



UNIVERSITÀ DEGLI STUDI DI NAPOLI  
**FEDERICO II**



**CICSE**  
Centro Interuniversitario  
Crescita & Sviluppo Economico  
<http://cicse.ec.unipi.it/>

## International Conference

### **THE ECONOMY AS A SPATIAL COMPLEX SYSTEM (ESCOS 2018) II CICSE WORKSHOP**

**June 21-22, 2018, Naples (Italy)**

The University of Naples Federico II in partnership with CICSE, ISSM-CNR and SIE organises the International Conference “The Economy as a Spatial Complex System” (ESCoS).  
Naples (Italy), June 21-22, 2018.

#### **AIM OF THE CONFERENCE**

The objective of ESCoS 2018 (<http://conference-escos.com/>) is to bring together economists, regional scientists, mathematicians, econometricians, statisticians and social scientists (sociologists, political scientists), who share the view that the economy is a complex system with a spatial dimension, to present and discuss their recent work which may have a theoretical or an empirical perspective or aim to develop advanced mathematical, computational or empirical methods for analysing complex systems (nonlinear dynamics, social network analysis, game theoretical models, agent based models).

#### **CONFERENCE TOPICS**

We welcome papers in a wide range of topics that include, but are not limited, to: Multiregional New Economic Geography models; Regional policies and regional inequalities; Trade agreements and their impact on the economy; Regional development and growth; Spatial econometrics methods; Location choices and factor mobility; Social and industrial interactions; Financial networks; Labour markets and migration; Mathematical and computational methods for the analysis of Complex Spatial Economic Systems.

#### **PUBLISHING OPPORTUNITIES**

A selection of papers presented at the Conference will be considered for publication in special issues of *Spatial Economic Analysis*, *Metroeconomica* and *Italian Economic Journal*. Papers that will be published in these special issues will meet Journals’ standards, and will be refereed and go through the Journals’ usual review process.

### **SCIENTIFIC COMMITTEE**

Gian Italo Bischi, University of Urbino Carlo Bo, Italy; Spiros Bougheas, University of Nottingham, United Kingdom; Salvatore Capasso, CNR-Institute of Studies on Mediterranean Society, Italy; Pasquale Commendatore, University of Naples Federico II, Italy; Laura Gardini, University of Urbino Carlo Bo, Italy; Alan Kirman, University of Aix-Marseille, France; Michael Kopel, University of Graz, Austria; Ingrid Kubin, Vienna; University of Economics and Business, Austria; Tõnu Puu, Umeå University, Sweden; Neri Salvadori, University of Pisa, Italy; Luis Miguel Varela, University of Santiago de Compostela, Spain.

### **LOCAL ORGANISING COMMITTEE**

Roberto Basile, University of L'Aquila, Italy; Pasquale Commendatore, University of Naples Federico II, Italy; Carmelo Petraglia, University of Basilicata, Italy; Francesco Purificato, University of Naples Federico II, Italy; Desirée Quagliarotti, CNR-Institute of Studies on Mediterranean Society, Italy; Maria Rosaria Carli, CNR-Institute of Studies on Mediterranean Society, Italy.

### **CONFERENCE VENUE**

Via Porta di Massa, 3  
80133, Napoli (NA), Italy

## PROGRAMME

### JUNE 21

- ✓ 09:00 Registration  
First floor hall
- ✓ 09:40 – 10:00 OPENING SESSION, Welcoming by:  
  
Prof. Guido Trombetti, former Rector of the University of Naples Federico II  
Prof. Salvatore Capasso, Director of ISSM-CNR  
Prof. Pasquale Commendatore, Conference Chair and CICSE Secretary  
First floor: Room ‘Coviello’
- ✓ 10:00 – 11:00 PLENARY SESSION, Keynote lecture 01 – Chair: Prof. Ingrid Kubin

### PRIME LOCATIONS

#### PROF. KRISTIAN BEHRENS

University of Québec at Montréal (Canada) and National Research University,  
Higher School of Economics (Russia).  
First floor: Room ‘Coviello’

- ✓ 11:00 – 11:30 Coffee break  
Second floor atrium
- ✓ 11.30 – 13:10 CONTRIBUTED SESSIONS: A1 – A2 – A3
- ✓ 13:30 – 14:00 Lunch  
Second floor atrium
- ✓ 14:30 – 16:10 CONTRIBUTED SESSIONS: B1 – B2 – B3
- ✓ 16:10 – 16:40 Coffee break  
Second floor atrium
- ✓ 16:40 – 18:20 CONTRIBUTED SESSIONS: C1 – C2 – C3
- ✓ 20:00 SOCIAL DINNER: HOTEL NAPLES  
C.so Umberto I, 55  
80138 Napoli – Italia

### CONFERENCE VENUE

Via Porta di Massa, 3  
80133, Napoli (NA), Italy

## **PROGRAMME**

### **JUNE 22**

- ✓ 09:20 – 11:00 CONTRIBUTED SESSIONS: D1 – D2 – D3
- ✓ 11:00 – 11:30 Coffee break  
Second floor atrium
- ✓ 11.30 – 13.10 CONTRIBUTED SESSIONS: E1 – E2
- ✓ 13:30 – 14:00 Lunch  
Second floor atrium
- ✓ 14:30 – 16:10 CONTRIBUTED SESSIONS: F1 – F2
- ✓ 16:10 – 16:40 Coffee break  
Second floor atrium
- ✓ 16:40 – 17:00 CLOSING SESSION  
  
Pasquale Commendatore, Conference Chair  
First floor: Room ‘Coviello’

## **CONFERENCE VENUE**

Via Porta di Massa, 3  
80133, Napoli (NA), Italy

## DETAILED CONTRIBUTED SESSIONS

✓ JUNE 21, 11.30 – 13:10 CONTRIBUTED SESSION A

<b>SESSION A1: NEW ECONOMIC GEOGRAPHY (NEG)</b> <b>CHAIR: KRISTIAN BEHRENS</b>	<b>ROOM: 36</b> <b>Second floor</b>
Perpetuating Core-Periphery structures through fiscal transfers	<b>José Rodolfo Morales</b> María Pilar Martínez-García
A Footloose Entrepreneur model with a large number of regions	<b>Varela L. M.</b> V. Gómez-González R. Nieto D. Prieto M. García-Fernández I. Kubin P. Commendatore
Renewable vs Exhaustible natural resources in the Core-Periphery model	<b>María Pilar Martínez-García</b> Caballero M.V. Morales, J.R.
Economic geography meets Hotelling: a home-sweet-home	<b>José Gaspar</b> Sofia B.S.D. Castro João Correia-da-Silva
<b>SESSION A2: INDUSTRIAL ORGANIZATION</b> <b>CHAIR: ANA MARTINS</b>	<b>ROOM: 35</b> <b>Second floor</b>
Income Inequality, Market Size and Firm Conduct: Product Differentiation in the Restaurant Market	<b>Nora Schindler</b> Dieter Pennerstorfer Christoph Weiss Biliana Yontcheva
Dependence of agglomeration effects on the spatial scale and shape: the case of Germany	<b>Rozeta Simonovska</b>
Productive Location and Specialization in Portugal	<b>Ana Martins</b> Cármén Guimarães Diana Barros José Oliveira Celeste Varum
Factors Influencing Performance of Women Entrepreneurs for Small and Medium Enterprises in Albania	<b>Irida Miko</b>
<b>SESSION A3: GLOBALIZATION AND TRADE</b> <b>CHAIR: VALENTINA GULLO</b>	<b>ROOM: 32</b> <b>First floor</b>
Global Production Networks and Trade Policy	<b>Davide Del Prete</b> Valerio Leone Sciabolazza Gianluca Santoni
Trade and FDI in the new millennium: a new puzzle on complements or substitutes	<b>Adelaide Baronchelli</b> Teodora Erika Uberti
Trade agreements and impact on the economy	<b>Esin Cakan</b> Alexandra Proteau
Where does dirty money go? A gravity analysis	<b>Valentina Gullo</b> Pierluigi Montalbano

✓ JUNE 21, 14:30 – 16:10 CONTRIBUTED SESSION B

<b>SESSION B1: SPATIAL ECONOMETRICS 01</b> <b>CHAIR: MARIA DURBAN</b>	<b>ROOM: 36</b> <b>Second Floor</b>
Estimation of $W$ using a GMM algorithm	<b>Jesús Mur</b> Jan Hauke Tomasz Kossowski
sptsar: An R package for the development of semiparametric spatial and spatio-temporal econometric models	<b>Román Mínguez</b> Roberto Basile
Higher-Order Spatial Models: Motivation, Specification, Interpretation	<b>Anja Kukuvec</b> Harald Badinger Peter Egger
The Determinants of CO2 Emissions Differentials with Cross-Country Interaction Effects: A Dynamic Spatial Panel Data Bayesian Model Averaging Approach	<b>Lisa Gianmoena</b> Vicente Rios
<b>SESSION B2: INNOVATION</b> <b>CHAIR: GIAN ITALO BISCHI</b>	<b>ROOM: 32</b> <b>First floor</b>
Technological Diversification in European Regions: The Role of E-skills	<b>Artur Santoalha</b> Fulvio Castellacci Davide Consoli
Finance and Innovation for SMEs across Europe. Does Location Matter?	<b>Francesco Aiello</b> Graziella Bonanno Stefania P.S. Rossi
Innovation and Technology Diffusion for green energy pathways: GB domestic photovoltaic (PV) systems	<b>Virna Talia</b>
Nonparametric Estimation of R&D International Spillovers	<b>Antonio Musolesi</b> Georgios Gioldasis Michel Simioni
<b>SESSION B3: MIGRATION</b> <b>CHAIR: DAVIDE FIASCHI</b>	<b>ROOM: 35</b> <b>Second Floor</b>
Understanding the Impact of Tuition Fees in Foreign Education: the Case of the UK	<b>Marco Delogu</b> Michel Beine Lionel Ragot
The Impact of Immigration on the Internal mobility of Natives and Foreign-born Residents: Evidence from Italy	<b>Roberto Basile</b> Luca De Benedictis María Durban Alessandra Faggian Román Mínguez
Interregional skilled migration and investment in tertiary education. The Italian case	<b>Vecchione Gaetano</b> Domenico Scalera Nifo Annamaria
Selective Migration: Theory and Empirical Evidence for Italy	<b>Davide Fiaschi</b> Angela Parenti Cristina Tealdi

<b>SESSION C1: AGENT BASED MODELS</b> <b>CHAIR: SHIRA FANO</b>	<b>ROOM: 32</b> <b>First floor</b>
An agent-based model of workers' behavior in dual labor markets.	<b>Shira Fano</b>
Transmission of Social Capital: An Agent-Based Analysis.	<b>Lorenzo Zirulia</b> Roberto Patuelli Eveline van Leeuwen
Local policy with multiple regions: an Agent-based Economic Geography analysis	<b>Massimiliano Rizzati</b>
Modelling the evolution of bioclusters: the role of place dependency, path dependency and agency	<b>Ram Kamath</b>
<b>SESSION C2: THE ECONOMIC GEOGRAPHY OF EUROPE</b> <b>CHAIR: SALVATORE CAPASSO</b>	<b>ROOM: 35</b> <b>Second floor</b>
Government and the EU: A Synthetic Control Method Study	<b>Valerio Filoso</b> Salvatore Capasso Vincenzo Alfano
Inequalities, spatial disparities and agglomeration of economic activity in European regions	<b>Rosalba Rombaldoni</b> Edgar J. Sánchez Carrera Riccardo Pozzi
Fiscal rules compliance, poverty and social exclusion in the Eurozone	Rosaria Rita Canale <b>Mariangela Bonasia</b> Salvatore Capasso Marcella d'Uva
The Drivers of Inequality Across European Regions	<b>Angela Parenti</b> Davide Fiaschi Lisa Gianmoena
<b>SESSION C3: COMPLEX DYNAMICS</b> <b>CHAIR: GUIOMAR MARTIN-HERRAN</b>	<b>ROOM: 36</b> <b>Second floor</b>
On Spatial Effects in Cooperative and Non-Cooperative Transboundary Pollution Dynamic Games	<b>Guiomar Martin-Herran</b> Javier de Frutos
Dynamics of a discrete-time fashion cycle model	<b>Irina Sushko</b> Laura Gardini K. Matsuyama
An Evolutionary Model of Production Location Patterns with Industrialized and Developing Countries	<b>Gian Italo Bischi</b> Fabio Lamantia Davide Radi
Spatially extended modelling of market games	<b>Cavalli Fausto</b> Ahmad Naimzada

✓ JUNE 22, 09:20 – 11:00 CONTRIBUTED SESSION D

<b>SESSION D1: INEQUALITY AND GROWTH</b> <b>CHAIR: LAURA GARDINI</b>	<b>ROOM: 32</b> <b>First floor</b>
Quality of institutions, corruption, and growth	<b>Laura Lopez-Gomez</b> Arielle Beyaert José Garcia-Solanes
Growing through chaos in the Matsuyama map via subcritical flip and bistability	Irina Sushko <b>Laura Gardini</b>
Workers' Type Mobility, and Innovation Activities in a Two-Country Model: The Dynamic Game for Growth	<b>Edgar J. Sánchez Carrera</b> Osvaldo Salas Laura Policardo Elvio Accinelli
Capital mobility in a simple growth model with a congestion effect	<b>Francesco Purificato</b>
<b>SESSION D2: SPATIAL ECONOMETRICS 02</b> <b>CHAIR: ROBERTO BASILE</b>	<b>ROOM: 36</b> <b>Second floor</b>
spsur: An R package for specification, estimation and testing of spatial and spatio-temporal SUR econometric models	<b>Román Mínguez</b> Fernando López Hernandez Jesús Mur
Total factor logistics productivity: a spatial approach to resilience of Italian regions	<b>Lucio Siviero</b> Salvatore Scuderi
Growth in Russian regions: different patterns for poor, middle and rich groups	<b>Demidova Olga</b>
Two-stages or just one? Finite sample properties of spatio-temporal models with strong and weak cross-sectional dependence	<b>Carlo Ciccarelli</b> Federico Belotti
<b>SESSION D3: PRICE DETERMINATION</b> <b>IN A SPATIAL CONTEXT</b> <b>CHAIR: FABIO LAMANTIA</b>	<b>ROOM: 35</b> <b>Second floor</b>
Do local companies herd? The evidence from Connecticut Region	<b>Esin Cakan</b> Diane Soto Colin McFarlane
An extended Day/Huang model with communicating (beta-) traders	<b>Jochen Jungeilges</b> <b>Daniela Rroshi</b> Dieter Pennerstorfer
Consumer Information and the Speed of Price Transmission	Jens-Peter Loyy Biliana Yontchevaz Christoph Weisz
Shooting down the price: evidence from mafia homicides and housing market volatility	<b>Maggio Giuseppe</b> Battisti Michele Lavezzi Andrea Mario Bernardo Giovanni



✓ JUNE 22, 11:30 – 13:10 CONTRIBUTED SESSION E

<b>SESSION E1: MULTIREGIONAL NEG MODELLING</b> <b>CHAIR: INGRID KUBIN</b>	<b>ROOM: 36</b> Second floor
The Footloose Entrepreneur model with a finite number of equidistant regions	<b>José Gaspar</b> Sofia B.S.D. Castro João Correia-da-Silva
Spatial period doubling and invariant patterns in symmetric spatial platforms	<b>Mikihisa Onda</b> Kiyohiro Ikeda Yuki Takayama
The New Economic Geography of the Brexit	<b>Ingrid Kubin</b> Pasquale Commendatore Iryna Sushko
RHOMOLO Dynamic Spatial General Equilibrium Model for EU Regions and Sectors	<b>Andrea Conte</b>
<b>SESSION E2: MIGRATION AND TRADE IMBALANCES</b> <b>CHAIR: CARMELO PETRAGLIA</b>	<b>ROOM: 35</b> Second Floor
Relative poverty as a determinant of interregional migration: the case of Italian regions	<b>Oreste Napolitano</b> Mariangela Bonasia Salvatore Capasso
The Economic Impact of Tariffs, Trade Diversion and Import Substitution within the World Input-Output Network: the case of Brexit	<b>Raffaele Giammetti</b>
The long-term effects of migration on Italian international exposure	Petraglia Carmelo <b>Vecchione Gaetano</b>
The dynamic effects of fiscal reforms and tax competition on tax compliance and migration	<b>Fabio Lamantia</b> Mario Pezzino

✓ JUNE 22, 14:30 – 16:10 CONTRIBUTED SESSION F

<b>SESSION F1: URBAN ECONOMICS</b>		<b>ROOM: 35</b>
<b>CHAIR: ROSSER JOHN BARKLEY</b>		<b>Second floor</b>
31	Cities as Drivers of Social Mobility	Umut Turk <b>Alessandra Michelangeli</b>
43	Higher education supply, local competition and economic performance: evidence from Italy	<b>Paolo Ghinetti</b> Elena Cottini Simone Moriconi
13	Does neighbour's grass matter? Exploring spatial dependent heterogeneity in technical efficiency of Italian hospitals	<b>Paolo Di Caro</b> Marina Cavalieri Calogero Guccio Domenico Lisi
54	Entropy and Urban and Regional Structural Patterns.	<b>Rosser John Barkley</b>
<b>SESSION F2: ECONOMIC POLICY AND GEOGRAPHY</b>		<b>ROOM: 36</b>
<b>CHAIR: JAVIER DE FRUTOS</b>		<b>Second floor</b>
	Building a Graph of the Real and Hidden Wealth of a Country	<b>Ignazio Gonzales</b>
	Agglomeration and 'Territorial Authority Scale': evidence from a decentralization episode in Italy	Del Gatto Massimo <b>Ercolano Salvatore</b> Petraglia Carmelo
	Residential Segregation: The Role of Inequality and Housing Subsidies	<b>Davide Radi</b> Philipp Harting
	Does agricultural subsidies foster Italian southern farms? A Spatial Quantile Regression Approach	<b>Daniele di Gennaro</b> Marusca De Castris

## MAP

### CONFERENCE VENUE: UNIVERSITY OF NAPLES FEDERICO II

Department of Law

Via Porta di Massa, 3 – 80133 – Napoli (NA), Italy

### SOCIAL DINNER:

HOTEL NAPLES

C.so Umberto I, 55 - 80138 Napoli – Italia

