



Preliminary Programme



IAERE

Italian Association of Environmental
and Resource Economists

Sixth Annual Conference

15th-16th February 2018, Turin

University of Turin, Department of Economics and Statistics "Cognetti de Martiis"



With the support of



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Maria Franco Villoria (University of Torino)
Mariangela Zoli (University of Rome Tor Vergata)

Preliminary Programme

FEBRUARY 15th 2018 – THURSDAY

8:30 - 9:00 **REGISTRATIONS**

9:00 - 9:30 **OPENING CEREMONY** Room Aula Magna
Chair: Silvana DALMAZZONE (University of Torino)
Gianmaria AJANI (Rector - University of Torino)
Federico REVELLI (Head - Department of Economics and Statistics, University of Torino)
Roberto PALEA (Board member - Centro Studi sul Federalismo)
Roberto RONCO (Director - DG Environment and Land Governance and Protection,
Piedmont Region)
Francesco LA CAMERA (Director General - Italian Ministry of Environment, Land and Sea
(TBC)
Simone BORGHESI (IAERE President, University of Siena)

9:30 - 10:30 **KEYNOTE LECTURE** Room Aula Magna
Maja SCHLÜTER, Stockholm Resilience Center, Stockholm University,
Sweden
**Understanding and Managing Change in a Complex and
Interdependent World: A Modelling Approach**
Chair: Giangiacomo BRAVO (Linnaeus University)

10:30 - 11:00 **COFFEE BREAK** (Campus Cafè)

11:00 - 13:00 **PARALLEL SESSIONS 1**

11:00 - 13:00 **WATER USES AND POLICIES** Room A1
Chair: Carlos Dionisio PEREZ-BLANCO (Fondazione Euro-Mediterranean
Centre on Climate Change and Ca' Foscari University of Venice)

A Coupled Positive Multi-Attribute Utility Programming and Computable General Equilibrium Model to Assess the Micro-macro Feedback Links of Agricultural Water Management
Gabriele STANDARDI (Fondazione Euro-Mediterranean Centre on Climate Change and Ca' Foscari University of Venice)
Co-author(s): Carlos Dionisio Perez-Blanco, Ramiro Parrado and Carlos Gutierrez-Martin

Global Economic and Food Security Impacts of Demand-driven Water Scarcity

Victor NECHIFOR (UCL Institute for Sustainable Resources)

Drought and Extreme Heat Effects on Wheat Yields: Statistical Crop Modelling at the Farm Scale in Puglia and the Po River Basin

David GARCÍA-LEÓN (Fondazione Eni Enrico Mattei)

Co-author(s): Raúl López, Andrea Toreti and Matteo Zampieri

Necessity is the Mother of Invention: Climatic shocks and the Emergence of the Reluctant Entrepreneur

Salvatore DI FALCO (University of Geneva)

Co-author(s): Giacomo De Giorgi and Tesfamichael Worsen

Evaluating Impacts of Alternative Adaptation Strategies on the Dynamics of Human-Water Systems: A Methodological Framework for an Integrated-Modular Eco-Hydrologic and Multi-Attribute Revealed Preference Model

Arthur HRAST ESSENFELDER (Fondazione Euro-Mediterranean Centre on Climate Change and Ca' Foscari University of Venice)

Co-author(s): Carlos Dionisio Perez-Blanco

11:00 - 13:00 **CLIMATE CHANGE: SOCIO-ECONOMIC IMPACTS**
Chair: Silvana DALMAZZONE (University of Torino)

Room A2
Thu. 15 Feb 2018

Adaptation to Negative Rainfall Shocks: Evidence from Ethiopia

Avichal MAHAJAN (Institute of Economics and Econometrics, University of Geneva)

Co-author(s): Salvatore Di Falco

Climate Change, Agriculture and Migration: Is There a Causal Relationship?

Chiara FALCO (University of Milan)

Co-author(s): Marzio Galeotti and Alessandro Olper

Distribution of Global Temperature Effects on Downscaled Economic Activity

Shouro DASGUPTA (Fondazione Euro-Mediterranean Center on Climate Change and University Ca' Foscari of Venice)

Co-author(s): Francesco Bosello, Enrica De Cian and Malcolm Mistry

Crop Diversity as a Strategy for Adaptation to Climate Change: Insights from Uganda Panel Data

Chiara ANTONELLI (University of Rome Tor Vergata)

Co-author(s): Manuela Coromaldi and Giacomo Pallante

Climate Change, Armed Conflicts and Socio-Economic Conditions: A Georeferenced Map of Africa

Federica CAPPELLI (Roma Tre University)

Co-author(s): Valeria Costantini, Keti Lelo, Elena Paglialonga and Giorgia Sforna

11:00 - 13:00 **ENERGY POLICIES I**
Chair: Ivan FAIELLA (Bank of Italy)

Room B1
Thu. 15 Feb 2018

Energy Abundance, Trade and the Geographical Distribution of the Manufacturing Sector in China

Tong ZHU (European University Institute)

Co-author(s): Robert Elliott and Puyang Sun

Why is it so Hard to Stop Using Oil? Fossil Fuel Discoveries and International Trade

Chiara RAVETTI (University of Oxford)

Finding Itself in the Post-Paris World: Russia in the New Global Energy Landscape

Igor MAKAROV (National Research University - Higher School of Economics)

Co-author(s): Sergey Paltsev and Y.-H. Henry Chen

Polluter Pays Principle implementation in the Italian electricity sector. A comparison of environmental taxes with the air emissions external costs of thermal power plants

Andrea MOLOCCHI (Italian Ministry of Environment, Land and Sea - TA Sogesid S.p.A.)

Co-author(s): Emanuela Recchini and Angelica Tudini

Energy Costs and Competitiveness in Europe

Ivan FAIELLA (Bank of Italy)

Co-author(s): Alessandro Mistretta

11:00 - 13:00 **R&D and TECHNOLOGICAL CHANGE**
Chair: Massimiliano MAZZANTI (University of Ferrara and SEEDS)

Room B2
Thu. 15 Feb 2018

The Consequences of Income Diversification on Natural Resources in a Dynamic Two-sector Small Economy

Gala SIPOS (University of Bern)

Going Green: Environmental Regulation and Collaboration Networks

Fabrizio FUSILLO (University of Torino)

Co-author(s): Francesco Quatraro and Stefano Usai

Should Environmental R&D be Supported More Than Other R&D Projects?

Rolf GOLOMBEK (Frisch Centre)

Co-author(s): Mads Greker and Michael Hoel

A DDF Bootstrapped Framework for Estimating Eco-efficiency: The Influence of the Financial Structure in the Italian Polluting Industries

Alessandro Manello (IRCrES-CNR)

Co-author(s): Greta Falavigna

Are Green Technologies Really Different from Non-green Ones? An Analysis of Radicalness, Complexity and Pervasiveness

Nicolò BARBIERI (University of Ferrara)

Co-author(s): Alberto Marzucchi and Ugo Rizzo

13:00 - 14:30 **LUNCH** (Qubì, Via Parma 75)

14:30 - 15:30 **IAERE General Assembly of Members** Room Aula Magna
Thu. 15 Feb 2018

15:30 - 17:30 **PARALLEL SESSIONS 2** Thu. 15 Feb 2018

15:30 - 17:30 **BEHAVIOUR AND PREFERENCES TOWARDS THE ENVIRONMENT** Room A1
Thu. 15 Feb 2018
Chair: Mariangela ZOLI (University of Rome Tor Vergata)

Environmental Concerns and Household Waste Recycling

Maria Carmela APRILE (Parthenope University)

Co-author(s): Damiano Fiorillo

The Energy Trap

Alessandro SPIGANTI (University of Edinburgh)

Co-author(s): David Comerford

Policy Awareness and the Impact of Fiscal Policies: Evidence from Vehicle Registration Taxes in Switzerland

Davide CERRUTI (ETH Zürich)

Co-author(s): Claudio Daminato and Massimo Filippini

Farm Size and Farmers' Environmental-friendly Practices

Alessandro CORSI (University of Torino)

Co-author(s): Silvia Novelli

Dietary Changes for a Better Environment? A Quali-quantitative Policy Assessment

Andrea BIGANO (Fondazione Euro-Mediterranean Centre on Climate Change, Ca' Foscari University of Venice and Far East Federal University Vladivostok)

Co-author(s): Francesco Bosello and Jacopo Zotti

15:30 - 17:30 **LAND USE AND ENVIRONMENTAL DEGRADATION** Room A2
Thu. 15 Feb 2018
Chair: Roberto RONCO (DG Environment and Land Governance and Protection, Piedmont Region)

Urban Morphology and PM10 Concentration in European Cities: An Empirical Assessment

Stefano PAREGLIO (Fondazione Eni Enrico Mattei)

Co-author(s): Gianni Guastella and Federica Cappelli

Land Fragmentation, land Consolidation and Agricultural Productivity: Evidence from France

Jacint ENRICH MOYA (Toulouse School of Economics)

Co-author(s): Sylvain Chabé-Ferret

Statistiche ufficiali sui prelievi di risorse minerali. Lo sviluppo di analisi territoriali e indicatori di pressione ambientale per l'Italia

Donatella VIGNANI (ISTAT Italian National Institute of Statistics)

Land Use and Pollution in a Two-sector Evolutionary Model

Gianluca IANNUCCI (University of Florence)

Co-author(s): Angelo Antoci and Simone Borghesi

Stolen Land! Assessing the Impact of Soil Loss in Malawi

Alessandro PALMA (CEIS, University of Roma Tor Vergata)

Co-author(s): Solomon Asfaw, Carlo Orecchia, Giacomo Pallante and Alessandro Palma

15:30 - 17:30 **EXPERIMENTAL ECONOMICS AND ENVIRONMENTAL VALUATION**
Chair: Elisabetta STRAZZERA (University of Cagliari)

Room B1
Thu. 15 Feb 2018

Social Structure and Social Preferences in a Lab-in-the-Field Common Pool Resource Experiment

Filippo Maria D'ARCANGELO (Toulouse School of Economics)

Co-author(s): George Joseph, Gautam Gupta, Barry Sopher and Quentin Wodon

Does Risk Communication Really Decrease Cooperation in Climate Change Mitigation?

Mike FARJAM (Linnaeus University)

Co-author(s): Olexandr Nikolaychuk and Giangiacomo Bravo

If Future Generations Had a Say: Experimental Evidence on Resource Sharing with Veto Power of a Future Generation

Stephan WOLF (University of Freiburg)

Co-author(s): Katharina Wagner

Nudging and Environmental Corporate Responsibility: A Natural Experiment

Francesco SALUSTRI (University of Rome Tor Vergata)

Co-author(s): Leonardo Becchetti and Pasquale Scaramozzino

Evaluation of Ecosystem Services in Italy: a Choice Experiment study with Posterior Analysis of Conditional Preference Distributions

Elisabetta STRAZZERA (University of Cagliari)

Co-author(s): Vania Statzu and Daniela Meleddu

15:30 - 17:30 **RISK AND EXTREME WEATHER EVENTS**
Chair: Marcella VERONESI (University of Verona)

Room B2
Thu. 15 Feb 2018

Value of Statistical Life connected with seismic risk. Empirical evidence from Italy

Andrea RAMPA (Research Institute on Sustainable Economic Growth - IRCrES-CNR, Milan)

Co-author(s): Nicolò Barbieri, Massimiliano Mazzanti and Anna Montini

Natural Disaster Risk and the Distributional Dynamics of Damages: a Global Analysis

Matteo CORONESE (Scuola Superiore Sant'Anna)

Co-author(s): Francesco Lamperti, Francesca Chiaromonte and Andrea Roventini

Building the 'Disaster Risk Assessment Index'

Marco MODICA (CNR - IRCRES)

Co-author(s): Giovanni Marin, Susanna Paleari, Roberto Zoboli

Urban Sustainability: Investigating the Environmental Impact of Cities Across European Countries

Elisabetta MARZANO and Antonella D'AGOSTINO (University of Naples Parthenope)

Co-author(s): Bruno Chiarini and Andrea Regoli

Extreme Weather Events, Mortality, and Energy Prices: A Natural Experiment from Japan

Marcella VERONESI (University of Verona)

Co-author(s): Shinsuke Uchida

18:00 - 20:00 **SOCIAL EVENT – Baroque Turin Guided Tour**

20:00 **SOCIAL DINNER – Ristorante Carlina**
Piazza Carlo Emanuele II (Carlina) 15, 10123 Torino

FEBRUARY 16th 2017 – FRIDAY

8:30 - 9:00 **REGISTRATIONS**

9:00 - 11:00 **PARALLEL SESSIONS 3**

9:00 - 11:00 **SPECIAL SESSION AIEAA** Room A1
Sustainable Land Management: Between Production and Conservation
Chair: Mara THIENE (University of Padova)

Assessing Common Agricultural Policy Impacts on High Nature Value Farming System

Fabio BARTOLINI (University of Pisa)

Co-author(s): Davide Longhitano, Andrea Povellato.

How Much the Citizens of Milan Value the Ecological Benefits Provided by the Periurban Agriculture?

Paolo SCKOKAI (Catholic University, Milan)

Co-author(s): Linda Arata, Gianni Guastella, Stefano Pareglio, Riccardo Scarpa

Measuring Impacts and Adaptations to Climate Change: A Structural Ricardian Analysis of Irrigation Decisions in Italy

Martina BOZZOLA (ETH Zurich and Queen's University Belfast)

Co-author(s): Emanuele Massetti and Robert Mendelsohn

Agri-environmental Policies and the Formation of Coalitions on Pollination Management

Davide VIAGGI (University of Bologna)

Co-author(s): Matteo Zavalloni and Meri Raggi

Congestion Management in Protected Areas: Accounting for Respondents' Inattention and Preference Heterogeneity in Stated Choice Data

Mara THIENE (University of Padova)

Co-author(s): Cristiano Franceschinis and Riccardo Scarpa

9:00 - 11:00

ENERGY POLICIES II

Chair: Sergio VERGALLI (University of Brescia)

Room A2

Fri. 16 Feb 2018

Playing on Two Markets: Investment Evaluation of a Biogas - Biomethane Power Plant

Marina BERTOLINI (University of Padova)

Exploring Pathways of Solar PV Learning in Integrated Assessment Models

Samuel CARRARA (FEEM and University of California, Berkeley)

Co-author(s): Michela Bevione, Harmen-Sytze de Boer, David Gernaat, Silvana Mima, Robert C. Pietzcker and Massimo Tavoni

The Diesel Fuel Excise Duty Gap as Compared to Gasoline: An Environmental Coherence Assessment through the External Costs Approach

Cecilia CAMPOREALE (Italian Ministry of Environment, Land and Sea - TA Sogesid S.p.A.)

Co-author(s): Luca Grassi and Andrea Molocchi

Where to Deploy Marine Renewable Energy in Portugal? Contributions to Marine Spatial Planning through Economic Modeling

Maria CUNHA-E-SÁ (Universidade Nova de Lisboa)

Co-author(s): Ana Faria Lopes

Energy Intensity, Environmental Policies and Green Patents: Checking Heterogeneous Country Effects in the EU

Saptorshee Kanto CHAKRABORTY (University of Ferrara)

9:00 - 11:00

CLIMATE CHANGE: POLICY INSTRUMENTS

Chair: Alberto MAJOCCHI (University of Pavia and Centre for Studies on Federalism)

Room B1

Fri. 16 Feb 2018

The Effect of Climate Policies on Italian Employment: A Panel VAR Approach

Alessandro GIOVANNELLI (Italian Ministry of Environment, Land and Sea - TA Sogesid S.p.A.)

Co-author(s): Carlo Orecchia and Giacomo Pallante

An Adjustable Carbon Tax on Gasoline

Stefano VERDE (FSR Climate - European University Institute)

Co-author(s): Valeria di Cosmo

The New EU 2030 Climate and Energy Framework: A Detailed Sectoral Analysis of the Consequences of ETS and non-ETS Emissions Market Segmentation

Carlo ORECCHIA (Italian Ministry of Environment, Land and Sea - TA Sogesid S.p.A.)
Co-author(s): Alessandro Giovannelli and Giacomo Pallante

The Effect of Environmental Regulation on Firm Productivity

Giulia PAVAN (TSE)
Co-author(s): Sara Calligaris, Filippo D'Arcangelo

International Transmission of the Business Cycle and Environmental Policy

Francesca DILUIISO (University of Rome Tor Vergata)
Co-author(s): Barbara Annicchiarico

9:00 - 11:00	CIRCULAR ECONOMY AND INNOVATION Chair: Alessio D'AMATO (University of Rome Tor Vergata)	Room B2 Fri. 16 Feb 2018
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Does Host Market Regulation Induce Cross Border Environmental Innovation?

Giovanni MARIN (University of Urbino 'Carlo Bo')
Co-author(s): Antonello Zanfei

Circular Economy as Business Model, Circularity as Environmental Policy Target

Jacopo ZOTTI (University of Trieste)
Co-author(s): Andrea BIGANO

On the Adoption of Circular Economy Practices at the Firm Level: Does Their Financing Make a Difference?

Claudia GHISSETTI (Joint Research Centre - EC)
Co-author(s): Sandro Montresor

The New Italian Framework for Circular Economy: Background, Process, Indicators and Measurement Challenges

Fabio EBOLI (Italian Ministry of Environment, Land and Sea - TA Sogesid S.p.A.)

Resource Efficiency, Environmental Policy and Eco-Innovations for a Circular Economy: Evidence from EU Firms

Alessio D'AMATO (University of Rome Tor Vergata)
Co-author(s): Giulio Cainelli and Massimiliano Mazzanti

9:00 - 11:00	NATURAL RESOURCES AND ECOSYSTEM SERVICES Chair: Aldo RAVAZZI DOUVAN (Italian Ministry of Environment, Land and Sea – DG Sustainable Development & International Affairs – TA Sogesid – Luiss, Rome)	Room E5 Fri. 16 Feb 2018
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Soil Erosion in the European Union: From Direct Costs to Macro-economic Effects

Francesco BOSELLO (Fondazione Euro-Mediterranean Centre on Climate Change and University of Milan)
Co-author(s): Panagos Panos, Gabriele Standardi, Pasquale Borrelli, Emanuele Lugato and Luca Montanarella

Implementing a System for Ecosystem Services Accounting in EU: The Role of Complementary Supply and Use Tables

Alessandra LA NOTTE (European Commission Joint Research Centre)

Co-author(s): Sara Vallecillo Alexandra and Marques Joachim Maews

Assessing Governance Strategies for Ecosystem Services: A Case Study of the Trasimeno Lake (Perugia, Umbria, Italy)

Greti LUCARONI (Italian Ministry of Environment, Land and Sea)

Integrating Economics and Critical Depensation in the Design of Fisheries' Policies: Defining Harvest Control Rules with Age Structured Bio Economic Model

Renato ROSA (Nova School of Business and Economics, UNL)

Co-author(s): Tiago Costa and Rui Mota

Wildlife Conflicts: Wolves vs. Moose

Anders Odd SKONHOFT (Norwegian University of Science and Technology)

11:00 - 11:30 **COFFEE BREAK** (Campus Cafè)

11:30 - 12:30 **POSTER SESSION**

An Environmental Kuznets Curve for Water Footprint: Evidence from a Worldwide Panel Dataset

Marco BAGLIANI (University of Turin)

Co-author(s): Benedetta Falsetti, Vito Frontuto, Rosalba Ignaccolo, Francesco Laio and Emanuele Vicendone

Environmental Policy and International Trade: New Evidence from Structural Gravity

Laura BONACORSI (Fondazione Euro-Mediterranean Center on Climate Change and Fondazione Eni Enrico Mattei)

Co-author(s): Elena Verdolini

Economic Growth and the Forest Development Path: A Re-assessment of the Environmental Kuznets Curve for Deforestation

Nicola CARAVAGGIO (Roma Tre University)

Visual Impact of Agricultural Sheds in Rural Landscape: The Economic Value of Different Mitigation Solutions

Vito FRONTUTO (University of Turin)

Co-author(s): Alessandro Corsi, Paola Gullino, Silvia Novelli and Federica Larcher

Economic Valuation of Ecosystem Services Provided by Green Urban Spaces: A Review and Meta-analysis

Gianni GUASTELLA (Fondazione Eni Enrico Mattei)

Co-author(s): Stefano Pareglio and Riccardo Scarpa

Consumers' Preferences toward Sustainable Clothes: A Survey among Italian Millennials

Francesco MARANGON (University of Udine)

Co-author(s): Stefania Troiano, Federico Nassivera and Matteo Carzedda

Assessing Transition Risk at Microeconomic Level with a Stress Test Methodology

Alessandro RAVINA (Université Paris 1 Panthéon-Sorbonne)

Ready for a Carbon Tax? An Explorative Analysis of University Students' Preferences

Lucia ROTARIS (University of Trieste)

Seeing Red, but Acting Green: Experimental Evidence on the Role of Charity Videos on Charitable Donations and Affect

Ganga SHREEDHAR (London School of Economics and Political Science)

Co-author(s): Susana Mourato

Simulation of Dynamics of Retailers' Freight Provision through an Agent-based Model: The Case of the City of Turin

Elena VALLINO (University of Torino)

Co-author(s): Elena Beretta and Elena Maggi

How inequality and institutional setting impact on eco-innovation?

Emy ZECCA (Sapienza University of Rome)

Co-author(s): Francesco Nicolli

12:30 - 14:00 **LUNCH** (Qubì, via Parma 75)

14:00 - 15:00	<p>KEYNOTE LECTURE Matti LISKI, Department of Economics, Aalto University, Finland Carbon Leakage: A Mechanism Design Approach Chair: Simone BORGHESI (IAERE President and University of Siena)</p>	<p>Room Aula Magna Fri. 16 Feb 2018</p>
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15:00 – 15:30	<p>AWARD and CLOSING CEREMONY</p>	<p>Room Aula Magna Fri. 16 Feb 2018</p>
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