coffe break	10:40 - 11:15
Session 3: Empirical methods (chair: Fabrizio Lillo)	11:15 - 13:00
<i>Estimation of heuristic switching in behavioral macroeconomic models</i>	
Presenter: Jiri Kukacka (Charles University, Czechia) <i>Measuring financial cycles in HAMs: an empirical analysis</i>	
Presenter: Filippo Gusella (University of Florence)	
<i>Analysis of bank leverage via dynamical systems and deep neural networks</i>	
Presenter: Fabrizio Lillo (University of Bologna)	
Lunch break	13:00 - 14:30

Session 6: Networks (chair: Frank Schweitzer)

14:30 - 16:10

*Bubble effect induced by recommendation systems in a simple social media model*

Presenter: Franco Bagnoli (University of Florence)

*Score driven generalized fitness model for sparse weighted dynamical networks*

Presenter: Domenico Di Gangi (Scuola Normale Superiore, Pisa)

*Debunking Rumors in Networks*

Presenter: Paolo Pin (University of Siena)

*Heterogeneity in R&D networks: empirics, models, validation*

Presenter: Frank Schweitzer (ETH Zurich)

Coffe break

16:15 - 16:50

Session 7: Evolutionary dynamics (chair: Marcello Galeotti)

16:50 - 18:30

*Local environmental quality and heterogeneity in an OLG agent-based model with network*

Presenter: Andrea Caravaggio (University of Foggia)

*Assortativity in cognition: Learning intuitive cooperation through deliberation*

Presenter: Eugenio Vicario (University of Florence)

*An agent based model of fads*

Presenter: Filippo Pietrini (University of Florence)

*A coevolution model of defensive medicine, litigation and medical malpractice insurance*

Presenter: Marcello Galeotti (University of Florence)