



Università  
Ca' Foscari  
Venezia

Dipartimento  
di Economia



## CURRICULUM VITAE

**Professor CARLO CARRARO**  
**Università Ca' Foscari Venezia**  
**Ph.D, Princeton University**

*Curriculum vitae Carlo Carraro*

### PERSONAL INFORMATION

Professor  
Department of Economics  
Università Ca' Foscari Venezia  
San Giobbe 873  
30121 Venezia, Italy  
Tel.: +39 041 2349166  
Fax: +39 041 2349176  
E-mail: [ccarraro@unive.it](mailto:ccarraro@unive.it)

Director  
International Center for Climate Governance -  
Fondazione Eni Enrico Mattei  
Isola di San Giorgio Maggiore, 8  
30124 Venezia (Italy)  
Tel: +39 041 2700460  
Fax: +39 041 2700412  
E-mail: [carlo.carraro@feem.it](mailto:carlo.carraro@feem.it)

Executive Board Member  
EuroMediterranean Center for Climate  
Change (CMCC)  
Via Augusto Imperatore 16  
73100 Lecce (Italy)  
Tel: +39 0832 288 650 201  
Fax: +39 0832 277 603  
E-mail: [carlo.carraro@cmcc.it](mailto:carlo.carraro@cmcc.it)

Vice-Chair, Working Group III  
Intergovernmental Panel on Climate Change  
(IPCC)  
C/O World Meteorological Organization  
7bis Avenue de la Paix  
C.P. 2300  
CH- 1211 Geneva 2, Switzerland  
E-mail: [IPCC-Sec@wmo.int](mailto:IPCC-Sec@wmo.int)

Co- Chair, GGKP  
Green Growth Knowledge Platform  
International Environment House  
11-13 Chemin des Anemones  
1219 Geneva, Switzerland  
<http://www.greengrowthknowledge.org/>

Editor, REEP  
Review of Environmental Economics and Policy  
Oxford University Press  
198 Madison Avenue  
New York, NY 10016  
E-mail: [reep@aere.org](mailto:reep@aere.org)

Webpage: [www.carlocarraro.org](http://www.carlocarraro.org)

### SHORT PROFILE

Professor Carlo Carraro is President Emeritus and 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 (IPCC). He has been working as IPCC Lead Author since 1995.



Università  
Ca' Foscari  
Venezia

Dipartimento  
di Economia

Professor Carraro is Co-chair of the Advisory Board of the Green Growth Knowledge Platform (GGKP), a joint initiative of the Global Green Growth Institute (GGGI), the OECD, the United Nations Environment Programme (UNEP), and the World Bank.

He is also Director of the Climate Change and Sustainable Development Programme of the Fondazione Eni Enrico Mattei, Executive Board Member of the Euro Mediterranean Centre for Climate Change (CMCC), and Director of the International Centre for Climate Governance (ICCG).

He is member of the Board of Directors of the Association of Environmental and Resource Economists (AERE), of the Italian Society of Climate Sciences (SISC), and of the National School of Public Administration (SNA).

Professor Carraro is the Editor of *The Review of Environmental Economics and Policy*, one of the most important economics journals (ranked 11<sup>th</sup> out of 333 economic journals), and member of the Board of the Association of Environmental and Resource Economists (AERE).

He is also a member of the Scientific Advisory Board of: the Harvard Environmental Economics Program (HEEP); the Institute for Economic Research (Ifo), University of Munich; the Mercator Research Institute on Global Commons and Climate Change (MCC), Berlin; the Centre for Applied Macroeconomic Analysis (CAMA), Australian National University; the Fondazione Studium Marcianum, Venice; and the Fondazione Generali, Trieste.

He belongs to the Mitigation Board of the Global Network for Climate Solutions (GNCS) at Columbia University's Earth Institute and to CEPS Carbon Market Forum's Advisory Board.

In 2007, he has been elected Resident Member of the Academy "Istituto Veneto di Scienze, Lettere e Arti" and in 2010 of the Academy "Ateneo Veneto" in Venice.

He is also a Research Fellow of the CEPR (Center for Economic Policy Research), London and CESifo (Center of Economic Studies), Munich, and Associate Research Fellow, CEPS (Center of Economic Policy Studies), Bruxelles.

Professor Carraro is a member of the Steering Committee of the Italian Association for Environmental and Resource Economics (IAERE), of the International Energy Workshop (IEW), and of the Coalition Theory Network (CTN).

He belongs to the Consiglio Generale of the Fondazione di Venezia and to the Board of Directors of the Fondazione Studium Marcianum.

He worked as a consultant to the World Bank, the European Investment Bank and to the Economic and Social Research Institute (ESRI), Cabinet Office, Government of Japan. He has been a member of the Board of directors of the Generali Group and he is presently a member of the Strategic Committee of the Fondo di Fondi of Venture Capital (FOF VC).

In 2009 he has been awarded the Sustainable Energy Prize by the Italian Association of Energy Economists. In 2011 he has been awarded the Melvin Jones Fellowship by the Lions International and in 2014 the Paul Harris Fellowship by the Rotary International.

Past academic positions include teaching at the University of Paris I, LUISS in Rome, University of Udine, University of Aix-en-Provence, University of Paris X. He has also been Vice Provost for Research Management and Policy of Ca' Foscari University of Venice (2003-2006), President of the Venice Research District (2012-2014), Director of the Climate Impacts and Policy Division of the EuroMediterranean Center on Climate Change (2005-2013), Member of the Scientific Committee of the UN International Human Dimensions Programme (IHDP); and President of the Scientific Advisory Board of the Fondazione Eni Enrico Mattei (2010-2013).



Professor Carraro has a proven track record and international recognition in many relevant fields. He has written more than 200 papers and more than 30 books on the international coordination of monetary policy, the coordination between monetary and fiscal policy, coalitions and group formation in economic systems, international negotiations and the formation of international environmental agreements, monetary and fiscal problems in open economies, monetary policy coordination in Europe, the econometric modelling of integrated economies, dynamic modelling of climate-economy interactions, sustainable development. His current research focuses on climate policy both at the domestic and international level. He studies both long-term and short-term impacts of adaptation and mitigation policies and evaluates their costs and benefits using a wide range of integrated assessment models. The role of fiscal instruments and of their financial implications is particularly emphasised.

## FULL PROFILE

### Education

---

- 1985 Ph.D. in Economics, Princeton University (USA).  
Title of Dissertation: New Methods for Macroeconomic Policy Analysis.  
Thesis committee: Professors G.C. Chow, W. Newey, P. Hartley, A. Blinder.  
Grade: A.
- 1984 Master of Arts in Economics, Princeton University (USA).
- 1981 Visiting Student, Institute of Mathematical Economics and Econometrics,  
Freie Universität, Berlin (FRG).
- 1981 Laurea degree in Economics (Dottore in Economia e Commercio) at the  
University "Ca' Foscari" of Venice (Italy).  
Title of Dissertation: Analysis and Estimation of Rational Expectations Models:  
A System Theoretic Approach.  
Advisors: Professors Ignazio Musu and Domenico Sartore.  
Grade: Summa cum laude (110/110 and lode)
- 1980 Visiting Student, Department of Economics, University of Warwick (U.K.).

### Fellowship and Awards

---

- 2014 Paul Harris Fellowship by the Rotary International  
2011 Melvin Jones Fellowship by the Lions International  
2009 Sustainable Energy Prize, Italian Association of Energy Economists  
1982 Fulbright Fellowship  
1981 Interbancaria Fellowship, Milano.

### Languages

---

Italian	Mother tongue
English	Excellent
French	Excellent



## Present Positions

---

Professor of Environmental Economics and Econometrics, Department of Economics, University Ca' Foscari of Venice, Italy (<http://www.dse.unive.it>). President Emeritus, University Ca' Foscari of Venice.

Co-Chair, Green Growth Knowledge Platform (GGKP) Advisory Committee, Geneva, Switzerland;

Vice-Chair, Working Group III, and Member of the Bureau, Intergovernmental Panel on Climate Change (IPCC), Geneva, Switzerland (<http://www.ipcc.org>).

Director, Climate Change and Sustainable Development Programme, Fondazione Eni Enrico Mattei (FEEM), Milan, Italy. (<http://www.feem.it>).

Director, International Center for Climate Governance, San Giorgio Island, Venice, Italy (<http://www.iccgov.org>).

Executive Board Member, EuroMediterranean Center for Climate Change (CMCC), Lecce, Italy. (<http://www.cmcc.it>)

Editor, the Review of Environmental Economics and Policy, one of the most important economics journals (ranked 11<sup>th</sup> out of 333 journals).

Correspondent Resident Member of the Academy "Istituto Veneto di Scienze, Lettere e Arti" and of the Academy "Ateneo Veneto" in Venice.

Associate Research Fellow and member of the Carbon Market Forum Advisory Board, CEPS (Center of Economic Policy Studies), Bruxelles, Belgium.

Research Fellow of:

- Center for Economic Policy Research (CEPR), Londra, UK.
- Center of Economic Studies (CESifo), Monaco, Germany.

Member of:

- International Advisory Board of the Harvard Environmental Economics Program (HEEP), Harvard University, Cambridge, MA;
- Expert Advisory Board, Mercator Research Institute on Global Commons and Climate Change (MCC), Berlin.
- Strategic Committee, Fondo di Fondi of Venture Capital (FOF VC), Milan.
- Mitigation Board of the Global Network for Climate Solutions (GNCS) at Columbia University's Earth Institute, New York;
- Board of Directors of:
  - Association of Environmental and Resource Economists (AERE), Washington DC.
  - National School of Public Administration (SNA), Rome.
  - Fondazione Studium Marcianum (FSM), Venice.
  - EuroMediterranean Center for Climate Change (CMCC), Lecce, Italy
- Consiglio Generale of Fondazione di Venezia, Venice.
- Scientific Advisory Board of:
  - Institute for Economic Research (Ifo) at the University of Munich, Germany;
  - Centre for Applied Macroeconomic Analysis, Canberra, Australia;
  - Fondazione Generali, Trieste, Italy;
  - Fondazione Studium Marcianum, Venice, Italy.
- Steering Committee of:
  - Italian Association for Environmental and Resource Economics (IAERE)
  - International Energy Workshop (IEW)



- Italian Society for Climate Sciences (SISC)
- Coalition Theory Network (CTN)
- Faculty Board of the Ph.D. Programme on Science and Management of Climate Change, Università Ca' Foscari, Venice, Italy.

### **Past Academic Positions**

---

2009 – 2014	President, University of Venice President, Ca' Foscari University Foundation President, Ca' Foscari International College
2012 – 2014	President, Venice Research District Vice-President, Italian Society for Climate Sciences (SISC)
2011 – 2014	Member of the Scientific Committee of the UN International Human Dimensions Programme (IHDP)
2010 – 2014	President, International Center for Tourism Economics Member of the Board of Directors, Venice International University Member of the Consiglio Generale, Fondazione Giorgio Cini
2006 – 2008	Chairman, Department of Economics, University Ca' Foscari of Venice.
2001 – 2006	Vice Provost for Research Management and Policy, University of Venice.
2004 – 2005	Chairman of the University Committee for Research Quality Valuation (VTR), Venice
2002 – 2005	Member of the Board of the Inter-University Nanotechnology Consortium (CIVEN).
Fall 2003	Visiting Professor, LATAPSES, CNRS and University of Nice Sophia Antipolis (France).
Spring 1998	Visiting Professor of Environmental Economics, University of Paris X, Paris (France).
Fall 1997	Visiting Professor of Environmental Economics, GREQAM, Université de la Méditerranée, Marseille (France).
Fall 1996	Visiting Professor of Environmental Economics, University of Paris I, Paris (France)
Spring 1996	Professor at the International Master on Environmental Economics, Maich, Chania (Greece).
Spring 1995	Visiting Professor of Environmental Economics, LATAPSES and University of Nice Sophia Antipolis (France)
1992 1994	Professor of Economics, MBA Program, Clemson University, Pordenone (Italy)
Fall 1993 and 1994	Visiting Professor of Environmental Economics, GREQAM, University of Aix en Provence/Marseille II (France)
Nov. 1990–Nov. 1993	Professor of Econometrics, Departments of Economics, University of Udine, (Italy).



Università  
Ca' Foscari  
Venezia

Dipartimento  
di Economia

Fall 1991	Visiting Professor of Labour Economics, Université de Paris I, Paris (France)
Fall 1989 and 1990	Visiting Professor of Econometrics, Ecole des Hautes Etudes en Sciences Sociales, Paris (France).
Fall 1989	Visiting Fellow, Department of Economics, University College of London (U.K.).
Nov. 1987–Nov. 1990	Associate Professor of Econometrics, Department of Economics, University of Venice (Italy)
Summer 1987–1989	Professor at the Summer School of Econometrics, Bagni di Lucca, (Italy).
Fall 1987, 1988 and 1989	Visiting Professor of International Macroeconomics, University of Aix en Provence Marseille II and the Ecole des Hautes Etudes en Sciences Sociales of Marseille (France).
Spring 1987	Professor of Industrial Organization, Libera Università Internazionale degli Studi Sociali (LUISS), Rome (Italy).
Fall 1986	Visiting Professor of Game Theory, Centre d'Economie Mathématique, Université de Paris I, Panthéon-Sorbonne (France).
Nov. 1983–Nov. 1987	Assistant Professor of Economics, Department of Economics, University of Venice (Italy)

#### **Past Managerial Positions**

---

2009-2014	Chair of the Board of Directors, Università Ca' Foscari Venezia
2010-2012	Member of the Board of Directors, Generali Group
2009-2013	Member of the Board of Directors, Venice Gateway, Innovation and Science Park
2003–2005	Member of the Board of Directors, Arsenale SpA, Venice, Italy

#### **Past Scientific Activities**

---

2010-2013	President, Scientific Advisory Board, Fondazione Eni Enrico Mattei, Milan.
2006-2013	Member, Scientific Advisory Board, Eni Award
2005-2013	Director, Climate Impacts and Policy Division, EuroMediterranean Center on Climate Change, Lecce
2012-2013	Chairman, AERE and EAERE Selection Committee for the Fifth (2014) World Congress of Environmental Economists.
2006-2013	Member of the Advisory Board of the BP Chair on Sustainable Development, Universidad Pontificia Comillas, Madrid.
2007-2010	Member of the Scientific Committee of the Istituto di Economia e Politica dell'Energia e dell'Ambiente (IEFE), Bocconi University, Milan.
2006-2010	Member the Research Network on Sustainable Development (R2D2), Paris



Università  
Ca' Foscari  
Venezia

Dipartimento  
di Economia

- |             |  |
|-------------|--|
| 2006-2009   | Member of the Scientific Committee of the Kyoto Project of the Fondazione Lombardia Ambiente, Milan  |
| 2008-2009   | Member of the European Environmental Agency (EEA) High-Level Network of Environmental Economists   |
| 2008-2009   | Chairman, AERE and EAERE Selection Committee for the Fourth (2010) World Congress of Environmental Economists.   |
| 2006-2009   | Member of the the Climate Policy Network (CPN) a joint initiative of MIT, RFF and FEEM   |
| 2005-2009   | Member of the the Steering Committee of the Ca' Foscari - Harvard Summer School (CFHSS)  |
| 2003-2009   | Member of the Steering Committee, Center of Excellence for the Evaluation and Promotion of Sustainable Development in the Mediterranean Coastal Areas (CESD/IDEAS), Venice |
| 2006-2009   | Member of the Steering Committee of 'Euro Asian Research and Training on Climate Change Management (CLIMA)' project at the Venice International University.                |
| 2000-2009   | Consultant to the Economic Social Research Institute (ESRI), Cabinet Office, Japan.  |
| 2005-2006   | Member of the 6th Environment Action Programme Review Expert Panel of DG Environment, Bruxelles;   |
| 2001 - 2006 | Member of the Scientific Committee of Veneto Innovazione.  |
| 2001-2004   | Consultant to the World Bank for a project on water management   |
| 2001-2006   | Member of the Scientific Advisory Board of Veneto Innovazione, Italia  |
| 2002-2006   | Member of the Steering Committee of the Ecological and Environmental Economics Programme at the International Center of Theoretical Physics (ICTP), Trieste.               |
| 2004-2005   | Chairman, AERE and EAERE Selection Committee for the Third (2006) World Congress of Environmental Economists   |
| 2002-2006   | Member of the Steering Committee del Potsdam Institute for Climate Impact Research (PIK), Potsdam, Germany   |
| 2002-2005   | Member of the Executive Board of the Inter-University Nanotechnology Consortium (CIVEN)  |
| 2002-2005   | Member of the Steering Committee of European Forum for Integrated Environmental Assessment (EFIEA)   |
| 2002-2003   | Member of the Executive Board of the European Association on Environmental and Resource Economists.  |
| 2002        | Organisor of the 2002 Congress of the European Economic Association and of the Econometric Society, Venice, August 2002.   |
| 2001- 2007  | Member of Steering Committee of the European Climate Forum (ECF)   |
| 1999 - 2001 | Lead Author of the IPCC Third Assessment Report, Working Group III.  |
| 1998        | Organisor of the Third World Congress of Environmental Economics, Venice, June 1998  |
| 1992 -1997  | Founder (with Nicola Rossi and Domenico Sartore) and Leading Scientist, GRETA Associati  |



## National and International Research Projects

---

- *ROSE, Roadmaps Towards Sustainable Energy Futures*, a research project in cooperation with PIK and funded by the Mercator Foundation, Berlin, 2010-2013.
- *IFCG, International Forum on Climate Governance*, Ministero italiano dell'ambiente e della tutela del territorio e del Mare, 2007–2010
- *E=MC2, Energia da rifiuti in Italia: potenzialità di generazione e contributo alle politiche di mitigazione dei cambiamenti climatici*, finanziato da Ecocerved, 2009.
- *RECIPE, Report on Energy and Climate Policies in Europe*, Ras Allianz and WWF Germany, 2008–2009
- *TOCSIN – Technology-Oriented Cooperation and Strategies in India and China: Reinforcing the EU dialogue with Developing Countries on Climate Change Mitigation*, European Commission FP6, Scientific Support to Policy, 2007–2009.
- *Impatti dei Cambiamenti Climatici ed effetti sulla Biodiversità [CLIBIO – Impacts of climate change and biodiversity effects]*, finanziato da European Investment Bank, 2006–2009.
- *Aspetti dei cambiamenti climatici sulla Laguna di Venezia*, finanziato da CoRiLA, 2006–2009.
- *ITALY–USA 2 – Co-operation on Science and Technology of Climate Change*, Italian Ministero italiano dell'ambiente e della tutela del territorio, 2006–2008
- *La produzione dei rifiuti industriali in Italia: dinamiche economiche e scelte produttive*, finanziato da Unioncamere and Ecocerved, 2006–2008.
- *TRANSUST.SCAN – Scanning Policy Scenarios for the Transition to Sustainable Economic Structures*, European Commission, FP6, Scientific support to policies, 2006–2008.
- *CNCC, Climate Change Impacts and Adaptation Policies in Italy*, APAT, 2007.
- *La valutazione economica nei processi di riqualificazione urbana e ambientale*, finanziato da MIUR, 2005–2007.
- *Il riuso economico 'sostenibile' delle aree dismesse nel centro storico di Venezia*, finanziato da CoRiLA, 2004–2006.
- *ITALY-USA – Co-operation Italy-USA on Science and Technology of Climate Change*, Ministero italiano dell'ambiente e della tutela del territorio, 2003–2006.
- *EEE – Ecological and Environmental Economics*, FEEM-ICTP, 2002–2006.
- *TRANSUST – Modelling the Transition to Sustainable Economic Structures*, European Commission, FP5, Environment and Sustainable Development Programme, 2003–2005.
- *CAT&E – Concerted Action on Trade and the Environment*, European Commission, FP5, Energy, Environment and Sustainable Development Programme, Part A on Environment and Sustainable Development, 2002–2005.
- *EFIEA II – European Forum on Integrated Environmental Assessment*, European Commission, FP5, Environment and Climate Programme, Human Dimensions of Environmental Change, 2002–2005.
- *SOCEUM – Feasibility Study for the organisation of the Euro-Mediterranean Centre for Climate Change*, Italian Ministry of the Environment and Territory, 2003–2004.
- *Valutazione economica degli interventi di salvaguardia ambientale nella laguna di Venezia*, finanziato da CoRiLA, 2001–2004.
- *Città portuali, integrazione mediterranea e scenari di sostenibilità*, finanziato da CoRiLA, 2001–2004.





- *CATEP – Concerted Action for Tradable Emission Permits*, European Commission, FP5, Energy, Environment and Sustainable Development Programme, 2000–2003.
- *CLIMNEG – Adopting and distributing climate targets and policies: an integrated assessment of European interests and strategies in the climate negotiation process beyond Kyoto*, European Commission, FP4, Environment and Climate Programme, 1999–2001.
- *ACACIA – A Concerted Action towards a comprehensive Climate Impact and Adaptation Assessment for the European Union*, European Commission, FP4, Environment and Climate Programme, 1998–2000.
- *EFIEA – European Forum on Integrated Environmental Assessment*, European Commission, FP5, Environment and Climate Programme, 1997–2000.
- *EU Leadership – Strategies for European leadership of international climate and sustainability regimes*, European Commission, FP4, Environment and Climate Programme, 1996–1999.

## Editorial Boards

---

### *Journals*

- Editor - Review of Environmental Economics and Policy (Oxford University Press)
- Associate Editor - Environmental Modelling and Assessment (Springer Science)
  
- Climate Change Economics (World Scientific)
- Research in Economics (Elsevier)
- Integrated Assessment (Springer Science)
- International Environmental Agreements (Springer Science)
- International Yearbook of Environmental and Resource Economics (Edward Elgar)
- *E-economics* (Kiel Institute)
- Strategic Behavior and the Environment (Nowpublishers)
- Environmental Economics and Policy Studies (Springer)
- Equilibri (Il Mulino)
- Economics and Policy of Energy and the Environment (IEFE)

### *Publishers*

- Editor - the FEEM Series on the Economics of Sustainable Development with Edward Elgar

## Member of the following professional organisation

---

- Econometric Society (ES)
- European Economic Association (EEA)
- Association of Environmental and Resource Economists (AERE)
- European Association of Environmental and Resource Economists (EAERE)
- Italian Association of Environmental and Resource Economists (IAERE)
- Italian Society for Climate Sciences (SISC)
- International Association for Energy Economics (IAEE)

## Main Conferences Organised

---

2015 GGKP Annual Conference, Venice, 28-29 January 2015



Università  
Ca' Foscari  
Venezia

Dipartimento  
di Economia

- Coalition Theory Network 20<sup>th</sup> Anniversary Conference, Venice, 19-20 March 2015.
- Member of the Programme Committee of the Annual Meeting of the European Association of Environmental and Resource Economists, Helsinki, June 2015
- 2014 Co-Chair, Second Annual Conference of the Italian Society for Climate Sciences, Venice, 29-30 September 2014
- Member of the Programme Committee of the Fifth World Congress of Environmental Economists, Istanbul, 27-30 June 2014
- 2013 Member of the Scientific Committee of the First Conference of the Italian Society of Climate Sciences (IAERE), Lecce, 22-23 September 2013
- Member of the Scientific Committee of the First Conference of the Italian Association of Environmental and Resource Economists (SISC), Bologna, 11-12 February, 2013
- 2012 Chair of the Programme Committee of the 12th IAEE European Energy Conference, Venice, 9-12 September, Italy
- Member of the Scientific Committee of the 2012 Berlin Conference on the Human Dimensions of Global Environmental Change: "Evidence for Sustainable Development", Berlin, 5-6 October 2012.
- 2011 International Workshop on "Modeling and Policy of CO<sub>2</sub> Removal from the Atmosphere", Venice, 30<sup>th</sup>-31<sup>st</sup> May 2011, jointly organised with Princeton University.
- Member of the Programme Committee of the Annual Meeting of the European Association of Environmental and Resource Economists, Rome, June 2011.
- 2010 International Workshop on "Institutions for Climate Governance", Venice, 20<sup>th</sup>-21<sup>st</sup> May 2010
- International Workshop on "Reconciling Domestic Energy Needs and Global Climate Policy: Challenges and Opportunities for China and India", Venice, 15<sup>th</sup> March 2010
- Member of the Programme Committee of the Fourth World Congress of Environmental Economists, Montreal, June 2010.
- 2009 International Workshop on 'Coalitions for Climate Cooperation. A Game Theoretic Analysis of Post 2012 Climate Policy, Venice 15-16 June 2009.
- 2009 IEW - International Energy Workshop, Venice 17-19 June 2009.
- Scoping Meeting for the IPCC 5<sup>th</sup> Assessment Report, Venice, 13<sup>th</sup> - 17<sup>th</sup> July 2009
- Member of the Programme Committee of the Annual Meeting of the European Association of Environmental and Resource Economists, Amsterdam, June 2009.
- 2008 International Workshop on 'Post-2012 International Policy Architecture for Global Climate Change' co-organised with the Harvard Project on International Climate Agreements, Venice, 15-17 May 2008.
- 2007 Member of the Programme Committee of the Annual Meeting of the European Association of Environmental and Resource Economists, Thessaloniki, 28-30, June 2007.
- 2006 Member of the Programme Committee of the Third World Congress of Environmental Economists, Kyoto, 2-7 July 2006.



Università  
Ca' Foscari  
Venezia

Dipartimento  
di Economia

- 2005 Third FEEM-Stanford International Conference on 'International Environmental Agreements on Climate Change', Venice, 19-20 June 2005 (in cooperation with MIT and RFF).
- 2004 Co-organiser of the 6th FEEM Climate Policy Workshop and of the XXII MIT Global Change Forum, Venice, 9-11 June, 2004
- 2003 Chair of the Programme Committee of the 2003 Conferences of the U.S. Association of Environmental and Resource Economists.  
Member of the Programme Committee of the Annual Meeting of the European Economic Association, Stockholm, 22-27 August, 2003.
- 2002 VII Coalition Theory Workshop, Venice, 11-12 January 2002.  
Member of the Programme Committee of the Second World Congress of Environmental and Resource Economists, Monterey, 24-26 June 2002.  
Chair of the Organising Committee of the Annual Conferences of the Econometric Society and the European Economic Association, Venice, 22-28 June 2002.  
Co-organiser of the EAERE-FEEM-ICTG Summer School on Game Theory and the Environment, Lavagna (GE), 2-14 September, 2002.  
Member of the Programme Committee of the 2002 Conferences of the American Association of Environmental Economists.
- 2001 Member of the Programme Committee of the 2001 Conferences of the American Association of Environmental Economists.  
Organiser of the first EAERE-FEEM-VIU Summer School on Environmental Economics, Venice, 1-7 July, 2001.  
Second FEEM-Stanford International Conference on 'International Environmental Agreements on Climate Change', Venice, 8-9 September 2001.
- 2000 Chair of the FEEM-CAVA Conference on 'Voluntary Approaches, Market Structure and Competition', Milan, 28-29 May, 2000.  
Member of the Programme Committee of the Annual Meeting of the European Association of Environmental and Resource Economists, Crete, 24-26, June 2000.
- 1999 Chair of the Organising Committee of the EFIEA Policy Workshop on Climate Policies in Europe, Milan, 4-6 March, 1999.  
FEEM/NBER Conference on 'Distributional and Behavioural Responses to Environmental Policy', Milan, 11-12 June, 1999.  
Member of the Programme Committee of the Annual Meeting of the European Economic Association, Santiago de Compostela (Spain), 26-28 August, 1999.
- 1998 International Conference on 'Coalition Formation: Applications to Economic Issues', Venice, 8-10 January 1998.  
Chair of the Organising Committee of the First World Congress of Environmental and Resource Economists, Venice, 25-27 June 1998.
- 1997 First FEEM-Stanford International Conference on 'International Environmental Agreements on Climate Change', Venice, 6-7 May 1997.  
Member of the Programme Committee of the Annual Meeting of the European Economic Association, Toulouse (France), 28-30 August 1997.
- 1996 International Conference on 'Technology, Employment and Labour Markets', Athens, 16-18 May 1996  
Member of the Programme Committee of the Annual Meeting of the European Association of Environmental and Resource Economics, Lisbon, 26-29 June 1996



Università  
Ca' Foscari  
Venezia

Dipartimento  
di Economia

- International Conference on 'The Economics and Law of Voluntary Approaches', Venice, 19-21 November 1996.
- 1995 HCM workshop on 'Economic Instruments for the Protection of Natural Resources and the Environment', Venice, 12-13 May 1995.
- International Workshop on 'Transport Policies and the Environment', Venice, 10-11 November 1995
- 1994 IPCC workshop on 'Top-Down and Bottom-Up Models for Environmental Analysis', Milan, 27-29 April 1994.
- Member of the Programme Committee of the Annual Meeting of the International Institute of Public Finance, Harvard, 22-24 August 1994.
- HCM workshop 'The Design of Environmental Policy', Crete (Greece), 7-9 September 1994.
- International Workshop on 'Environment Taxation, Revenue Recycling and Unemployment', Milan, 16-17 December 1994.
- 1993 Member of the Programme Committee of the Annual Meeting of the European Association of Environmental and Resource Economists, Fontainebleau, 22-24 June 1993.
- Member of the Programme Committee of the Annual Meeting of the European Economic Association, Helsinki (Finland), 26-28 August 1993.
- 1992 Autumn School on Environmental Economics, 'Quantitative Methods in Environmental Economics', Venice (Italy), 28 September – 3 October 1992.
- International Conference on 'The International Dimension of Environmental Policy', Milan, 22-24 October 1992.
- International Conference on 'Modelling Environment-Economy Linkages', Milan, 3-4 December 1992.
- 1991 Autumn School on Environmental Economics, 'International Coordination of Environmental Policies', Venice (Italy), 30 September -5 October 1991.
- 1990 Annual Meeting of the European Association of Environmental and Resource Economics on 'Environmental Cooperation and Policy in the Single European Market', Venice, 17-20 April 1990.
- Member of the Programme Committee of the Annual Meeting of the European Economic Association, Lisbon (Portugal), 30.8-2-9, 1990.
- IEA Conference on 'Economics for the New Europe', Venice (Italy), 1-4 November 1990.
- 1988 International Conference on 'International Economic Policy Coordination', Aix-en-Provence (France), 24-25 June 1988.
- 1985 International Conference on 'Economic Policy and Control Theory', Venice (Italy), 28-31 January 1985.



## PUBLICATIONS

### Books and Special Issues

- Barrett, S., CARRARO, C. and J. de Melo (eds.) (2015), *Towards a Workable and Effective Climate Regime*, CEPR Press, London.
- CARRARO, C. (ed.) (2015), *Coalitions and Networks*, FEEM Press, Milan
- Bosetti, V., CARRARO, C., Massetti, E. and M. Tavoni (eds.) (2014), “*Climate Change Mitigation, Technological Innovation and Adaptation: A New Perspective on Climate Policy*”, Cheltenham: Edward Elgar. [ISBN-13: 978 1 84980 949 8].
- Edenhofer, O., C. CARRARO and J.C. Hourcade (eds.) (2012), *The Economics of Ambitious GHG Emission Reductions*, a special issue of *Climatic Change*.
- CARRARO, C. and E. Massetti (eds.) (2011), *Reconciling Domestic Needs and Global Climate Policy: Challenges and Opportunities for China and India*, a special issue of *International Environmental Agreements*.
- CARRARO, C. (ed.) (2009), *Cambiamenti climatici e strategie di adattamento in Italia. Una valutazione economica*, Bologna: Il Mulino. [ISBN: 8815126481 - ISBN-13: 9788815126481]
- Ellerman, A.D., Buchner, B. and C. CARRARO (eds.) (2007), *Allocations in the European Emissions Trading Scheme. Rights, Rents and Fairness*, Cambridge: Cambridge University Press. [ISBN-10: 0521875684 - ISBN-13: 978-0521875684]
- CARRARO C. and C. Egenhofer (eds.) (2007), *Climate and Trade Policy. Bottom-up Approaches Towards Global Agreement*, Cheltenham: Edward Elgar.[ISBN-13: 978 1 84720 227 7]
- CARRARO C. and V. Fragnelli (eds) (2004), *Game Practice and the Environment*, Cheltenham: Edward Elgar. [ISBN-13: 978 1 84376 685 8].
- CARRARO C. (ed.) (2003), *The Endogenous Formation of Economic Coalitions*, Cheltenham: Edward Elgar. [ISBN-13: 978 1 84376 265 2]
- CARRARO C. and C. Egenhofer (eds.) (2003), *Firms, Governments and Climate Policy: Incentive-Based Policies for Long-Term Climate Change*, Cheltenham: Edward Elgar. [ISBN-13: 978 1 84376 055 9]
- CARRARO C. (ed.) (2003), *Governing the Global Environment*, Cheltenham: Edward Elgar [ISBN-13: 978 1 84376 014 6].
- CARRARO C., R. Gerlagh, and B. van der Zwaan (eds.) (2002), *Endogenous Technological Change in Economy-Environment Modelling*, a special issue of *Resource and Energy Economics*.
- CARRARO C. and G.E. Metcalf (eds.) (2000), *Behavioral and Distributional Effects of Environmental Policy*, Chicago: Chicago University Press, 2000. [ISBN: 0-226-09481-2]
- CARRARO C. (ed.) (2000), *Efficiency and Equity of Climate Change Policy*, Dordrecht: Kluwer Academic Publisher. [ISBN: 0792362624 - ISBN-13: 9780792362623, 978-0792362623]
- CARRARO C. (ed.) (2000), *Integrating Climate Policies in a European Environment*, a special issue of *Integrated Assessment*, Dordrecht: Baltzer Publishers.



- CARRARO C. (ed.) (1999), *International Environmental Agreements on Climate Change*, Dordrecht: Kluwer Academic Publisher. [ISBN: 0792355156 - ISBN-13: 9780792355151, 978-0792355151]
- CARRARO C. and F. Leveque (eds.) (1998), *Voluntary Approaches in Environmental Policy*, Kluwer Academic Publisher: Dordrecht. [ISBN: 0792355164 - ISBN-13: 9780792355168, 978-0792355168]
- CARRARO C. and J.C. Hourcade (eds.) (1998), *Optimal Timing of Climate Change Policies*, a special issue of *Energy Economics*, Amsterdam: Elsevier.
- CARRARO C. and D. Siniscalco (eds.) (1997), *New Directions in the Economic Theory of the Environment*, Cambridge: Cambridge University Press. [ISBN: 9780521590891]
- CARRARO C. (ed.) (1997), *International Environmental Agreements: Strategic Policy Issues*, Cheltenham: Edward Elgar. [ISBN-13: 978 1 85898 524 4]
- CARRARO C. and M. Gambaro (1996), *Microeconomia alla prova*, Bologna: Il Mulino. [ISBN-13: 9788815056283 - ISBN:8815056289]
- C. CARRARO and A. Haurie (eds.) (1996), *Operation Research and Environmental Protection*, Dordrecht: Kluwer Academic Publisher, 1996. [ISBN: 0792337670]
- CARRARO C. and D. Siniscalco (eds.) (1996), *Environmental Fiscal Reform and Unemployment*, Kluwer Dordrecht: Academic Publisher. [ISBN: 0792337506 - ISBN-13: 9780792337508, 978-0792337508]
- CARRARO C. and M. Galeotti (1995), *Ambiente, Occupazione e Progresso Tecnico: un Modello per l'Europa*, Bologna: Il Mulino.
- CARRARO C., Y. Katsoulacos, and A. Xepapadeas (eds.) (1996), *Environmental Policy and Market Structure*, Dordrecht: Kluwer Academic Publisher. [ISBN: 0792336569 - ISBN-13: 9780792336563, 978-0792336563]
- C. CARRARO and J. Filar (eds.) (1995), *Control and Game Theoretic Models of the Environment*, Boston: Birckhauser. [ISBN: 0817638156 - ISBN-13: 9780817638153]
- CARRARO C., A. Haurie and G. Zaccour (eds.) (1994), *Environmental Management in a Transition to Market Economy: A Challenge to Governments and Business*, Montreal: Technip. [ISBN : 2-7108-0680-0]
- CARRARO C. (ed.) (1994), *Trade, Innovation, Environment*, Dordrecht: Kluwer Academic Publisher. [ISBN: 0792330331 - ISBN-13: 9780792330332, 978-0792330332]
- CARRARO C., F. Peracchi and G. Weber (eds.) (1993), *The Econometrics of Panels and Pseudo-Panels*, a special issue of the *Journal of Econometrics*, **59**(1-2), Amsterdam: North Holland.
- CARRARO C. and C. Graziano (1993), *Mercati Oligopolistici e Strategie dell'Impresa*, Bologna: Il Mulino [ISBN: 8815041222 - ISBN-13: 9788815041227]
- CARRARO C. and D. Siniscalco (eds) (1993), *The European Carbon Tax: an Economic Assessment*, Dordrecht: Kluwer Academic Publisher. [ISBN: 9780792325208]
- CARRARO C., D. Laussel, M. Salmon and A. Soubeyran (eds) (1991), *International Economic Policy Coordination*, Oxford: Basil Blackwell. [ISBN 0631174524]
- CARRARO C. (ed.) (1988), *Politica Economica e Teoria del Controllo*, Venezia: Cafoscarina Editrice.
- CARRARO C. and F. Giavazzi (eds) (1987), *Game Theory and Interdependence of Economic Policies*, a special issue of *Ricerche Economiche*, New York: Academic Press.



CARRARO C. and D. Sartore (eds) (1987), *Developments of Control Theory for Economic Analysis*, Dordrecht: Kluwer Academic Publisher. [ISBN: 9024733456 - ISBN-13: 9789024733453, 978-9024733453]

## Articles

---

### 2015

Alloisio, I and C. CARRARO (2015), 'Public Private Partnerships for energy infrastructure: a focus on the MENA region" in S. Caselli, G. Corbetta and V. Vecchi (eds), *Public Private Partnerships for Infrastructure and Enterprise Funding: Principles, Practices and Perspectives*, Chapter 9, New York: Palgrave Macmillan, forthcoming.

Brugiavini, A., CARRARO, C. and M. Kovacic (2015), "Academic Achievements: Grades versus Duration", *mimeo*.

CARRARO, C., Tavoni, M., Longden, T. and G. Marangoni (2013), "The Optimal Energy Mix in Power Generation and the Contribution from Natural Gas in Reducing Carbon Emissions to 2030 and Beyond", FEEM WP 2013.86, Milan, CEPR DP 9715, London, CESifo WP 4432, Munich, DP 2014-63, Harvard Project on Climate Agreements, Belfer Center for Science and International Affairs, Harvard Kennedy School.

CARRARO, C. (2015), "Will Fiscal Policy Help Us Move Towards a Green Economy?", *Global Policy*, February 2015.

CARRARO, C., Kolstad, C. D. and R.N. Stavins (2015), "Assessment and Communication of the Social Science of Climate Change: Bridging Research and Policy" (February 25, 2015). *Review of Environment, Energy and Economics* (Re3). Available at SSRN: <http://ssrn.com/abstract=2571321>.

CARRARO, C. and M. Ferranna (2015), 'International Climate Agreements with Optimal Mitigation and Adaptation Strategies', *mimeo*.

### 2014

CARRARO, C., De Cian, E. and M. Tavoni (2014), "Human Capital, Innovation and Climate Policy: An Integrated Assessment", *Environmental Modeling and Assessment*, April 2014, Volume 19, Issue 2, pp 85-98.

CARRARO, C. (2014), "International Environmental Cooperation", in Atkinson, G., Dietz, S., Agarwala, M. and E. Neumayer (eds.), *Handbook of Sustainable Development*, Edward Elgar Publishing, Cheltenham [ISBN 978 1 78254 469 2 ; e-book 978 1 78254 470 8].

CARRARO, C. (2014), "The New EU Climate and Energy Proposal: What are the Consequences for the Economy and Energy Markets?", *Global Policy*, November 2014.

CARRARO, C. (2014), "Guest Introduction", *Energy Transitions*.

CARRARO, C. (2014), "Il cambiamento climatico non è una questione ambientale ma una questione di sviluppo economico", *Equilibri*, 3/2014, dicembre, pp. 401-410, DOI: 10.1406/78601.

### 2013



- CARRARO, C., and E. De Cian (2013), "Factor-augmenting technical change in climate models: an empirical assessment", *Environmental Modelling and Assessment*, February 2013, Volume 18, Issue 1, pp 13-26.
- Bosetti V., C. CARRARO, E. De Cian, E. Massetti and M. Tavoni (2013), "Incentives and Stability of International Climate Coalitions: an Integrated Assessment", *Energy Policy*, Vol. 55, pp. 44-56, 04/2013.
- Bosello, F., CARRARO, C. and E. De Cian (2013), "Adaptation Can Help Mitigation: An Integrated Approach to Post-2012 Climate Policy", *Environment and Resource Economics*, volume 18, issue 03, pp. 270-290. Also CEPR Discussion Paper 8909. And re-published also in *Climate Change and the World Economy*, edited by David I. Stern and Frank Jotzo, Edward Elgar Publishing, Cheltenham, 2014.
- C. CARRARO, Marinella Davide, Valeria Barbi, Giacomo Marangoni (2013) "Science advancements, policy immobility: the two faces of climate (in)action", *Economics and Policy of Energy and the Environment*, n.3, pp 5-29.
- CARRARO C. and E. Massetti (2013), "International Climate Treaties and Coalition Building". In: Shogren, J.F., (ed.) *Encyclopedia of Energy, Natural Resource, and Environmental Economics*, Vol. 1, pp. 57-62 Amsterdam: Elsevier.
- Bosello F., C. CARRARO, E. De Cian (2013), "Climate Change Adaptation", in Lomborg, B. (ed.), *Global Problems, Smart Solutions. Costs and Benefits*, Cambridge, Cambridge University Press, pp 225-259. ISBN 9781107612211.
- CARRARO, C., Campagnolo, L., Eboli, F., Giove, S., Lanzi, E., Parrado, R., Pinar, M., Portale, E. (2013), "The FEEM Sustainability Index: An Integrated Tool for Sustainability Assessment" in M. G. Erechtkhoukova et al. (eds.), *Sustainability Appraisal: Quantitative Methods and Mathematical Techniques for Environmental Performance Evaluation*, EcoProduction, DOI: 10.1007/978-3-642-32081-1\_2, Springer-Verlag, Berlin.
- Campagnolo, L., CARRARO, C., Davide, M., Eboli, F., Lanzi, E., Parrado R. (2013) "Can Climate Policy Enhance Sustainability?", FEEM WP 2013.10, Milan.
- Bosello F., Campagnolo L., CARRARO, C., Eboli, F., Parrado, R. and E. Portale (2013), "Macroeconomic Impacts of the EU 30% GHG Mitigation Target", FEEM WP 2013.28, Milan.

## 2012

- CARRARO C. and E. Massetti (2012), "Beyond Copenhagen: A Realistic Climate Policy in a Fragmented World", *Climatic Change*, Vol. 110, Issue 3 (2012), pp. 523-542.
- Bosetti, V., CARRARO, C. and M. Tavoni (2012), "Timing of Mitigation and Technology Availability in Achieving a Low-Carbon World", *Environment and Resource Economics*, Volume 51, N.3, pp. 353-369.
- CARRARO, C., Edenhofer, O. and J.C. Hourcade (2012), 'On the Economics of Decarbonization in an Imperfect World', *Climatic Change* (2012), Vol 114, Issue 1, pp. 1-8. DOI 10.1007/s10584-012-0549-7
- CARRARO C., Favero, A. and E. Massetti (2012), "Investments and Public Finance in a Green, Low Carbon, Economy", in "Green Perspectives", edited by Brian P. Flannery and Richard S.J. Tol, *Energy Economics*, Volume 34, Supplement 1, pp. 15-28 (November 2012).
- CARRARO C. and E. Massetti (2012), "Energy and Climate Change in China", *Environment and Development Economics*, 1, 2013. Also in C. Meinert (ed.) "Nature, the Environment, and Climate Change in East Asia", Brill.
- Bosetti, V., S. Paltsev, J. Reilly and C. CARRARO (2012), "Emissions Pricing to Stabilize Global Climate", prepared for the IMF Workshop on Fiscal Policy and Climate Mitigation, September 16, 2011, Washington DC. Published in I. Parry and R. de





- Mooij (eds.), *Fiscal Policy to Mitigate Climate Change: A Guide for Policymakers*, IMF, Washington DC.
- CARRARO, C., Campagnolo, L., Eboli, F., Lanzi, E., Parrado, R., Portale, E. (2012) "Quantifying Sustainability: a New Approach and World Ranking", FEEM WP 2012.94, Milan.
- CARRARO, C. (2012), "A Globally Sharable Vision against Global Warming", presented at the 6<sup>th</sup> Shanghai Economic Forum, Shanghai, 26-28 May 2012.

## 2011

- Brau R., C. CARRARO (2011), 'The Design of Voluntary Agreements in Oligopolistic Markets', *Journal of Regulatory Economics*, 39 (2011): pp 111-142.
- CARRARO, C. and A. Sgobbi (2011), 'A Stochastic Multiple Players Multi-Issues Negotiation Model for the Piave River Basin', *Strategic Behaviour and the Environment*, Vol. 1: No 2 (2011), pp 119-150.
- Agrawala, S., Bosello F., C. CARRARO, K. de Bruin, E. De Cian, R. Dellink, E. Lanzi (2011), "Plan or React?: Analysis of Adaptation Costs and Benefits Using Integrated Assessment Models", *Climate Change Economics*, Volume 2, Issue 3 (August 2011), pp. 175-208; (also in *OECD Environment Working Papers*, No. 23, OECD Publishing).
- Bosetti, V., CARRARO, C., Duval, R. and M. Tavoni (2011), 'What should we expect from innovation? A model-based assessment of the environmental and mitigation cost implications of climate-related R&D', *Energy Economics*, 33 (2011) 1313–1320.
- Agrawala, S., Bosello F., C. CARRARO, E. De Cian, E. Lanzi (2011), "Adapting to Climate Change: Costs, Benefits and Modelling Approaches", *International Review of Environmental and Resource Economics*, Vol. 5: No 3 (2011), pp. 245-284. <http://dx.doi.org/10.1561/101.00000043>.
- CARRARO C. and E. Massetti (2011), *Editorial*, Special issue on "Reconciling Domestic Energy Needs and Global Climate Policy: Challenges and Opportunities for China and India", *International Environmental Agreements: Politics, Law and Economics*, vol. 11: No 3, pp 205-208.
- CARRARO, C. and E. Massetti (2011), "Technical Innovation, Economic Development and Implications for Energy Use and Emissions", *Energy Bulletin*, 2 (2011), pp 31-41.
- CARRARO, C. and E. Massetti (2011), "The Greening of Development" in *Frontiers in Development Policy*, World Bank, 2011.
- CARRARO, C., E. De Cian, L. Nicita (2011), 'Modeling Biased Technical Change. Implications for Climate Policy', in S. Dietz, J. Michie and C. Oughton (eds), *The Political Economy of the Environment*, Routledge, London.
- CARRARO, C. and A. Favero (2011), "Il cambiamento climatico: effetti economici e prospettive future", in *Quaderni di etica applicata*, Fondazione Lanza, Padova.
- CARRARO, C. (2011), "Energia e Ambiente" in *Energia*, XXXII, 1, pp. 29-33.

## 2010

- Bosello, F., CARRARO, C. and E. De Cian (2010), 'Climate Policy and the Optimal Balance between Mitigation, Adaptation and Unavoided Damage', *Climate Change Economics*, Vol. 1, No. 2 (2010), 1-22.



- CARRARO, C., De Cian, E., Nicita, L., Massetti, E. and E. Verdolini (2010), "Environmental Policy and Technical Change: A Survey", *International Review of Environmental and Resource Economics*, 2010, 4: 1–57.
- Bosello, F., CARRARO, C. and E. De Cian (2010), 'Market- and Policy-driven Adaptation'. in B. Lomborg, ed., *Smart Solutions to Climate Change*, Cambridge University Press, Cambridge, pp. 222-291.
- Bosetti V., C. CARRARO, A. Sgobbi, M. Tavoni (2010), 'Modelling Economic Impacts of Alternative International Climate Policy Architectures. A Quantitative and Comparative Assessment of Architectures for Agreement', in J. Aldy and R. Stavins (eds), *Post-Kyoto International Climate Policy: Implementing Architectures for Agreement*, Cambridge University Press, Cambridge: pp. 715-753. [ISBN: 9780521137850; 9780521129527].
- CARRARO, C. and E. Massetti (2010), "International Climate Change Negotiations: Lessons from Game Theory", in "*Climate Change Policies: Global Challenges and Future Prospects*", edited by Emilio Cerdá and Xavier Labandeira, Edward Elgar Publishing.
- CARRARO, C. (2010), "Biodiversità e politiche economiche" in *Protecta*, 11, Nov 2010, pp. 35-36.
- CARRARO, C., Crimi, J. and A. Sgobbi (2010), 'Gli impatti dei cambiamenti climatici in Italia: una valutazione economica', Chapter 19 in Artale, S. and S. Castellari (eds), *I cambiamenti climatici in Italia. Evidenze, vulnerabilità e impatti*, Bologna: Bononia University Press.
- Bosetti, V., CARRARO, C. and E. Massetti (2010), *Politiche e strategie economiche per il clima*, in *Opportunità e interdipendenze*, vol 4 di *Ecosphera*, edited by Niels Eldredge and Telmo Pievani, UTET, Torino. Also in *Eco-consigli. 100 azioni quotidiane per aiutare il pianeta*, UTET, Torino.
- CARRARO, C., Lanzi, E. and R. Parrado, 'Climate Policy and World Sustainability' in *Climate Science and Policy*, March 2010.
- Bortolotti, B. and C. CARRARO, 'Cambia il paradigma, cambia la misura?' in *Equilibri* 2010.01, Il Mulino.
- CARRARO, C., Campagnolo, L., Cruciani, C., Lanzi, E. and E. Portale, 'Un concetto difficile da quantificare', in *OIL*, September 2010.
- Bosello, F., Botteri, M., Campagnolo, L., CARRARO, C., Eboli, F., Medoro, M. and R. Parrado (2010), "Energia da rifiuti in Italia: potenzialità di generazione e contributo alle politiche di mitigazione dei cambiamenti climatici", *Rapporto Unioncamere*.
- CARRARO, C., Davide, M., Lanzi, E., Parrado, R. (2010), 'World sustainability in the climate policy sphere: A scenario assessment of different commitments for curbing CO2 emissions in a sustainability framework' in iEMSs 2010, "Modelling for Environment's Sake: Proceedings of the 5th Biennial Conference of the International Environmental Modelling and Software Society", Vol. 2, page 1310-1326 [ISBN: 978-889035741-1]

## 2009

- Bosetti V., C. CARRARO, E. Massetti, A. Sgobbi and M. Tavoni (2009), 'Optimal Energy Investment and R&D Strategies to Stabilise Atmospheric Greenhouse Gas Concentrations', *Resource and Energy Economics*, **31**( 2),123–137. Also in Lasry, Lautier, Fessler (eds), *The Economics of Sustainable Development*, Paris, Economica, 2010.
- Bosetti V., C. CARRARO, E. Massetti (2009), 'Banking Permits. Economic Efficiency and Distributional Effects', *Journal of Policy Modeling*, **31**(3), 382–403.



- CARRARO C., C. Marchiori, S. Oreffice (2009), 'Endogenous Minimum Participation in International Environmental Treaties', *Environment and Resource Economics*, **42**(3), 411–425. Also in *Game Theory and International Environmental Cooperation*, edited by M. Finus and A. Caparros, Edward Elgar, 2014.
- Bosetti V., C. CARRARO, M. Tavoni (2009), 'Climate Change Mitigation Strategies in Fast-Growing Countries: The Benefits of Early Action', *Energy Economics*, **31** (2009), 144-151.
- Bosetti V., CARRARO C., Tavoni M. (2009), 'Climate Policy After 2012. Timing, Technology, Participation', *CESifo Economic Studies*, **55** (2), 235-255, Oxford University Press, Oxford.
- Bosetti V., C. CARRARO, A. Sgobbi, M. Tavoni (2009), 'Delayed Action and Uncertain Targets. How Much Will Climate Policy Cost?', *Climatic Change*, **96** (3), 299-312. Also in: *Global governance: the G20 and a Global Green New Deal* by Barbier, Edward B. ed., Springer, 2011.
- CARRARO C. (2009), 'The Interaction between Carbon and Technology Policies', *European Review of Energy Markets*, **3**(2), 231-251.
- Masseti E., C. CARRARO, L. Nicita (2009), 'How Does Climate Policy Affect Technical Change? An Analysis of the Direction and Pace of Technical Progress in a Climate-Economy Model', *Energy Journal*, Volume **30** (Special Issue 2), October 2009, 7-38.
- CARRARO C. and A. Favero (2009), 'The Economic and Financial Determinants of Carbon Prices', *Czech Journal of Economics and Finance*, **5**, 2009.
- CARRARO C. (2009), 'The road to Copenhagen. What agreement can actually be effective and stable?', *CESifo Forum*, **3**, 2009.
- Bosetti V., CARRARO C., Tavoni M. (2009), 'A Chinese commitment to commit: can it break the negotiation stall?', *Climatic Change: Volume 97*, Issue 1 (2009), 297-303.
- Blanford, G., Bosetti, V., CARRARO C., Richels, R. Rutherford, T. and M. Tavoni (2009), "Breaking the Climate Stalemate", *Climate Science and Policy*, **1**, 2009. Also in *Vox*, December 2009.
- Bosetti V., C. CARRARO (2009), 'Investimenti e politiche per una riduzione delle emissioni di gas serra nel settore energetico', *L'Industria*, **1**(2009), 45–58.
- CARRARO C. and E. Massetti (2009), "2 Gradi di Separazione", *Quale Energia*, **5** (2009), pp. 21-23.
- CARRARO C. (2009), "Prima e dopo Copenaghen. Come affrontare i cambiamenti climatici?", *Equilibri*, **XIII**, n.3, pp 331-345.
- CARRARO C., Buchner B. (2009), 'Parallel climate blocs. Incentives to cooperation in international climate negotiations', in Guesnerie R. and Tulkens H. (eds.), *The Design of Climate Policy*, MIT Press, Cambridge, MA: pp. 137-164. [ISBN-10: 0262073021; ISBN-13: 9780262073028]
- CARRARO, C. and A. Sgobbi (2009), 'Modelling Negotiated Decision Making under Uncertainty: an Application to the Piave River Basin, Italy', in A. Dinar and J. Albiac (eds.), *Policy and Strategic Behavior in Water Resource Management*, Earthscan, London. [ISBN: 9781844076697].
- Bosetti V., C. CARRARO (2009), 'Transition to sustainability', in Bosetti V., Gerlagh R., Schleicher S. (eds.), *Modelling Transitions to Sustainable Development*, Edward Elgar, Cheltenham, UK.
- Bosetti V., C. CARRARO and M. Tavoni (2009), 'Innovation and Climate Mitigation: a Policy Appraisal', in Delgado, J. and Gardner, S. (eds.), *Beyond Copenhagen: A Climate Policymaker's Handbook*, Bruegel Publ., Brussels.
- CARRARO C. and A. Favero (2009), 'The Changing Climate: Economic Impacts and Perspectives for Future Economic Development', in M. Mascia and L. Mariani (eds), *Ethics and Climate Change. Scenarios for Justice and Sustainability*, CLUEP, Padua.



- Bosetti V., C. CARRARO, M. Galeotti (2009), 'An Endogenous Technical Change Model: FEEM-RICE', in: Bosetti V., Gerlagh R., Schleicher S. (eds.), *Modelling Transitions to Sustainable Development*, Edward Elgar, Cheltenham, UK..
- Edenhofer, O., C. CARRARO, J.-C. Hourcade, K. Neuhoff, G. Luderer, C. Flachsland, M. Jakob, A. Popp, J. Steckel, J. Strophschein, N. Bauer, S. Brunner, M. Leimbach, H. Lotze-Campen, V. Bosetti, E. de Cian, M. Tavoni, O. Sassi, H. Waisman, R. Crassous-Doerfler, S. Monjon, S. Dröge, H. van Essen, P. del Río, A. Türk (2009), "The Economics of Decarbonization. Report of the RECIPE project". Potsdam-Institute for Climate Impact Research: Potsdam.
- CARRARO C., J. Crimi e A. Sgobbi (2009), 'La valutazione economica degli impatti dei cambiamenti climatici in Italia e delle relative misure di adattamento', in C. CARRARO (ed.) *Cambiamenti climatici e strategie di adattamento in Italia. Una valutazione economica*, Bologna: Il Mulino. [ISBN: 8815126481 - ISBN-13: 9788815126481]
- CARRARO C., F. Bosello, and P.A.L.D. Nunes (eds.) (2009). 'Impacts of Climate Change and Biodiversity Effects'. Final Report, ix + 225 pages, European Investment Bank, Luxembourg.
- Bosetti V., C. CARRARO, M. Tavoni (2009), 'Delayed Participation of Developing Countries to Climate Agreements: Should Action in the EU and US be Postponed?', FEEM Nota di Lavoro 70.08, CEPR Working Paper 6967 and CESifo Discussion Paper 2445.
- Bosetti V., C. CARRARO, R. Duval, A. Sgobbi and M. Tavoni (2009), 'The role of R&D and technology diffusion in climate change mitigation: new perspectives using the WITCH Model', OECD Economics Department Working Paper n. 664, January 2009.
- Bosetti V., C. CARRARO, E. De Cian, R. Duval, E. Massetti and M. Tavoni (2009), 'The Incentives to participate in, and the Stability of, International Climate Coalitions: A Game-Theoretic Analysis using the WITCH Model', OECD Economics Department, Working Paper n. 702, July 2009.
- CARRARO C., Chiabai A., Croda E. Medoro, M and A. Stanchi (2009), 'La produzione di rifiuti industriali in Italia. Un'analisi a partire dal MUD', Department of Economics, University of Venice, Nota di Lavoro 07.09.
- CARRARO C. (2009), 'A general equilibrium analysis of climate change impacts in the MENA region', prepared for the MENA Climate Change Seminar Series at the World Bank, 3 March 2009.
- CARRARO C. (2009), 'Global warming and climate change: implications for EU policies and its budget', prepared for the BEPA Workshop on 'Globalisation, innovation and growth: strengthening the external dimension in the EU budget', Brussels, 5 March 2009.

## 2008

- CARRARO C., Sgobbi A. (2008), 'Modelling negotiated decision making in environmental and natural resource management', *Automatica*, **44**(6), 1488–1503.
- Bosetti V., CARRARO C., Massetti E., Tavoni M. (2008), 'International energy R&D spillovers and the economics of greenhouse gas atmospheric stabilization', *Energy Economics*, **30**(6), 2912–2929.
- CARRARO C., Chiabai A., Croda E. (2008), 'La produzione di rifiuti industriali in Italia. Un'analisi a partire dal MUD', *Politiche e Reti per lo Sviluppo*, **25**, Luglio-Settembre 2008.
- Bosetti, V., C. CARRARO, A. Sgobbi and M. Tavoni (2008), 'The Role of R&D and Innovation in Climate Change Mitigation', in OECD, *Report on The economics of climate change mitigation: policies and post-2012*, Paris: OECD, Chapter 4.



- CARRARO C., A. Haurie, R. Loulou, D. Reiner, Ph. Thalmann, M. Vielle, F. Vöhringer, L. Drouet, Dabo Guan, Wenying Chen, M. Labriet, A. Kanudia, P.R. Shukla, J.-P. Vial, A. Bernard, V. Bosetti, D. Yeung, (2008), 'Modelling Technology-Oriented Strategic Cooperation on Climate Change Mitigation between the EU, India and China', *TOCSIN Report 2008*.
- CARRARO C., Sgobbi A. (2008), 'Climate Change Impacts and Adaptation Strategies in Italy. An Economic Assessment', FEEM Nota di Lavoro 06.08 and CMCC Working Paper N. 15.

## 2007

- CARRARO, C., R. Stavins and C. Kolstad (2007), 'Introduction to the Review', *Review of Environmental Economics and Policy*, **1**, pp.1-4.
- CARRARO, C., C. Marchiori and A. Sgobbi (2007), 'Negotiating on Water. Insights from Non-cooperative Bargaining Theory', *Environment and Development Economics*, Vol. 12, pp. 1–21.
- Buchner B., C. CARRARO (2007), 'Regional and Sub-global Climate Blocs. A Cost-benefit Analysis of Bottom-up Climate Regimes', in C. CARRARO and C. Egenhofer, eds., *Climate and Trade Policy. Bottom-up Approaches Towards Global Agreement*, E. Elgar.
- CARRARO, C., C. Egenhofer and N. Fujiwara (2007), 'Bottom-up Approaches towards a Global Climate Agreement. An Overview', in C. CARRARO and C. Egenhofer, eds., *Climate and Trade Policy. Bottom-up Approaches Towards Global Agreement*, E. Elgar.
- CARRARO, C. (2007), 'Incentives and Institutions. A Bottom-up Approach to Climate Policy', in J. Aldy and R. Stavins, eds, *Architectures for Agreement: Addressing Global Climate Change in the Post-Kyoto World*, Cambridge University Press.
- Buchner B., C. CARRARO (2007), 'Participation Incentives and Technical Change. From Top-Down to Bottom-Up Climate Agreements', in C. CARRARO and C. Egenhofer, eds., *Climate and Trade Policy. Bottom-up Approaches Towards Global Agreement*, E. Elgar.
- CARRARO, C. (2007), 'Innovació tecnològica i sostenibilitat ambiental', in *Informe Econòmic i Social de les Illes Balears*, Sa Nostra, pp.433-446.
- Buchner B., C. CARRARO, D. Ellerman (2007), 'The Allocation of European Union Allowances. Lessons, Unifying Themes and General Principles', MIT Global Change Forum, Report N. 140; in *Allocations in the European Emissions Trading Scheme. Rights, Rents and Fairness*, edited by Ellerman, A.D., Buchner, B. and C. CARRARO, Cambridge University Press.
- Ellerman, A.D., Buchner, B. and C. CARRARO (2007), 'The EU ETS allocation process: an overview', in A.D. Ellerman, B. Buchner and C. CARRARO (eds), *Allocations in the European Emissions Trading Scheme. Rights, Rents and Fairness*, Cambridge: Cambridge University Press, pp. 3-12 [ISBN 978-0-521-87568-4]
- CARRARO, C., and C. Egenhofer (2007), 'Bottom-up approaches to climate change control: some policy conclusions', in C. CARRARO and C. Egenhofer, eds., *Climate and Trade Policy. Bottom-up Approaches Towards Global Agreement*, Cheltenham, UK and Northampton, MA, USA, E. Elgar, pp. 116-120 ISBN: 978-1-8472-227-7
- CARRARO, C. (2007), 'Climate policy in the post-Kyoto world. Incentives, institutions and equity', paper presented at the XIII Conference of the Parties, Bali, Indonesia, December 2007.



Aldy J.E., C. CARRARO, R.N. Stavins, W.A. Pizer (2007), 'Architectures for Agreement: Issues and Options for Post-2012 International Climate Change Policy', paper presented at the XIII Conference of the Parties, Bali, Indonesia, December 2007.

## 2006

Bosetti V., CARRARO C., M. Galeotti, E. Massetti, M. Tavoni (2006), 'WITCH: A World Induced Technical Change Hybrid Model', *The Energy Journal*, **27**, Special Issue No. 2, 13–38.

CARRARO C., J. Eyckmans and M. Finus (2006), 'Optimal Transfers and Participation Decisions in International Environmental Agreements', *Review of International Organizations*, **1**(4), 379–396. Also in *Game Theory And International Environmental Cooperation: Essential Readings*, edited by Michael Finus and Alejandro Caparrós, Edward Elgar, Cheltenham.

Bosetti V., C. CARRARO, M. Galeotti (2006), 'The Dynamics of Carbon and Energy Intensity in a Model of Endogenous Technical Change', *Energy Journal* (2006), **27**, Special Issue No. 1, 191–206.

Buchner B., C. CARRARO (2006), 'US, China and the Economics of Climate Negotiations', *International Environmental Agreements. Politics, Law and Economics* (2006), **6**(1), 63–89.

CARRARO C., M. Grubb, J. Schellnhuber (2006), 'Technological Change for Atmospheric Stabilization' *Energy Journal*, **27**, 1–16.

Brau R., CARRARO (2005), 'The Economic Analysis of Voluntary Approaches to Environmental Protection', in K. Deketelaere, L. Kreiser, J. Milne, H. Ashiabor and A. Cavaliere, eds., *Critical Issues in Environmental Taxation: International and Comparative Perspectives*, Richmond Law and Tax, London.

Bosetti V., C. CARRARO, M. Galeotti (2006), 'Stabilisation Targets, Technical Change and the Macroeconomic Costs of Climate Change Control', FEEM Nota di Lavoro 2.2006.

## 2005

Buchner B, C. CARRARO (2005), 'Modelling Climate Policy. Perspectives on Future Negotiations', *Journal of Policy Modelling*, **27**(6), 711–732.

CARRARO C., A. Soubeyran (2005), 'Labour Demand with Heterogeneous Workers: Migrations and Unemployment', *Research in Economics*, **59**(2), 119–136.

Buchner B., C. CARRARO (2005), 'Economic and Environmental Effectiveness of a Technology-based Climate Protocol', *Climate Policy*, **4**(3), 229–248.

Buchner, B., CARRARO C., I. Cersosimo and C. Marchiori (2005), 'Back to Kyoto? US Participation and the Linkage between R&D and Climate Cooperation', in A. Haurie and L. Viguiere, eds., *Coupling Climate and Economic Dynamics*, Kluwer Academic Publishers, 2005, pp. 173-204.

CARRARO C., C. Marchiori and A. Sgobbi (2005), 'Advances in Negotiation Theory: Bargaining, Coalitions and Fairness', FEEM Nota di Lavoro 66.05 and World Bank Working Paper 3642.

## 2004

CARRARO C. (2004), 'Institution Design for Managing Global Commons', in G. Demange, D. Ray and M. Wooders, eds., *Group Formation in Economics. Networks, Clubs and Coalitions*, Cambridge University Press, 2004.





- Bosello F., B. Buchner, C. CARRARO, D. Raggi (2004), 'Can Equity Enhance Efficiency? Some Lessons from Climate Negotiations', in C. CARRARO and V. Fragnelli, eds., *Game Practice and the Environment*, E. Elgar, 2004.
- CARRARO C., C. Marchiori (2004), 'Endogenous Strategic Issue Linkage in International Negotiations', in C. CARRARO and V. Fragnelli, eds., *Game Practice and the Environment*, E. Elgar, 2004.
- Brau R., CARRARO C. (2004), 'Voluntary Approaches as Climate Policy Tools: Competition Issues and the Role of Market Structure', in *Voluntary Approaches in Climate Policy*, edited by A. Baranzini and P. Thalmann, E. Elgar, 2004, pp. 89-104.
- Buchner B., CARRARO C. (2004), 'Emission Trading Regimes and Incentives to Participate in International Climate Agreements', *European Environment*, Volume 14, Issue 5 (September/October 2004), pp. 276-289.
- CARRARO C., M. Galeotti (2004), 'Does Endogenous Technical Change Make a Difference in Climate Change Policy Analysis? A Robustness Exercise with the FEEM-RICE Model', FEEM Nota di Lavoro 152.04.

### 2003

- CARRARO C., D. Siniscalco (2003), 'Science vs. Profit in Research', *Journal of the European Economic Association*, **2-3**, 576-590
- CARRARO C., R. Gerlagh and B. Van der Zwaan (2003), 'Endogenous Technological Change and the Environment', *Resource and Energy Economics*, **25**(1), 1-10.
- Buchner B., F. Bosello, C. CARRARO (2003), 'Equity, Development and Climate Change Control', *Journal of the European Economic Association*, **2-3**, 601-611. Also in *Game Theory And International Environmental Cooperation: Essential Readings*, edited by Michael Finus and Alejandro Caparrós, Edward Elgar, Cheltenham.
- Buonanno P., C. CARRARO, M. Galeotti (2003), 'Endogenous Induced Technical Change and the Costs of Kyoto', *Resource and Energy Economics*, **25**(1), 11-34.
- CARRARO C. (2003), 'International Regimes and Policy Strategies for Climate Change Control', in L. Marsiliani, M. Rauscher and C. Whitagen, eds., *Environmental Policy in a International Perspective*, Kluwer Academic Pub., 2003.
- CARRARO C. (2003), 'Global Governance for Sustainable Development', in C. CARRARO, ed., *Governing the Global Environment*, E. Elgar, 2003.
- CARRARO C., M. Galeotti (2003), 'The Future Evolution of the Kyoto Protocol. Costs, Benefits, Incentives to Ratification and New International Regimes', in *Firms, Governments and Climate Policy: Incentive-Based Policies for Long-Term Climate Change*, edited by C. CARRARO and C. Egenhofer, Edward Elgar, Cheltenham, 2003.
- CARRARO C. M. Galeotti (2003), 'Traditional Environmental Instruments, Kyoto Mechanisms, and the Role of Technical Change', in *Firms, Governments and Climate Policy: Incentive-Based Policies for Long-Term Climate Change*, edited by C. CARRARO and C. Egenhofer, Edward Elgar, Cheltenham, 2003.
- CARRARO C. (2003), 'International Environmental Negotiations', in 'International Relations', edited by J. Wiener and R. Schriener, *Encyclopedia of Life Support Systems*, Developed under the Auspices of UNESCO, EOLSS Publishers, Oxford.
- CARRARO C., C. Marchiori (2003), 'Stable Coalitions', in C. CARRARO, ed., *The Endogenous Formation of Economic Coalitions*, E. Elgar: Cheltenham.
- CARRARO C. (2003), 'Climate Policy – Where to Go?', invited lecture at the XXI MIT Global Change Forum, Cambridge, MA, 9-10 October 2003.
- CARRARO C. (2003), 'Reflections on the Future of the Kyoto Protocol', invited lecture at the United Nations University Workshop on 'Regionalism and Globalism in Climate Policy', Montecatini, 25 September 2003.



- CARRARO C. (2003), 'Challenges and Paradoxes in the Economics of Climate Change', invited keynote plenary lecture at the 2003 EAERE Annual Conference, Bilbao, 28-30 June 2003.
- CARRARO C., A. Lanza and V. Papponetti (2003), 'One Thousand Working Papers', FEEM Nota di Lavoro 1000.03,
- Buchner B., CARRARO C. (2003), 'China and the Evolution of the Present Climate Regime', FEEM Nota di Lavoro 103.03.

## 2002

- CARRARO C. (2002), 'Climate Change Policy. Models, Controversies and Strategies' in the *Yearbook of Environmental Economics 2002/2003* edited by H. Folmer and T. Tietenberg, E. Elgar, 2002.
- Buchner B., C. CARRARO, I. Cersosimo (2002), 'Economic Consequences of the US Withdrawal from the Kyoto Protocol', *Climate Policy*, **76**(2002), 1-20.
- Buchner B., CARRARO C., I. Cersosimo, C. Marchiori (2002), 'Prospective Climate Regimes. A Theoretical and Empirical Assessment', invited lecture presented at the 2<sup>nd</sup> World Congress of Environmental Economists, Monterey, 24-26 June, 2002.
- CARRARO C., C. Jaeger, M. Leimbach, K. Hasselmann, J.C. Hourcade, R. Klei (2002), 'Integrated Assessment Modelling: Modules for Cooperation' FEEM Working Paper No. 53.02.

## 2001

- Bosello F., C. CARRARO, (2001), 'Recycling Energy Taxes. Impacts on a Disaggregated Labour Market', *Energy Economics*, **23**(5), 569-594.
- Buonanno P., C. CARRARO, E. Castelnovo, M. Galeotti (2001), 'Emission Trading Restrictions with Endogenous Technological Change', *International Environmental Agreements. Politics, Law and Economics*, **2**, 1-17.
- Bosello F., C. CARRARO, M. Galeotti (2001), 'The Double Dividend Issue. Modelling Strategies and Empirical Findings', *Environment and Development Economics*, **6**, 9-45.
- CARRARO C., D. Siniscalco (2001), 'Transfers, Commitments and Issue Linkage in International Environmental Negotiations', in A. Ulph, ed., *Environmental Policy, International Agreements and International Trade*, Oxford, Oxford University Press.
- Botteon M., C. CARRARO (2001), 'Environmental Coalitions with Heterogeneous Countries: Burden Sharing and Carbon Leakage', in A. Ulph, ed., *Environmental Policy, International Agreements and International Trade*, Oxford, Oxford University Press.
- CARRARO C. (2001), 'Environmental Technological Innovation and Diffusion', in H. Folmer, L. Gabel, S. Gerking and A. Rose, eds., *Frontiers of Environmental Economics*, E. Elgar: Cheltenham, 2001.
- CARRARO C. (2001), 'Costs, Structure and Equity of International Regimes for Climate Change Mitigation', FEEM Working Paper N. 61.00, Milan. Published as Section 2, Chapter 10 of the *IPCC Third Assessment Report, Volume 3: Mitigation*, Cambridge, Cambridge University Press, 2001.
- Brau R., C. CARRARO (2001), 'Are VAs a Threat to Competition?', in C. Higley and F. L eveque, *Environmental Voluntary Approaches: Research Insights for Policymakers*, FEEM Books, Milan, 2001.
- Brau R., CARRARO C., G. Golfetto (2001), 'Participation Incentives and the Design of Voluntary Agreements', FEEM Working Paper 19.2001.





CARRARO C., A. Pomé and D. Siniscalco (2001), 'Science vs. Profit in Research. Lessons from the Human Genome Project' presented at the 2<sup>nd</sup> FEEM/Beijer international conference on 'Knowledge as an Economic Good', Palermo, 20-21 April, 2001 and at the 17<sup>th</sup> Congress of the European Economic Association, Venice, 22-24 August 2002; FEEM Working Paper 60.2001 and CEPR Working Paper 2890.

## 2000

- CARRARO C. A. Gorla, R. Tol (2000), 'Integrating Climate Policies in the European Environment', *Change*, **2**, 121-126.
- CARRARO C. (2000), 'Climate Policy. An Integrated Assessment of International and Distributional Issues', *Integrated Assessment*, **2**, 140-150.
- CARRARO C., A. Soubeyran (2000), 'R&D Cooperation, Innovation Spillovers and Firm Location in a Model of Environmental Policy', in E. Petrakis, E. Sartzetakis and A. Xepapadeas, eds., *Environmental Regulation and Market Structure*, E. Elgar: Cheltenham.
- Buonanno P., C. CARRARO, E. Castelnovo, M. Galeotti (2000), 'Efficiency and Equity of Emission Trading with Endogenous Environmental Technical Change', in C. CARRARO, ed., *Efficiency and Equity of Climate Change Policy*, Kluwer Academic Publishers: Dordrecht.
- CARRARO C. (2000), 'Efficiency and Equity of Climate Change Policy. An Introduction', in C. CARRARO, ed., *Efficiency and Equity of Climate Change Policy*, Kluwer Academic Publishers: Dordrecht, 2000.
- CARRARO C. (2000), 'Modelli di analisi ambientale e politiche di controllo', Chapter 9 in U. Colombo, A. Federico and G. Lanzavecchia, eds., *Lo Sviluppo Sostenibile*, ENEA, Rome, 2000.
- CARRARO C. (2000), 'The Economics of International Coalition Formation and EU Leadership', in M. Grubb and J. Gupta, eds., *Climate Change and European Leadership*, Kluwer Academic Pub.: Dordrecht.
- CARRARO C., G. Metcalf (2000), 'Behavioural and Distributional Effects of Environmental Policy. Introduction', in C. CARRARO and G. Metcalf, eds., *Behavioral and Distributional Effects of Environmental Policy*, Chicago University Press: Chicago.
- CARRARO C. (2000), 'Environmental Technological Innovation and Diffusion: Model Analysis', in J. Hemmelskamp, K. Rennings and F. Leone, eds., *Innovation-Oriented Environmental Regulation*, Physica-Verlag, Heidelberg.
- CARRARO C. (2000), 'Roads Towards International Environmental Agreements', in H. Siebert, ed., *The Economics of International Environmental Problems*, Mohr Siebeck: Tübingen.
- CARRARO C. A. Gorla (2000), 'Integrating Climate Policies in the European Environment. A Policy Report', in C. CARRARO, ed., *Efficiency and Equity of Climate Change Policy*, Kluwer Academic Publishers: Dordrecht.

## 1999

- Barba Navaretti G, C. CARRARO (1999), 'From Learning to Partnership: Multinational R&D Cooperation in Developing Countries' *Economics of Innovation and New Technology*, **8**, 137-173.
- Brau R., C. CARRARO (1999), 'Voluntary Approaches, Market Structure and Competition', FEEM Working Paper N. 53.99, Milan. A revised version, titled 'Voluntary Approaches as Climate Policy Tools: Competition Issues and the Role of



- Market Structure', is published in *Voluntary Approaches in Climate Policy*, edited by A. Baranzini and P. Thalmann.
- CARRARO C. (1999), 'Environmental Conflict, Bargaining and Cooperation', Ch. 28 in J. Van den Bergh, ed., *The Handbook of Environmental and Resource Economics*, E. Elgar: Cheltenham, 1999.
- CARRARO C. (1999), 'Imperfect Markets and Environmental Policy Instruments', Ch. 15 in J. Van den Bergh, ed., *The Handbook of Environmental and Resource Economics*, E. Elgar: Cheltenham, 1999.
- CARRARO C. (1999), 'The Rational and Potential of Voluntary Approaches' in C. CARRARO and F. Leveque, eds., *Voluntary Approaches in Environmental Policy*, Kluwer Academic Pub.: Dordrecht, 1999.
- CARRARO C. (1999), 'The Structure of International Agreements on Climate Change', in C. CARRARO, ed., *International Environmental Agreements on Climate Change*, Kluwer Academic Pub.: Dordrecht, 1999, pp. 9-26.
- CARRARO C., F. Moriconi, S. Orefice (1999), ' $\alpha$ -Rules and Equilibrium Endogenous Coalitions', presented at the 4<sup>th</sup> CTN Workshop on 'Coalition Formation', Aix-en-Provence, 8-10.1.1999 and at the Oslo EAERE Conference, 24-26 June 1999; A revised version is published as 'Endogenous Minimum Participation in International Environmental Treaties', FEEM Nota di Lavoro 113.03 and CEPR DP 4281.
- CARRARO C., C. Deissenberg, V. Gurman, H. Ryumina (1999), 'A General Framework for Regional Sustainable Development in NIS Provinces: Model Structure and Optimisation Procedure', report prepared for the EU ACE-TACIS Program, February 1999.

## 1998

- CARRARO C., D. Siniscalco (1998), 'International Environmental Agreements: Incentives and Political Economy', *European Economic Review*, **42**(3-5), 561-572.
- CARRARO C. (1998), 'New Economic Theories: Impacts on Environmental Economics', *Environmental and Resource Economics*, **11**(3-4), 365-381.
- M. Boetti, M. Botteon, C. CARRARO, A. Soubeyran (1998), 'On the Effects of Industrial, Trade and Environmental Policies on the Location Choices of Firms', *Revue d'Economie Industrielle*, **83**, 63-80.
- CARRARO C. (1998), 'Environmental Fiscal Reform and Employment: an Overview', *International Journal of Development Planning Literature*, **13** (2), 147-160.
- CARRARO C., J.-C. Hourcade (1998), 'Climate Modelling and Policy Strategies. The Role of Technical Change and Uncertainty', *Energy Economics*, Nos. 5-6, 463-473.
- CARRARO C. (1998), 'Beyond Kyoto: A Game Theoretic Perspective', in the *Proceedings of the OECD Workshop on 'Climate Change and Economic Modelling. Background Analysis for the Kyoto Protocol'*, Paris, 17-18.9, 1998.
- Bosello F., C. CARRARO, C. Kemfert (1998), 'Advances of Climate Modelling for Policy Analysis' in the *Proceedings of the ENEA Symposium on Energy and the Environment*, Rome, 12-13.10, 1998.
- CARRARO C. (1998), 'Efficacia e costi delle politiche di riduzione dei gas di serra' in the *Atti della Conferenza Nazionale per l'Energia e l'Ambiente*, vol II, 33-39, Fabiano Editore.
- CARRARO C. (1998), 'Politiche ambientali e strategie d'impresa' in *Le imprese italiane di fronte alla regolamentazione*, a cura di M. Arsì e G. de Caprariis, Il Mulino, Bologna.
- M. Botteon, C. CARRARO (1998), 'Strategies for Environmental Negotiations: Issue Linkage with Heterogeneous Countries', in N. Hanley and H. Folmer, eds., *Game Theory and the Environment*, E. Elgar, Cheltenham.



- CARRARO C., M. Galeotti (1998), 'Environmental Fiscal Reforms in a Federal Europe', in J. Braden and S. Proost, eds., *Climate Change, Transport and Environmental Policy: Empirical Applications in a Federal System*, Edward Elgar, Cheltenham.
- CARRARO C. (1998), 'Effectiveness of the Internal Market Program on EU Economic Development', published as Chapter 3 and 4 of the special issue on 'Trade, Labour and Capital Flows: the Less Developed Regions' of the *Single Market Review*, Earthscan, London.
- CARRARO C., M. Manente (1998), 'STREP: un modello di previsione dei flussi turistici internazionali per regione', *Statistica*, **58**(1), 18-33.
- CARRARO C., F. Moriconi (1998), 'Endogenous Formation of Environmental Coalitions', presented at the 3<sup>rd</sup> CTN Workshop on 'Coalition Formation: Applications to Economic Issues', Venice, 8-10.1.98. A revised version is published as C. CARRARO, C. Marchiori (2003), 'Stable Coalitions', in C. CARRARO, ed., *The Endogenous Formation of Economic Coalitions*, E. Elgar: Cheltenham.
- CARRARO C., F. Moriconi (1998), 'International Games on Climate Change Control', FEEM Working Paper 56.98.

## 1997

- CARRARO C. (1997), 'Modelling International Policy Games: Lessons from European Monetary Coordination', *Empirica*, **23**, 163-177.
- CARRARO C., M. Galeotti (1997), 'On the Benefits of Environmental Fiscal Reforms in an Integrated Europe', *Review of International Economics*, **2**, 111-133.
- CARRARO C., M. Galeotti (1997), 'Economic Growth, International Competitiveness and Environmental Protection: R&D and Innovation Strategies with the WARM Model', *Energy Economics*, **19**(1), 2-29.
- CARRARO C. (1997), 'Induced Technical Change in Environmental Models: Theoretical Results and Implementations', presented at the International Workshop on 'Induced Technological Change and the Environment'; IIASA, 26-27.6.97. A revised version is published as 'Environmental Technological Innovation and Diffusion', in H. Folmer, L. Gabel, S. Gerking and A. Rose, eds., *Frontiers of Environmental Economics*, E. Elgar: Cheltenham.
- M. Boetti, M. Botteon, C. CARRARO, A. Soubeyran (1997), 'Economic Geography and Environmental Innovation: A Simulation Analysis of the Effects of Environmental Dumping', prepared for the DGXII - Environment Report on *Environmental Policy, Technological Innovation and Firms' Competitiveness in Oligopolistic Industries*, CEC, Bruxelles.
- CARRARO C., M. Galeotti (1997), 'Voluntary Agreements: Macroeconomic Impacts on Growth, Technical Progress and Environmental Protection', in *Le Progrès Technologique pour la Compétitivité et l'Emploi: le Cas Energie-Environnement*, n 39, Juin, COE-CCIP, Paris.
- CARRARO C., D. Siniscalco (1997), 'The International Protection of the Environment: Voluntary Agreements among Sovereign Countries', in Dasgupta, P and K.G. Maler, *The Economics of Transnational Commons*, Clarendon Press, Oxford.
- CARRARO C., D. Siniscalco (1997), 'Theoretical Frontiers of Environmental Economics', in C. CARRARO and D. Siniscalco, eds., *New Directions in the Economic Theory of the Environment*, Cambridge University Press, Cambridge.
- CARRARO C. (1997), 'Policy Instruments for the Global Environment' in B. Flannery, K. Kolhase and D. LeVine, eds., *Critical Issues in the Economics of Climate Change*, Ipieca Pub., London.



- CARRARO C., D. Siniscalco (1997), 'R&D Cooperation and the Stability of International Environmental Agreements', in C. CARRARO, ed., *International Environmental Negotiations: Strategic Policy Issues*, Edward Elgar, Cheltenham.
- M. Botteon, C. CARRARO (1997), 'Burden-Sharing and Coalition Stability in Environmental Negotiations with Asymmetric Countries', in C. CARRARO, ed., *International Environmental Negotiations: Strategic Policy Issues*, Edward Elgar, Cheltenham.
- CARRARO C., M. Manente (1997), 'La modellistica econometrica dei flussi turistici internazionali: alcune indicazioni metodologiche', *Statistica*, **57**(4), 499-513.
- CARRARO C., E. Rettore and M. Schenkel (1997), 'The Female Labour Market in Italy: Evidence from Regional and Sectoral Data', presented at the EALE Conference, Aarhus, 26-27 September, 1997. FEEM Working Paper 18.97.

## 1996

- CARRARO C., M. Galeotti (1996), 'WARM: A European Model for Energy and Environmental Analysis', *Environmental Modelling and Assessment*, **1**, 171-189.
- CARRARO C., M. Gallo and M. Galeotti (1996), 'Environmental Taxation and Unemployment: Some Evidence on the Double Dividend Hypothesis in Europe', *Journal of Public Economics*, **6**, 148-182.
- CARRARO C., A. Soubeyran (1996), 'Environmental Taxation and Employment in a Multi-Sector General Equilibrium Model', in C. CARRARO and D. Siniscalco, eds., *Environmental Fiscal Reform and Unemployment*, Dordrecht: Kluwer Academic Publishers.
- CARRARO C., A. Soubeyran (1996), 'Environmental Feedbacks and Optimal Taxation in Oligopoly', in A. Xepapadeas, ed., *Economic Policy for the Environment and Natural Resources*, E. Elgar: Cheltenham.
- CARRARO C., A. Soubeyran (1996), 'Environmental Policy, Market Share, and Profits in Oligopoly', in C. CARRARO, Y. Katsoulacos, and A. Xepapadeas, eds., *Environmental Policy and Market Structure*, Kluwer Academic Publishers.
- CARRARO C. (1996), 'Environmental Fiscal Reform and Employment: an Overview', presented at the UNESCO International Congress on Environment and Climate, Rome, March 4-8, 1996. FEEM Working Paper 80.96, Milan. A revised version is published in the *International Journal of Development Planning Literature*, and in S.B. Dahiya, ed., *The Current State of Economic Science*, Spellbound Pubns.
- CARRARO C., M. Manente (1996), 'The TRIP and STREP Forecasting Models of Tourism Flow: from World-wide to Regional Forecasts for Italy', presented at the AEA Conference on 'The Economics of Tourism', Les Diablerets. FEEM Working Paper 79.96.
- CARRARO C., D. Siniscalco (1996), 'Voluntary Agreements in Environmental Policy: a Theoretical Appraisal', in A. Xepapadeas, ed., *Economic Policy for the Environment and Natural Resources*, E. Elgar: Cheltenham.
- CARRARO C., A. Soubeyran (1996), 'Environmental Policy and the Choice of Production Technology', in C. CARRARO, Y. Katsoulacos, and A. Xepapadeas, eds., *Environmental Policy and Market Structure*, Kluwer Academic Publishers.

## 1995

- CARRARO C., G. Topa (1995), 'Environmental Taxation and Innovation', in C. CARRARO e J. Filar, eds., *Game-Theoretic Models of the Environment*, Birckhauser: Boston.



- CARRARO C., D. Siniscalco (1995), 'Policy Coordination for Sustainability: Commitments, Transfers, and Linked Negotiations', in I. Goldin and A. Winters, eds., *The Economics of Sustainable Development*, Cambridge University Press.
- CARRARO C. (1995), 'Technical Progress, Employment and Sustainable Development', presented at the International Conference on 'Research, Technology and Employment' organised by the Spanish Ministry of Education, Madrid, 6-8.12, 1995.
- CARRARO C., A. Soubeyran (1995), 'Environmental Degradation and the Performance of the Tourism Industry', presented at the FEEM-University of Crete Conference on 'The Economics of Tourism', Crete, 16-18.10, 1995
- Botteon M., C. CARRARO, M. Galeotti and M. Gallo (1995), 'Modelli econometrici per l'analisi dei problemi ambientali', in *Quantitative Methods for Economic Policy*, Proceedings of the Conference organised by the Bank of Italy in Perugia, 29.9-2.10, 1993; Bank of Italy, Rome.
- CARRARO C., D. Siniscalco (1995), 'International Coordination of Environmental Policies and Stability of Global Environmental Agreements', in L. Bovenberg and S. Cnossen, eds., *Public Economics and the Environment in an Imperfect World*, Kluwer Academic Publishers: Dordrecht.

#### 1994

- CARRARO C., G. Topa (1994), 'Should Environmental Innovation Policy Be Internationally Coordinated', in C. CARRARO (ed.), *Trade, Innovation, Environment*, Kluwer Academic Press.
- CARRARO C., D. Siniscalco (1994), 'Environmental Policy Re-considered: The Role of Technological Innovation', *European Economic Review*, 38(3-4), 545-554.
- CARRARO C., A. Lanza, A. Tudini (1994), 'Technological Change, Technology Transfers, and International Environmental Agreements', in *International Environmental Affairs*, 6, 203-222,
- CARRARO C. (1994), 'Endogenous Technical Progress and Emission Control: Some Experiments with the WARM Model' paper presented at the Advanced Research Workshop on the 'Economics of Atmospheric Pollution', Wageningen, November 16-18, 1994. A revised version is published as C. CARRARO, M. Galeotti (1997), 'Economic Growth, International Competitiveness and Environmental Protection: R&D and Innovation Strategies with the WARM Model', *Energy Economics*, 19(1), 2-29.
- CARRARO C. (1994), 'Modelling Technical Progress in Top-Down Econometric Models', paper presented at the FEEM-IPCC Workshop on 'Top-Down vs. Bottom-up Models: What Can We Learn from Each Approach?', Milan 27-29 April, 1994.  
A revised version is published as C. CARRARO, J.-C. Hourcade (1998), 'Climate Modelling and Policy Strategies. The Role of Technical Change and Uncertainty', *Energy Economics*, 20(5-6), 463-471
- Botteon M., C. CARRARO, M. Galeotti (1994), 'Advances in the Econometric Modelling of Environment-Economy Linkages', paper presented at the 50th IIPF Conference, Harvard, 22-26 August, 1994; University of Bergamo, Working Paper 1994.4.  
A revised version is published under the title 'Advances of Climate Modelling for Policy Analysis' in the proceedings of the 'ENEA Symposium on Energy and the Environment', Rome, 12-13 October 1998.
- CARRARO C., P. Costa, M. Manente (1994), 'Il modello STREP di previsione dei flussi turistici internazionali in Veneto. Struttura teorica, parametrizzazione e previsioni al 1995', Ciset Working Paper 8.4/94.
- CARRARO C., M. Manente (1994), 'The TRIP Forecasting Models of World Tourist Flows from and to Italy', Ciset Working Paper 8.2/94.



- M. Botteon, C. CARRARO, M. Galeotti, M. Gallo (1994), 'Cambiamenti climatici globali, progresso tecnico e politica ambientale: le prospettive della modellistica econometrica', FEEM Working Paper 15.94, Milan; Published as chapters 1–3 of C. CARRARO and M. Galeotti (1995), *Ambiente, Occupazione e Progresso Tecnico: un Modello per l'Europa*, Bologna: Il Mulino.

### 1993

- CARRARO C., D. Siniscalco (1993), 'Strategies for the International Protection of the Environment', *Journal of Public Economics*, 4, 1993. Also in *Game Theory And International Environmental Cooperation: Essential Readings*, edited by Michael Finus and Alejandro Caparrós, Edward Elgar, Cheltenham.
- CARRARO C. (1993), 'Il ruolo dell'innovazione tecnologica nella politica ambientale', in M. Pavan and D. Siniscalco, eds., *Stato, grandi imprese, sviluppo sostenibile*, Milano, Edizioni FEEM.
- Botteon M., CARRARO C. (1993), 'Is the European Carbon Tax Really Effective?', in CARRARO, C. and D. Siniscalco, eds., *The Carbon Tax: an Economic Assessment*, Kluwer Academic Press.
- CARRARO C. (1993), 'Domanda di lavoro, fenomeni migratori e ciclo economico in mercati oligopolistici', rapporto preparato per il Ministero degli Affari Esteri, Fondazione Brodolini, Roma, 1993.
- CARRARO C., M. De Paoli, P. Vidaich (1993), 'Interazioni strategiche sul mercato del petrolio in presenza di una dinamica strutturale della domanda', Fondazione ENI E. Mattei, FEEM Working Paper 5.93.
- Botteon M., C. CARRARO (1993), 'Struttura ed effetti di una carbon tax Europea', in I. Musu, ed., *Ecologia ed economia dell'ambiente*, Bologna: Il Mulino.

### 1992

- CARRARO C., Siniscalco D. (1992), 'Environmental Innovation Policy and International Competition', *Environmental Resource Economics*, 2(2), 183–200.
- CARRARO C., D. Siniscalco (1992), 'The International Dimension of Environmental Policy', *European Economic Review*, 36(2-3), 379–387.
- Agostini P., M Botteon, C. CARRARO (1992), 'A Carbon Tax to Reduce CO2 Emissions in Europe', *Energy Economics*, 14(4), 279–290.
- CARRARO C., D. Siniscalco (1992), 'Transfers and Commitments in International Environmental Negotiations', paper prepared for the ESF Task Force 3 on 'Environmental Economics'; a revised version is in A. Ulph, ed., *Environmental Policy, International Agreements and International Trade*, Oxford, Oxford University Press.
- CARRARO C. (1992), 'Modelli di teoria dei giochi per l'analisi del mercato del lavoro' in R. Brunetta, ed., *Conflitto e relazioni di lavoro nel prossimo decennio*, Giappichelli, Torino, 1992.
- Brunetta R., C. CARRARO (1992), 'La politica dei redditi come strategia cooperativa', in L. Scandizzo (ed.), *Le politiche dei redditi in Italia*, Milan: Etas Libri.
- CARRARO C., I. Musu (1992) 'Politiche ambientali in presenza di informazione asimmetrica', in G. Muraro (ed.), *Politiche fiscali in condizioni di asimmetria informativa*, Bologna: Il Mulino.
- CARRARO C., M. De Paoli, P. Vidaich (1992), 'Strategic Interactions on the Oil Market with Structural Dynamics of Demand', GRETA Working Paper n. 92.03



- CARRARO C. (1992), 'Economia politica della crisi del golfo: il mercato del petrolio', Associazione Ruffilli, Venezia, 1992.
- CARRARO C., G. Topa (1992), 'Environmental Taxation and Firms' Technological Innovation', Working Paper 92.1, University of Udine.

### 1991

- CARRARO C., F. Giavazzi (1991), 'Can International Policy Coordination Really Be Counterproductive?', in C. CARRARO, D. Laussel, M. Salmon and A. Soubeyran, eds., *International Economic Policy Coordination*, Basil Blackwell
- Agostini P., M. Botteon, C. (CARRARO 1991), 'Fiscal Policy to Reduce Air Pollution in Italy', *Ricerche Economiche*, **4**.
- CARRARO C. (1991), 'Conflitto, disoccupazione e rigidità salariale', *Economia e Lavoro*, **1**.
- CARRARO C. D. Sartore (1991), 'Alcuni problemi di specificazione e stima di modelli a parametri variabili multiequazionali' in M. Faliva, ed., *Il ruolo dell'econometria nell'ambito delle scienze economiche*, Bologna: Il Mulino.

### 1990

- CARRARO C. (1990), 'Strategic Sequential Interaction Between Monetary and Fiscal Policy', in N. Cristodoulakis, ed., *Dynamic Modelling of National Economies 1989*, Pergamon Press, Oxford, 1990.
- CARRARO C., N. Rossi and A. Venturini (1989), 'Un modello per la previsione e l'analisi dei flussi turistici nazionali e internazionali', Ciset Working Paper 1.90.
- R. Brunetta, C. CARRARO (1990), 'Income Policies as Cooperative Strategies: Lessons from the Italian Experience of the 80's', in R. Brunetta e C. Dell' Aringa, eds., *Labour Relations and Economic Performance*, Oxford: Mc Millan.

### 1989

- CARRARO C., D. Siniscalco (1989), 'L'OPEC e il mercato del greggio: una struttura teorica', *Economia Politica*, **1**.
- CARRARO C. (1989), 'Credibility, Reputation, and the Indeterminacy of Macroeconomics', in P. Artus and Y. Barroux, eds., *Monetary Policy: A Theoretical and Econometric Approach*, Dordrecht: Kluwer Academic Pub..
- CARRARO C. (1989), 'The Tastes of European Central Bankers', in M. De Cecco and A. Giovannini, eds., *A European Central Bank? Perspectives on Monetary Unification after Ten Years of the EMS*, Cambridge: Cambridge University Press .
- CARRARO C., F. Giavazzi (1989), 'Regimi di tassi di cambio e desiderabilità della cooperazione internazionale', *Rivista di Politica Economica*, **79**(6),
- CARRARO C., F. Giavazzi (1989), 'Teoria dei giochi e teoria della politica economica', in L. Spaventa, ed., *Teoria dei Giochi e Teoria della Politica Economica*, Il Mulino, Bologna.
- CARRARO C. (1989), 'A Few Problems with Applications of the Kalman Filter in Economics', in De Carli et al., eds, *Statistical Modelling*, Springer Verlag, Berlin, 1989.



## 1988

- CARRARO C. (1988), 'The Implicit Objective Function of Italian Macroeconomic Policy', *Economic Modelling*, n.3, 1988, pp. 261-276.
- CARRARO C. (1988), 'Square Root Kalman Algorithms in Econometrics', *Computer Science in Economics and Management*, n.1, 1988.
- CARRARO C. (1988), 'A Folk Theorem of Monetary Policy', in D. Laussel, W. Marois and A. Soubeyran, eds., *Monetary Theory and Policy*, Springer Verlag, Berlin, 1988.
- Calliari S., C. CARRARO, D. Sartore (1988), 'Strumenti e obiettivi intermedi della politica monetaria in Italia: esperimenti di controllo con un modello mensile del mercato monetario e degli impieghi bancari', in *Politica Economica e Teoria del Controllo*, edited by C. CARRARO, Cafoscarina Editrice, Venezia, 1988.
- CARRARO C. (1988), 'Sequential Policy Games', *Nota di Lavoro 8804*, Università di Venezia, 1988.
- CARRARO C. (1988), 'Dai modelli strutturali ai modelli state-space: rappresentazioni alternative in econometria', in C. CARRARO, ed., *Politica Economica e Teoria del Controllo*, Cafoscarina Editrice, Venezia, 1988.

## 1987

- CARRARO C. (1987), 'Preferenze rivelate e giochi di Nash: gli obiettivi impliciti di politiche monetarie e fiscali in Italia', *Economia e Lavoro*, **2**.
- CARRARO C. (1987), 'Strategie punitive, annunci ottimali e politiche dei redditi', *Ricerche Economiche*, **2**.
- CARRARO C. (1987), 'Policy Instruments and Coalitions in International Games', in *Game Theory and Interdependence of Economic Policies*, a special issue of *Ricerche Economiche*, edited by C. CARRARO and F. Giavazzi, n.3-4.
- CARRARO C. (1987), 'Stackelberg Games and the Problem of Time-Inconsistency', *Note Economiche*, **3**.
- CARRARO C. (1987), 'Monetarist and Keynesian Policies for the Italian Labour Market: an Application of Interactive Control Methods', *Labour*, **1**.
- CARRARO C. (1987), 'The Theory of Optimal Announcements', in B. Martos and M. Ziermann (eds.), *Dynamic Modelling and Control of National Economies*, Oxford: Pergamon Press.
- CARRARO C., D. Sartore (1987), 'Square Root Iterative Filter: Theory and Applications to Econometric Models', *Annals of Economics and Statistics*, n.6-7.

## 1986

- CARRARO C. (1986), 'Teoria dei giochi e il problema della coordinazione tra politiche monetarie e fiscali', *Ricerche Economiche*, n.2-3.
- CARRARO C. (1986), 'Indicatori sintetici della politica economica', *Rivista Internazionale di Scienze Economiche e Commerciali*, 33, Giugno-Luglio 1986, pp.629-656.
- Calliari S., C. CARRARO, D. Sartore (1985), 'Instruments and Intermediate Targets of Monetary Policy', *Journal of Economic Dynamics and Control*, 1986, pp.175-184.

## 1985

- CARRARO C., M. Volpe (1985), 'Un'analisi econometrica della relazione tra prezzi all'ingrosso e prezzi al consumo', in A. Stellatelli, ed., *Il commercio nella struttura dell'economia italiana*, CESDIT, Milano, 1985.





- CARRARO C. (1985), 'Hierarchical Games for Macroeconomic Policy Analysis', *Econometric Research Program Memorandum* n.320, Princeton University, September 1985.  
Also in C. CARRARO and D. Sartore (eds), *Developments of Control Theory for Economic Analysis*, Dordrecht: Kluwer Academic Publisher, 1987.
- CARRARO C. (1985), 'Regression and Kalman Filter Methods for Time-Varying Econometric Models', *Econometric Research Program Memorandum* n.319, Princeton University, September 1985. Also in *Ricerche Economiche*, 1, 1988.
- CARRARO C. (1985), *New Methods for Macroeconomic Policy Analysis*, Ph.D. Dissertation, Princeton University, May 1985, published on demand by University Microfilm International, Ann Arbor, Michigan, USA, 1985.

#### 1984

- CARRARO C., A. Medio (1984), 'Errore di aggregazione nei modelli input-output: una replica', *Ricerche Economiche*, n.3, 1984.
- CARRARO C. (1984), 'Modelli econometrici e funzioni di reazione della politica economica', *Ricerche Economiche*, n.3, 1984.
- CARRARO C. (1984), 'Feedback analysis di modelli input-output dinamici', in *Ricerche Quantitative per la Politica Economica*, Quaderni di Ricerca of the Bank of Italy, Rome.
- CARRARO C. (1984), 'Identification and Estimation of Regression Models with Structural Variability of the Parameters', in T. Basar and L.F. Pau (eds), *Dynamic Modelling and Control of National Economies*, Oxford: Pergamon Press.

#### 1983

- CARRARO C., A. Medio (1983), 'Limiti ed affidabilità dell'analisi input-output', *Ricerche Economiche*, n.1-2, 1983.
- CARRARO C. (1983), 'Ottimalità della politica economica nei modelli con aspettative razionali', *Giornale degli Economisti ed Annali di Economia*, n.3. 1983.

#### 1982

- CARRARO C. (1982), 'Identification of the State Covariance Matrix of Time-Varying Systems', ACME Working Paper 8209, August 1982.
- Brunetta R., CARRARO C. (1982), 'Conflitto, politica economica e disequilibrio', *Economia e Lavoro*, 2, pp. 3-15.

#### 1981

- CARRARO C. (1981), 'Policy Ineffectiveness Analysis by Control Methods', ACME Working Paper 8105, October 1981.
- CARRARO C. (1981), 'Controllabilità dei modelli con aspettative razionali', *Ricerche Economiche*, 3/4, pp. 312-321.

---

#### Vox and la Voce policy notes



- CARRARO C., M. Fay, M. Galeotti, “Greening Economics: It is time”, *Vox*, 26 April 2014
- CARRARO C., T. Longden, G. Marangoni, M. Tavoni “Carbon pricing and the role of natural gas in EU climate policy”, *Vox*, 27 November 2013
- CARRARO C., Massetti E. “When should China start cutting its emissions?”, *Vox*, 25 April 2012
- Bosetti, V., CARRARO C., E. De Cian, E. Massetti, M. Tavoni, “Working together for a better planet: The best is the enemy of the good”, *Vox*, 23 April 2012
- CARRARO C., Massetti E. (2010), ‘Copenhagen: Good news and bad news’, *Vox*, 15 January 2010
- CARRARO C., Tavoni M. “China’s Copenhagen commitment: Business as usual or climate leadership?”, 5 January 2010
- CARRARO C., Tavoni M. (2010), ‘Looking ahead from Copenhagen: how challenging is the Chinese carbon intensity target?’, *Vox*, January 2010
- CARRARO C., V. Bosetti, M. Tavoni, T. F. Rutherford, R. Richels, G. Blanford, “Breaking the climate stalemate?”, *Vox*, 7 December 2009
- CARRARO C., Massetti E. (2009), ‘The improbable 2°C global warming target’, *Vox*, September 2009.
- Bosetti V., CARRARO C., Massetti E., Tavoni M. (2008), ‘Pay less, get less: An economic assessment of post-2012 climate policy proposals’, *Vox*, December 2008. <http://www.voxeu.org/index.php?q=node/2668>
- Bosetti V., CARRARO C., Sgobbi A., Tavoni M. (2008), ‘No free lunch: The costs and benefits of post-2012 climate policies’, *Vox*, December 2008. <http://www.voxeu.org/index.php?q=taxonomy/term/219>
- Bosetti V., CARRARO C., Tavoni M. (2008), ‘How can China help reducing climate policy costs?’, *Vox*, October 2008. <http://www.voxeu.org/index.php?q=node/1724>.
- Bosetti V., CARRARO C., Massetti E., Tavoni M. (2008), ‘What a different world. Costs and policy for a low carbon society’, *Vox*, January 2008. <http://www.voxeu.org/index.php?q=node/890>.
- CARRARO C., Sgobbi A., ‘Games can help. An application of bargaining theory to water conflicts in Italy’, *Vox*, January 2008. <http://www.voxeu.org/index.php?q=node/864>
- CARRARO C., Galeotti M. (2007), ‘Se sul clima si danno i numeri’, *La voce*, Ottobre 2007. <http://www.lavoce.info>
- CARRARO C., Galeotti M. (2007), ‘Gli strani dati del ministro dell'ambiente’, *La voce*, Ottobre 2007. <http://www.lavoce.info>