



20th Coalition Theory Network Workshop

Island of San Servolo, Venice – Italy

March 19th – 20th, 2015

Agenda

DAY 1: Thursday 19 th March		DAY 2: Friday 20 th March
8.00 – 8.45	Registration	
8.45 – 9.00	Welcome Address	
9.00 – 10.00	Plenary Session 1	Plenary Session 3
10.00 – 10.30	Coffee break	Coffee break
10.30 – 12.30	Parallel Sessions A1 – A2	Parallel Sessions D1 – D2
12.30 – 13.30	Lunch	Lunch
13.30 – 15.00	Parallel Sessions B1 – B2	Parallel Sessions E1 – E2
15.00 – 15.30	Coffee break	Coffee break
15.30 – 17.00	Parallel Sessions C1 – C2	Parallel Sessions F1 – F2
17.00 – 18.00	Plenary Session 2	Concluding Plenary Session
18.00 – 19.00	CTN Board Meeting	
19.00 – 23.00	Social Dinner	

In parallel sessions the first speaker will be asked to act as chair.

Day 1: Thursday 19th March 2015

8.00 – 8.45 **Registration**

8.45 – 9.00 **WELCOME ADDRESS**

Prof. Carlo CARRARO, Fondazione Eni Enrico Mattei and Ca' Foscari University of Venice, Italy

9.00 – 10.00 **PLENARY SESSION 1**

On Cournot oligopoly with network effects

Prof. Rabah AMIR, Univeristy of Iowa, United States of America

10.00 – 10.30 *Coffee break*

10.30 – 12.30 **Parallel Sessions A1 – A2**

PARALLEL SESSION A1 – MARKET GAMES 1

Financial linkages and portfolio choice

Christian GHIGLINO, University of Essex, United Kingdom

Production networks and general (market) equilibrium

Kenan HUREMOVIC, Aix-Marseille School of Economics and GREQAM, France

Knowledge and pricing in intermediated markets

David MINARSCH, University of Cambridge, United Kingdom

History dependence in networks of close relationships: theory, and evidence from cohort attachment in employee entrepreneurship

Ayal CHEN-ZION, University of California, San Diego, United States of America

PARALLEL SESSION A2 – ENVIRONMENTAL COALITIONS

Internal vs. core coalitional stability in the environmental externality game: a reconciliation

Henry TULKENS, CORE – Université Catholique de Louvain, Belgium

International environmental agreements with asymmetric countries: climate clubs vs. global cooperation

Achim HAGEN, Carl von Ossietzky University Oldenburg, Germany

Climate change adaptation and international agreements on mitigation with heterogeneous countries

Hongxiu LI, University of Waterloo, Canada

The effect of climate thresholds on coalition formation: an application of numerical models

Johannes EMMERLING, Fondazione Eni Enrico Mattei and Euro-Mediterranean Center on Climate Change, Italy

12.30 – 13.30 *Lunch*

13.30 – 15.00 **Parallel Sessions B1 – B2**

PARALLEL SESSION B1 – MATCHING 1

Equilibrium and matching under price controls

Jean-Jacques HERINGS, Maastricht University, The Netherlands

Pareto optimal, strategy proof, and non-bossy matching mechanisms

Sophie BADE, Royal Holloway College, University of London,
Max Planck Institute for Research on Collective Goods, United Kingdom

Stability in matching with couples: maximal domain and paths

Benjamin TELLO, Universitat Autònoma de Barcelona, Spain

PARALLEL SESSION B2 – NETWORK GAMES 1

The farsighted stable set

Rajiv VOHRA, Brown University, United States of America

A simple model of cascades in networks

Alexander TEYTELBOYM, INET - University of Oxford, United Kingdom

Expectation formation rules and the core of partition function games

Anne VAN DEN NOUWELAND, University of Oregon, United States of America

15.00 - 15.30 *Coffee break*

15.30 - 17.00 **Parallel Sessions C1 - C2**

PARALLEL SESSION C1 – MATCHING 2

Constitutions and social networks

Ana MAULEON, CEREC - Saint-Louis University –Brussels and CORE - Université Catholique de Louvain, Belgium

Egalitarian random mechanisms with ordinal input

Anna BOGOMOLNAIA, University of Glasgow, United Kingdom

An allocation rule for hypernetwork games

Jean-François CAULIER, CES - Université Paris 1 Panthéon-Sorbonne, France

PARALLEL SESSION C2 – MARKET GAMES 2

Online advertising world as a network: identifying markets and competition

Sergei IZMALKOV, CSDSI - New Economic School, Russia

Social structure, markets and inequality

Julien GAGNON, University of Cambridge, United Kingdom

Optimal productivity growth in networks

Vladyslav NORA, Nazarbayev University, Kazakhstan

17.00 - 18.00 **PLENARY SESSION 2**

Experimental games on networks: underpinnings of behavior and equilibrium selection

Prof. Matthias SUTTER, University of Cologne, Germany and University of Innsbruck, Austria

18.00 - 19.00 CTN Board meeting

19.00 - 23.00 *Social Dinner – Sala Grecale in the Venice International University Campus*

DAY 2: FRIDAY 20th MARCH 2015

9.00 – 10.00 **PLENARY SESSION 3**

Groups in Conflict

Prof. Debraj RAY, New York University, United States of America

10.00 – 10.30 *Coffee break*

10.30 – 12.30 **Parallel Sessions D1 – D2**

PARALLEL SESSION D1 – CENTRALITY, TRUST AND COOPERATION IN NETWORKS

Centrality

Francis BLOCH, CES – Université Paris 1 Panthéon-Sorbonne, France

Directed trust and reciprocity in a real-life social network: an experimental investigation

Jonathan YEO, University of Warwick, United Kingdom

Who can you trust? Reputation and cooperation in networks

Maia KING, Queen Mary, University of London, United Kingdom

Own experience bias, prejudice and discrimination

Myrna WOODERS, Vanderbilt University, United States of America

PARALLEL SESSION D2 – PUBLIC GOODS PROVISION

Coalitional provision of global public goods with free-riders

Hideo KONISHI, Boston College, United States of America

Networks of many public goods with non-linear best replies

Lionel RICHEFORT, LEMNA – Université de Nantes, France

On the provision of a pure public good

Efthymios ATHANASIOU, CSDSI – New Economic School, Russia

Large vs. continuum assignment economies

Antonio MIRALLES, Universitat Autònoma de Barcelona, Spain

12.30 – 13.30 *Lunch*

13.30 – 15.00 **Parallel Sessions E1 – E2**

PARALLEL SESSION E1 – VOTING

Potential, voting, and power

André CASAJUS, HHL Leipzig Graduate School of Management and Leipziger Spieltheoretisches Institut, Germany

Coalitional bargaining in run-off elections: an analysis from cooperative game theory

Michel LE BRETON, Toulouse School of Economics, France

Multilateral bargaining in networks: on the prevalence of inefficiencies

Joosung LEE, University of Edinburgh, United Kingdom

PARALLEL SESSION E2 – NETWORK GAMES 2

Contagion risk and network design

Marcin DZIUBIŃSKI, Institute of Informatics, University of Warsaw, Poland

Object allocation via deferred-acceptance: strategy-proofness and comparative statics

Bettina KLAUS, University of Lausanne, Switzerland

15.00 – 15.30 *Coffee break*

15.30 – 17.00 **Parallel Sessions F1 – F2**

PARALLEL SESSION F1 – INFORMATION ACQUISITION AND DIFFUSION

Word of mass: the relationship between mass media and word-of-mouth

Roman CHUHAY, Higher School of Economics, Russia

Network formation and information acquisition

João RAMOS, New York University, United States of America

Diffusion of multiple information

Nicole TABASSO, University of Surrey, United Kingdom

PARALLEL SESSION F2 – SOCIAL NETWORKS

On the hitchhiker game-theoretic network formation model

Daniil MUSATOV, CSDSI – New Economic School, Russia

Time allocation in friendship networks

Leonie BAUMANN, University of Hamburg, Germany

Fairness concerns on networks

Bastian WESTBROCK, Utrecht University School of Economics, The Netherlands

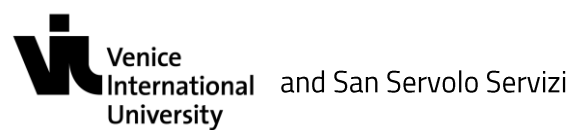
17.00 – 17.30 **CONCLUDING PLENARY SESSION**

17.30 *End of the Workshop*

The Workshop is organized by



In collaboration with



PLENARY SPEAKERS' PROFILES



Rabah AMIR

University of Iowa, United States of America

Rabah Amir is J. Edward Lundy Professor of Economics at the University of Iowa, since January 2013. He held past positions in Europe and the US, including at CORE, University of Arizona, and SUNY-Stony-Brook, as well as visiting appointments at Yale, University of Copenhagen, Caltech and WZBerlin. His primary research interests lie in game theory (stochastic games, supermodular games and equilibrium existence), theoretical industrial organization (oligopoly theory, network effects, innovation, mergers, etc...), economic dynamics, and more recently in public/environmental economics. He is currently on the editorial board of many journals, including Games and Economic Behavior, Economic Theory, Journal of Public Economic Theory, and International Journal of Industrial Organization.



Carlo CARRARO

Fondazione Eni Enrico Mattei and Ca' Foscari University of Venice, Italy

Carlo Carraro is Professor of Environmental Economics and Econometrics at Ca' Foscari University of Venice. He holds a Ph.D. from Princeton University. He has been President of the University of Venice from 2009 to 2014 and Director of the Department of Economics from 2005 to 2008. In 2008, he has been elected Vice-Chair of the Working Group III and Member of the Bureau of the Nobel Laureate Intergovernmental Panel on Climate Change. He is Director of the Climate Change and Sustainable Development Program of the Fondazione Eni Enrico Mattei, and Director of the International Centre for Climate Governance. He is Co-Chair of the Green Growth Knowledge Platform Advisory Committee and a Research Fellow of the CEPR (Center for Economic Policy Research), and of the CESifo (Center of Economic Studies), and Associate Research Fellow, CEPS (Center of Economic Policy Studies). He belongs to the Executive Board of the Euro Mediterranean Centre on Climate Change and to the Scientific Advisory Board of the Harvard Environmental Economics Program and of the Mercator Research Institute on Global Commons and Climate Change (MCC), Berlin. He is the Editor of the Review of Environmental Economics and Policy, the highest impact factor international journal in its field. Professor Carraro has a proven track record and international recognition in many relevant fields. He has written more than 200 papers and 30 books on the international coordination of monetary policy, coalitions and group formation in economic systems, international negotiations and the formation of international environmental agreements, the econometric modelling of integrated economies, climate change modeling and policy.



Debraj RAY

New York University, United States of America

Silver Professor, Faculty of Arts and Science, and Professor of Economics, NYU BA (1977) University of Calcutta; PhD (1983) Cornell University. Ray works in the areas of development economics and game theory. He is a Fellow of the Econometric Society, a Guggenheim Fellow, and a Fellow of the Society for Advancement in Economic Theory. He is on the Board of Directors of the Bureau for Research in the Economic Analysis of Development (BREAD). He received the Dean's Award for Distinguished Teaching at Stanford and the Gittner Award for Teaching Excellence at Boston University. He holds an honorary degree from the University of Oslo, and is a Co-Editor of the American Economic Review. Ray's textbook, Development Economics (Princeton University Press) was described the Chronicle of Higher Education as "a revolutionary textbook that takes the field by storm."



Matthias SUTTER

University of Cologne, Germany and University of Innsbruck, Austria

Matthias Sutter (born 1968) is Professor of Experimental Economics at the University of Cologne (since January 2015) and part-time professor at the University of Innsbruck. Previously he was at the European University Institute in Florence (2013-2014), at the University of Innsbruck (2006-2013), the University of Cologne (2005-2006) and the Max Planck Institute of Economics Jena (2003-2005). He got his PhD in economics (1999) from the University of Innsbruck where he also finished his habilitation (2002). From July 2007 to June 2013 he was also Professor (part-time) at the University of Gothenburg. His research focuses on the experimental analysis of team decision making and on the development of economic decision making with age. He has published his work, among others, in Science, Econometrica, American Economic Review, Review of Economic Studies, Management Science, PNAS, Games and Economic Behavior, Economic Journal, or European Economic Review. He is currently Associate Editor of "Management Science", of "European Economic Review" and of "Economics Letters", and Editorial Board Member of "Experimental Economics" and of "Journal of the Economic Science Association". He was Associate Editor of "Journal of Economic Psychology" (2006-2010). His work earned him several prizes, among others the Science Prize of the State of Tyrol (2009), the Honorary Prize for Science of the State of Vorarlberg (2008) and the Oberbank Science Prize (2004). In 2014 he published a popular book ("Die Entdeckung der Geduld") about the importance of patience for health and economic success.

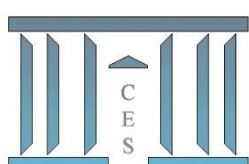
ABOUT CTN



The Coalition Theory Network (CTN) is an association of eight high-level scientific and academic institutions whose aim is the advancement and diffusion of research in the area of network theory and coalition formation. The history of CTN began in 1995, when FEEM joined CORE – University of Louvain la Neuve in organizing a workshop on coalition formation and environmental games, with focus on the analysis of the process of international climate negotiations.

The success of the workshop induced the organisers to widen the focus of the following meetings to the burgeoning applications of coalition and network theory, and to undertake the formal creation of CTN. The yearly meetings have continued for 20 years, hosted in turn by the partner institutions, among which those that have joined in the meantime (GREQAM- University of Aix Marseilles, and CES – University Paris I in 1999, MOVE – Universitat Autònoma de Barcelona in 2000, Maastricht University and Vanderbilt University in 2006, and CSDSI – New Economic School in 2014).

The CTN has progressively become a reference point for the study of network and coalition formation and their applications. This volume represents a tribute to research developed by the Coalition Theory Network and presented at the CTN annual workshops, on the occasion of the 20th anniversary of its foundation.



Centre d'Économie de la Sorbonne (CES)

CES is a research team created in 1998 and hosted by the Maison des Sciences Economiques of the Université Paris-I.

CES is devoted to both theoretical and empirical economic research at its highest level. CES researchers are renowned economists trained in the best French and international universities. CES is also linked to a graduate school and trains some 350 PhD students.



Center for Operations Research and Econometrics (CORE)

CORE is a research centre associated with the Université Catholique de Louvain, Belgium. It is an institute for interdisciplinary research, in the complementary fields of quantitative economics, economic theory and game theory, operations research

and econometrics. Its aim is the development and implementation of knowledge, at the most advanced level, and the training of young researchers in these fields, in order to ensure continuity in the scientific environment and diffusion of knowledge in the relevant professional circles in both the private and the public sectors.

Apart from an interest in coalition and network theory, the researchers of the CORE CTN branch are very active in closely related research fields such as game theory, industrial organization, general equilibrium theory, mathematical economics, operations research, and social choice theory.



Fondazione Eni Enrico Mattei (FEEM)

The Fondazione Eni Enrico Mattei (FEEM) is a privately owned research institution with an excellent international reputation in the field of economics. Research on coalition formation is one of the principal and traditional activities of Fondazione Eni Enrico Mattei. The climate change policy research area investigates alternative options for future international climate agreements, with the goal of advancing knowledge in the area of coalition and network formation and of applying it to the analysis of the process of international climate negotiations. In order to better understand the mechanisms at work when social dilemmas, as the provision of global climate quality, are present, FEEM is also working with laboratory experiments on individual interactions.

In recent years, FEEM researchers and fellows have published several articles and books on strategic incentives for signing an international environmental agreement. The main reason for investing in this area of research is the increasing urgency of global environmental problems, such as the greenhouse effect, the rifts in the ozone layer, acid rain, the over-exploitation of marine resources, etc.

FEEM runs also a Research Programme on “Economy and Society” that promotes a multidisciplinary approach to scientific research on the human and social dimension of economic progress and civilization, and on the cultural, economic and geostrategic challenges in today’s globalised society.



Groupement de Recherche en Économie Quantitative d'Aix-Marseille (GREQAM)

Groupement de Recherche en Économie Quantitative d'Aix-Marseille (GREQAM) is an Economics research unit of the Aix-Marseille School of Economics, (AMSE) jointly managed by Aix-Marseille University (AMU), the Centre National de la Recherche Scientifique (CNRS), the École des Hautes Etudes en Sciences Sociales (EHESS) and the engineering school École Centrale de Marseille. GREQAM has nearly 80 teaching and research staff members, 17 administrative staff members and technicians, and more than 75 PhD students. Set up in 1994, GREQAM is regularly ranked among the top five Economics research centres in France, and, according to RePEc, among the top 100 Economics departments worldwide.



Market, Organizations and Votes in Economics (MOVE)

MOVE is a new research institute in the field of Economics, a consortium created by the Generalitat de Catalunya and the Universitat Autònoma de Barcelona, and located on the Bellaterra campus of that University.

MOVE's main objective is to create the conditions for a leap forward in the excellence of its already substantial economics research and educational programs, which have made the Bellaterra campus an important part of the research community within Barcelona, Spain and Europe. MOVE plans to create an environment that will allow its present fellows to excel, and that will stimulate the arrival of new researchers at both the junior and senior levels.

Part of MOVE's activities will be aimed at gaining the trust of the research community, in order to create an environment of excellence where ambitious researchers can build successful, stimulating careers. Its visitor program will attract top researchers to sojourn in our environment. MOVE will also organize meetings on advanced topics and help improve the Barcelona School of Economics' Masters Programs and the Universitat Autònoma de Barcelona's IDEA PhD Program.

MOVE Research Areas: Mechanism Design, Quantitative Economics and Economics of Science and Innovation.



NES Center for the Study of Diversity and Social Interactions (CSDSI)

The NES Center for the Study of Diversity and Social Interactions was set up under the academic leadership of the world-renowned economist Shlomo Weber.

The Center began its activities on July 1, 2013, focusing on research into the theoretical and empirical aspects of social interaction in a heterogeneous society (such as Russia's) with various types of cultural, ethnic, geographic, religious, genetic, economic, historical and regional diversity. Special attention is paid to regional challenges in Russia for the purpose of encouraging balanced development, inclusive growth and prudent social policies across a country that has such an extremely heterogeneous terrain, climate, population, and labor market.

The main objectives of the Center are: implementation of research, dissemination of disseminating research results, planning the participation of NES's teaching staff, research staff and students in the Center's scientific activities, international integration and the development of developing international scientific relations within the framework of ongoing research activities.

To achieve these objectives the Center performs the following functions: it conducts basic and applied research in the field of the study of diversity and social interactions; organizes and holds conferences, research and training workshops and schools; invites and organizes the participation of non-resident and foreign researchers, young scientists and students in events held in the Center; engages young scientists, graduate students and students of the NES and other universities in scientific work and

research activities; prepares scientific publications, monographs and other works based on the results of scientific research; cooperates with Russian and foreign universities in the direction of research, participating in outreach activities conducted by these universities; builds up and maintains the database for empirical research.

Maastricht University **Universiteit Maastricht - Department of Economics**

The Maastricht CTN research group consists of members of the Department of Economics (AE1) and of the Department of Quantitative Economics. The current active researchers are Burak Can, Christine Gutekunst, Jean-Jacques Herings, Nikita Krugljakov, Friederike Mengel, Ronald Peeters, Andrés Perea, Hans Peters, Arkadi Predtetchinski, Arno Riedl, Ingrid Rohde, Christian Seel, Martin Strobel, Giacomo Valletta (local coordinator) and Alexander Westkamp. Apart from a specific interest in coalition and network theory, the researchers of the Maastricht CTN branch are very active in closely related research topics such as game theory, behavioural and experimental economics, general equilibrium theory, mathematical economics, operations research, and social choice theory.



Vanderbilt University - Department of Economics

The Vanderbilt University node consists of several members of the Department of Economics, all with interests in game theoretic approaches to the study of coalitions, networks, and more generally, the effect of group activities on socio-economic outcomes. Of particular interest to the Vanderbilt team are questions of the effects of group activities in models of trade, industrial organization, law and economics, inequality, social choice and welfare, and public economics.