

# CODE

Center for the study of Organizations and Decisions in Economics

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## ACTIVITY REPORT 2000

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|--------------------------------------|---|
| <a href="#">INTRODUCTION</a>         | <a href="#">PUBLICATIONS AND WORKING PAPERS</a> |
| <a href="#">RESEARCHERS</a>          | <a href="#">EDITORIAL ACTIVITIES</a>            |
| <a href="#">ACADEMIC VISITS</a>      | <a href="#">CONFERENCES AND MEETINGS</a>        |
| <a href="#">ADMINISTRATIVE STAFF</a> | <a href="#">SEMINARS</a>                        |
| <a href="#">AREAS OF RESEARCH</a>    | <a href="#">ORGANIZATION OF CONFERENCES</a>     |
| <a href="#">RESEARCH PROJECTS</a>    | <a href="#">ORGANIZATION OF COURSES</a>         |
| <a href="#">RESEARCH VISITS</a>      | <a href="#">PH.D. THESIS</a>                    |

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## INTRODUCTION

The Center for the Study of Organizations and Decisions in Economics (CODE) is a research center at the Universitat Autònoma de Barcelona, created in 1995 to promote high quality research in the theory of economic decisions and organizations. Since the beginning of its activities, CODE's main goal is to provide an environment allowing for excellence in research as measured by the international standards of scientific quality.

CODE's permanent members belong to the Department of Economics at the UAB, which has pioneered in Economics Research for the last twenty years. The Department is still the natural meeting point for those activities, like undergraduate and doctoral education, for which diversity of interests and abilities are most important.

The activity report strives to be a regular publication that our colleagues look forward to be available. The present edition covers the activities performed during 2000.

In its fifth year of activities, CODE has hosted 15 visitors from all over the world for stays ranging from one month to one year. Research activities can be grouped in five areas: Financial Economics/Macroeconomics, Industrial Organization, Mathematical Economics, Public Economics and Social Choice/Game Theory. All this research is developed through 15 research projects financed by the Spanish Ministry of Education, the Catalan Government (Generalitat de Catalunya) and the European Union. It has materialized in 25 papers published in leading economic journals and the participation of CODE members in major academic meetings, both as organizers and as participants.

All in all, we hope this report reflects the commitment of CODE to build an increasingly consistent research center that can be taken as a reference point for top quality research within Europe and beyond.

## **MEMBERS**

### **RESEARCHERS**

BARBERÀ SÁNDEZ, Salvador

Ph.D.: Northwestern University (1975)

Fields of Specialization: Public Economics, Social Choice.

BEVIÁ BAEZA, Carmen

Ph.D.: Universidad de Alicante (1994)

Fields of Specialization: Social Choice, Public Economics.

CABALLÉ VILELLA, Jordi

Ph.D.: University of Pennsylvania (1989)

Fields of Specialization: Finance, Macroeconomics.

FRADERA GARRIGA, Isabel

Ph.D.: Northwestern University (1980)

Fields of Specialization: Mathematical Economics, Imperfect Competition.

MACHO-STADLER, Inés

Ph.D.: École des Hautes Études en Sciences Sociales, Paris (1989)

Fields of Specialization: Economics of Information, Industrial Organization, Public Economics.

MARTÍNEZ GIRALT, Xavier

Ph.D.: CORE, Université Catholique de Louvain (1988)

Fields of Specialization: Industrial Organization, Health Economics.

MARTÍNEZ LEGAZ, Juan Enrique

Ph.D.: Universitat de Barcelona (1981)

Fields of Specialization: Optimization Theory, Convex Analysis, Mathematical Economics.

MASSÓ CARRERAS, Jordi

Ph.D.: State University of New York at Stony Brook (1988)

Fields of Specialization: Game Theory, Social Choice.

OLIVELLA CUNILL, Pau

Ph.D.: Northwestern University (1989)

Fields of Specialization: Economics of Information, Public Economics.

PÉREZ-CASTRILLO, David

Ph.D.: École des Hautes Études en Sciences Sociales, Paris (1991)

Fields of Specialization: Economics of Information, Industrial Organization, Game Theory.

PONSATÍ OBIOLS, Clara

Ph.D.: University of Minnesota (1988)

Fields of Specialization: Game Theory.

(On leave at University of Toronto for 2000-2001)

## **ACADEMIC VISITS**

BARROS, Pedro P.

Universidade Nova de Lisboa

October and July

CECHLÁROVÁ, Katarina

PJ Safarik University, Kosice, Slovakia.

May

DUTTA, Joydeep

Indian Statistical Institute, India

November 00 - November 01

GERBER, Anke

University of Bielefeld, Germany

July

GRODAL, Birgit  
Institute of Economics  
University of Copenhagen, Denmark  
January-February

HAERINGER, Guillaume  
Marie Curie Individual Fellowship  
January 00-June 01

ITURBE, Iñigo  
Universitat d'Alacant  
March

KOMLOSI, Sandor  
Janus Pannonius University, Hungria  
June

LaCASSE, Chantalle  
University of Toronto, Canada  
April-September

MANZINI, Paola  
Queen Mary, University of London, UK  
July

MORDUKOVICH, Boris  
Wayne State University, U.S.A.  
June

NEME, Alejandro  
Universidad Nacional de San Luis, Argentina.  
October

OVIEDO, Jorge  
Universidad Nacional de San Luis, Argentina.  
May-June

RUBINOV, Alexander  
University of Ballarat, Australia  
November 00-April 01

WETTSTEIN, David  
Ben-Gurion University, Israel.

## **ADMINISTRATIVE STAFF**

IGLESIAS HERNÁNDEZ, Conxa  
VALLEJO TEY, Marta

## **AREAS OF RESEARCH**

- Financial Economics-Macroeconomics
- Industrial Organization
- Public Economics
- Social Choice Theory-Game Theory

## **RESEARCH PROJECTS**

A brief description is given of the research projects in which the members of CODE are involved. These projects are financed by the Ministry of Education and Science through the Inter-Ministerial Commission of Science and Technology, by the Government of Catalonia and by the European Community.

Title: *Acciones Integradas España-G.B, HB1998-0143*

Team coordinator: Salvador Barberà

Description: Bilateral Research Project (Spain/U.K.).

Title: *Acciones Integradas España-Portugal, HB1998-0057*

Team coordinator: Inés Macho-Stadler

Description: Bilateral Research Project (Spain/Portugal).

Title: *Exploratory Workshop on Bargaining (European Science Foundation)*

Team coordinator: Clara Ponsatí

Description: Organization of workshops on bargaining theory and its applications.

Title: *Programa d'Estudis Catalans Gaspar de Portolà: Activitats de col.laboració.*

Team coordinator: Salvador Barberà

Description: Catalanian Studies Program Gaspar de Portolà: Activities of Collaboration with University of California.

Title: *Market and Non Market Organizations: Design and Regulation (MNM) MCFH-1999-01245*

Team coordinator: Salvador Barberà

Description: Programme "Improving Human Research Potential and the Socio-economic Knowledge Base". Marie Curie Training Site.

Title: *Group and Coalition Formation. Voting, Bargaining and the Supply of Public services. DGICYT PB98-0870*

Team coordinator: Salvador Barberà

Description: We consider situations where the interaction among economic agents leads to the formation of differentiated groups. We concentrate on those cases where groups arise as the result of voting, matching, or the self selection of different types of users for public goods and services. We combine the use of cooperative and noncooperative game theoretic tools, and develop new notions of stability. We also use simulation techniques.

Title: *Comissionat per a Universitats i Recerca. Generalitat de Catalunya. 2000SGR-154*

Team coordinator: Salvador Barberà

Description: Support to top quality research groups.

Title: *Economic Challenges and Challenges to Economics in Southern Europe -ASSET-HPCF-1999-00245*

Team coordinator: Salvador Barberà

Description: Human Potential Programme: High-Level Scientific Conferences.

Title: *Convexity and Indivisibilities in Cooperative Games: Theory and Economic Applications. DGICYT PB95-0679*

Team coordinator: Juan E. Martínez Legaz

Description: Analysis of the role of convexity in cooperative game theory and its implications for economics models.

Title: *Programa Càtedra FBBV*

Team coordinator: Clara Ponsatí

Description: Grants for foreign researchers in Spain.

Title: *Programa Hispano-Norteamericano de Cooperación Científica y Tecnológica .*

Team coordinator: Salvador Barberà

Description: Bilateral Research Project (Spain/USA).

Title: *Topics in Public Economics: Economics of Innovation and Health Economics. PB97-0181*

Team coordinator: Inés Macho-Stadler

Description: This project consists in applying the microeconomic analysis to two aspects of Public Economics. The first refers to the Economics of Technological Change, and the second refers to Health Economics. The aim is to obtain normative conclusions that are useful in the design of desirable technological and health policy. First, we attempt to study the optimal technological policy with respect to joint research projects and mergers, while at the same time analyzing the appropriate combination of institutional and administrative mechanisms in a technological policy. Second, we attempt to study the way in which the private and public provision of health services may coexist. As a particular case, we will analyze the MUFACE system in Spain. We also want to engage in the

design of the best organization of each the health systems, as well as the demand-cost-sharing schemes and the incentive mechanisms directed to the service providers.

Title: *Cooperative Games and Economic Structures: Convexity, Monotonicity and Generalizations*. PB98-0867.

Team coordinator: Juan Enrique Martínez Legaz

Description: Representability of cooperative games that are not necessarily balanced by economic structures, and axiomatic analysis of solution concepts.

## **PUBLICATIONS AND WORKING PAPERS**

### **BARBERÀ, Salvador**

- (Joint with B. Dutta), "*Incentive Compatible Reward Schemes for Labour-Managed Firms*", Review of Economic Design, 5-2, 111-127.
- "*An Introduction to Strategy-proof Social Choice Functions*", forthcoming in Proceedings of the Nato Advanced Study Institute, Center for Game Theory in Economics, State University of New York at Stony Brook. Edited by William Thomson.
- (Joint with C. Bevià), "*Self Selection Consistent Functions*", forthcoming in Journal of Economic Theory.
- (Joint with M. Maschler and J. Shalev), "*Voting for Voters: A Model of Electoral Evolution*", forthcoming in Games and Economic Behavior.
- (Joint with Andrés Perea), "*Supporting Others and the Evolution of Influence*", forthcoming in Journal of Dynamics and Control.
- (Joint with B. Dutta and A. Sen), "*Strategyproofness of Social Choice Correspondences*", forthcoming in Journal of Economic Theory.
- "*L'heterodòxia d'un teòric ortodox: Amartya Sen, Premi Nobel d'Economia 1998*", Anuari Volum 16 Societat Catalana d'Economia.
- "*Notas sobre la teoría de la elección social*". En La investigación económica en España, 1990-2000. Una década de cambios. Instituto Valenciano de Investigaciones Económicas (IVIE), València.
- (Joint with W. Bossert and P. K. Pattanaik), "*Ranking Sets of Objects*", in Salvador Barberà, Peter J. Hammond and Christian Seidl (eds.), Handbook of Utility Theory. Volume 2, Kluwer Academic Publishers, forthcoming .

### **BEVIÀ, Carmen**

- (Joint with S. Barberà), "*Self Selection Consistent Functions*", forthcoming in Journal of Economic Theory.
- (Joint with S. Barberà), "*Self Selection Consistency and the Condorcet Criterion*", mimeo.
- (Joint with L. Corchón and S. Wilkie), "*Implementation of the Walrasian Correspondence by Market Games*".
- (Joint with I. Iturbe-Ormaetxe), "*Taxation, Altruism and Subsidies for Higher educations*".

### **CABALLÉ, Jordi**

- (Joint with J. Panadés), "*Tax Evasion and Economic Growth*", Public Finance/Finances Publiques,

vol 3-4/1997 (published 2000).

- "*Una visió retrospectiva de l'obra de Robert Mundell*" in "El Premis Nobel de l'any 1999", Institut d'Estudis Catalans, 97-123.
- (Joint with L. Fuster), "*Pay-as-you go Social Security and the Distribution of Bequests*", Universitat Pompeu Fabra, WP 468.

### **MACHO-STADLER, Inés**

- (Joint with D. Pérez-Castrillo), "*Auditing with Signals*", forthcoming in *Economica*.
- "*Incentivos y contratos en I+D*", forthcoming in *Ekonomiaz*.
- (Joint with M. P. Espinosa) "*Endogeneous Formation of Partnerships with Moral Hazard*", mimeo.
- (Joint with D. Pérez-Castrillo), "*Settlement in Tax Evasion Prosecution*", mimeo.

### **MARTÍNEZ GIRALT, Xavier**

- (Joint with P. P. Barros), "*Public and Private Provision of Health Care*", *Journal of Economics & Management Strategy*, forthcoming.
- (Joint with P. P. Barros), "*Negotiation Advantages of Professional Associations in Health Care*", UAB-CSIC Working Paper 466.00, 2000.
- (Joint with P. P. Barros), "*Selecting Negotiation Processes with Health Care Providers*", UAB-CSIC Working Paper 467.00, 2000.

### **MARTÍNEZ LEGAZ, Juan Enrique**

- "*Optimización Matemática y sus Aplicaciones Económicas*". *Varia Mathematica* 1, 97-153.
- (Joint with I. Singer) "*Semi-spaces and bases of convexity systems in complete lattices*", *Constructive, experimental, and nonlinear analysis (Limoges, 1999)*, 235-243, CMS Conf. Proc., 27, Amer. Math. Soc., Providence, RI, 2000
- (Joint with A.M. Rubinov and I. Singer) "*Downward sets and their separation and approximation properties*", Research Report 00/24, School of Information Technology and Mathematical Sciences, University of Ballarat, Australia
- (Joint with A. Daniilidis and N. Hadjisavvas) "*An appropriate subdifferential for quasiconvex functions*", Research Report Analyse Non Linéaire et Optimisation 2000/38, Université de Pau et des Pays de l'Adour et Centre National de la Recherche Scientifique, France

### **MASSÓ, Jordi**

- (Joint with R. Martínez, A. Neme and J. Oviedo), "*Single Agents and the Set of Many-to-One Stable Matchings*", *Journal of Economic Theory*, 91, 91-105..
- (Joint with R. Martínez, A. Neme and J. Oviedo), "*On the lattice structure of the set of stable matchings for a many-to-one model*", forthcoming in *Optimization*.
- (Joint with A. Neme), "*Maximal domain of preferences in the division problem*", forthcoming in *Games and Economic Behavior*.
- (Joint with G. Bergantiños), "*The Chi-Compromise Value for non-transferable Utility Games*", UAB-CSIC WP 456.00.
- (Joint with R. Martínez, A. Neme and J. Oviedo), "*An Algorithm to Compute the Set of Many-to-many State Matchings*", UAB-CSIC WP 457.00.

### **OLIVELLA, Pau**

- (Joint with P.P. Barros), *"Waiting Lists and Patient Selection"* mimeo 2000.
- *"Shifting National Health Service Waiting Lists to the Private Sector"*, mimeo 2000.

### **PÉREZ-CASTRILLO, David**

- (Joint with D. Wettstein), *"Implementation of Bargaining Sets via Simple Mechanisms"*, *Games and Economic Behaviour*, 31, 106-120.
- (Joint with D. Wettstein), *"Bidding for the Surplus: A Non-cooperative Approach to the Shapley Value"*, forthcoming in *Journal of Economic Theory*.
- (Joint with M. Sotomayor), *"A Simple Selling and Buying Procedure"* forthcoming in *Journal of Economic Theory*.
- (Joint with I. Macho-Stadler), *"Auditing with Signals"*, forthcoming in *Economica*.
- (Joint with D. Wettstein), *"In whose backyard? A Generalized Bidding Approach"*, w.p. UAB 463.00.
- (Joint with I. Macho-Stadler), *"Settlement in Tax Evasion Prosecution"*, mimeo.
- (Joint with B. Cassiman and R. Veugelers), *"Endogeneizing Know-how Flows through the Nature of R&D Investment"* w.p. UAB 464.00.

### **PONSATÍ, Clara**

- (Joint with J.Sákovics), *"Randomly Available Outside Options in Bargaining"*, forthcoming in *Spanish Economic Review*.
- (Joint with V. Berham and C. LaCasse), *"Chores"*, mimeo.
- *"Search in Bargaining in Simple Markets"*, mimeo.
- (Joint with Nadia Burani) *"Bilateral Collusion in Markets with Decentralized Trade"*, mimeo.
- *"Economic Diplomacy"*, mimeo.
- *"Bargaining and Mediation"*, mimeo.

## **EDITORIAL ACTIVITIES**

### **BARBERÀ, Salvador**

- Editor:  
SPANISH ECONOMIC REVIEW.
- Associate Editor:  
SOCIAL CHOICE AND WELFARE.  
MATHEMATICAL SOCIAL SCIENCES.  
REVIEW OF ECONOMIC DESIGN  
JOURNAL OF PUBLIC ECONOMIC THEORY.
- Advisory Board:  
THEORIA
- Editorial Board:  
EXPANSIÓN

### **CABALLÉ, Jordi**

- Editorial board:

SPANISH ECONOMIC REVIEW  
INVESTIGACIONES ECONÓMICAS  
PORTUGUESE ECONOMIC JOURNAL

**MACHO STADLER, Inés**

- Co-editor:

SPANISH ECONOMIC REVIEW

- Editorial board:

REVUE ECONOMIQUE

**MARTÍNEZ LEGAZ, Juan Enrique**

- Editorial board:

OPTIMIZATION

JOURNAL OF CONVEX ANALYSIS

JOURNAL OF GLOBAL OPTIMIZATION

- Co-editor of the special issues of Optimization devoted to the CODE Workshop on Generalized Convexity and Monotonicity in Economic Modeling.

**MASSÓ, Jordi**

- Editorial committee:

INVESTIGACIONES ECONÓMICAS

**PÉREZ CASTRILLO, David**

- Managing Editor:

INVESTIGACIONES ECONÓMICAS

- Editorial board:

SPANISH ECONOMIC REVIEW

**PONSATÍ OBIOLS, Clara**

- Editorial board:

REVIEW OF ECONOMIC DESIGN

## **CONFERENCES AND MEETINGS**

**BARBERÀ, Salvador**

- V Meeting of the Society for Social Choice and Welfare, Alacant, Spain, June.

- Games 2000, Bilbao, Spain, July.

- Fourth Spanish Meeting on Game Theory and Applications. Game Practice II, València, Spain, July.

- 3rd. Summer School on Economics and Philosophy, "On Bounded Rationality", Fundación Urrutia Elejalde, San Sebastián, Spain, July-August.

- ASSET Meeting, Lisboa, Portugal, November.

- XVth. Bielefeld FOG-Meeting. Game Theory, Implementation and Procedures. Bielefeld, Germany, November.
- XXV Simposio de Análisis Económico, Bellaterra, Barcelona, Spain, December.

### **BEVIÀ, Carmen**

- Workshop on Coalition Formation, Barcelona, Spain, January.
- V Meeting of the Society for Social Choice and Welfare, Alacant, Spain, June.
- Second International Conference of the Association for Public Economic Theory, Warwick, July.
- 8th. World Congress of the Econometric Society, Seattle, USA, August.
- ASSET Meeting, Lisboa, Portugal, November..
- XXV Simposio de Análisis Económico., Bellaterra, Barcelona, Spain, December.

### **CABALLÉ, Jordi**

- Summer Meeting of the European Economic Association on "The Sources of European Growth".
- XXV Simposio de Análisis Económico., Bellaterra, Barcelona, Spain, December.

### **MACHO-STADLER, Inés**

- Workshop on Coalition Formation, Barcelona, Spain, January.
- Games 2000, Bilbao, Spain, July.
- 8th. World Congress of the Econometric Society, Seattle, USA, August.
- XXV Simposio de Análisis Económico, Bellaterra, Barcelona, Spain, December.

### **MARTÍNEZ-GIRALT, Xavier**

- 27th EARIE Conference, Lausanne, Switzerland
- ENTER Jamboree, London.

### **MARTÍNEZ LEGAZ, Juan Enrique**

- INFORMS Spring 2000, Salt Lake City (Utah), U.S.A., May
- The Ninth International Colloquium on Numerical Analysis and Computer Science with Applications, Plovdiv, Bulgaria, August
- Workshop on Mathematical Programming, Games and Networks, Aix-en-Provence, France, December

### **MASSÓ, Jordi**

- Workshop on Coalition Formation, Barcelona, Spain, January.
- V Meeting of the Society for Social Choice and Welfare, Alacant, Spain, June.
- Games 2000, Bilbao, Spain, July.
- 8th. World Congress of the Econometric Society, Seattle, USA, August.
- 17 International Symposium on Mathematical Programming. Atlanta, USA, August.
- XXV Simposio de Análisis Económico, Bellaterra, Barcelona, Spain, December.

### **OLIVELLA, Pau**

- Strategic Issues in Health Care Management, St. Andrews, UK, March-April.
- 8th. World Congress of the Econometric Society, Seattle, USA, August.
- Jornadas de Economía Industrial, Madrid.
- - XXV Simposio de Análisis Económico, Bellaterra, Barcelona, Spain, December.

### **PÉREZ-CASTRILLO, David**

- Workshop on Coalition Formation, Barcelona, Spain, January.
- Games 2000, Bilbao, Spain, July.
- 8th. World Congress of the Econometric Society, Seattle, USA, August.
- 17 International Symposium on Mathematical Programming. Atlanta, USA, August.
- 2° Congreso Latinoamericano de Teoría Económica, San Luís, Argentina, September.
- ASSET Meeting, Lisboa, Portugal, November..
- XXV Simposio de Análisis Económico, Bellaterra, Barcelona, Spain, December.

### **PONSATÍ, Clara**

- Exploratory Workshop on Bargaining, Barcelona, April.
- V Meeting of the Society for Social Choice and Welfare, Alacant, Spain, June.
- Games 2000, Bilbao, Spain, July.
- Society for Economic Design, Istanbul, Turkey

## **SEMINARS**

### **BARBERÀ, Salvador**

California Institute of Technology, USA

Rice University, California

Southern Methodist University, USA

University of California, Davis

University of California, Riverside

University of Southern California

### **BEVIÀ, Carmen**

Universidad Carlos III, Madrid, Spain, November

Barcelona-Jocs, Barcelona, November

### **CABALLÉ, Jordi**

Universitat de Barcelona.

Institut d'Estudis Catalans

### **MACHO-STADLER, Inés**

Business School of Bergen, Norway, May.

Barcelona Jocs, Spain, May.

Berlin, Germany, October.

Université de Caen, France, January.

### **MARTÍNEZ GIRALT, Xavier**

Universidad de Vigo, September

### **MARTÍNEZ LEGAZ, Juan Enrique**

Universitat Politècnica de Catalunya, Barcelona, July  
Université d'Avignon, France, December

**MASSÓ, Jordi**

Universitat Pompeu Fabra, Barcelona.

**PÉREZ-CASTRILLO, David**

Université de Caen, France, January.  
Université de Cergy-Pontoise, France, January.

**PONSATÍ, Clara**

University of Western Ontario, Canada, March.  
University of Toronto, Canada, October.  
Queen's University, November.

## **ORGANIZATION OF CONFERENCES**

- *Workshop on Coalitions Formation*

January 21-22, 2000

Organizer: Salvador Barberà

- *Exploratory Workshop on Bargaining,  
European Science Foundation Activity*

April 7-8, 2000

Organizer: Clara Ponsatí

- *Summer Meeting of the European Economic Association on "The Sources of European Growth"*

September 4-9, 2000

Co-organizer: Jordi Caballé

- *Workshop on Mathematical Programming, Games and Networks (Aix-en-Provence, France)*

December 14-15, 2000

Co-organizer: Juan Enrique Martínez Legaz

## **ORGANIZATION OF COURSES**

*Doctoral Seminar on Economics of Information*

EIASM, Brussels, Belgium.

September 18-22

Organizers: Inés Macho-Stadler and David Pérez-Castrillo.

## RESEARCH VISITS

### **BARBERÀ, Salvador**

- California Institute of Technology, USA, January-June.

### **MARTÍNEZ-LEGAZ, Juan Enrique**

- St. Hugh's College, UK, February

- Universidad de Sevilla, March

- Université de la Méditerranée et d'Aix-Marseille II, France, December.

### **PÉREZ-CASTRILLO, David**

Universidad Nacional de San Luís, Argentina, September.

### **PONSATÍ, Clara**

Unstitute for Policy Analysis, Univesity of Toronto, Canada, September-December.

## ADVISING PH.D. THESIS

### **DAVID CANTALA**

Citizen of France. BA in Economics from the Université de Toulouse. He defended his thesis *Voting with Self-Exclusion and Restabilization of Senior Level Markets* in 2000. He teaches at ITAM (Mexico). Thesis advisor: Jordi Massó.

### **JESÚS GETÁN**

Citizen of Spain, BA in Mathematics from the Universidad de Zaragoza. Defended his thesis *(\*,s)-Dualities* at the Universitat de Barcelona in 2000. He teaches at the Universitat de Barcelona. Thesis advisor: Juan Enrique Martínez Legaz

### **ANTONIO NICOLO**

Citizen of Italy. BA in Economics from the Università Commerciale Luigi Bocconi (Milan). Defended his thesis *Social Compromise and Collective Choice. Incentive-compatible, efficient and fair procedures* in 2000. He teaches at the Università di Padova. Thesis advisor: Salvador Barberà

### **JUDITH PANADÉS**

Citizen of Spain. BA in Economics from the Universitat Autònoma de Barcelona. Defended her thesis *Essays on Tax Compliance* in 2000. She teaches at the Universitat Autònoma de Barcelona. Thesis advisor: Inés Macho-Stadler.

### **JUAN PEROTE**

Citizen of Spain. BA in Economics from the Universitat Autònoma de Barcelona. Defended her thesis *Compensation Schemes in Collective decision Making* in 2000. Thesis advisor: Salvador

Barberà.