

# GIORGIA OGGIONI

## PERSONAL INFORMATION

*Born in Bergamo, Italy, May, 16th, 1980*

*Affiliation* Department of Economics and Management  
University of Brescia, Italy

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25122, Brescia (IT)

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Orcid ID <https://orcid.org/0000-0001-6532-1727>

ResearcherID F-2276-2018

Scopus ID 22835450800

## CURRENT POSITION

*May 1, 2020  
–Present*

**Full Professor** (Professore I Fascia) in **Mathematical Methods of Economy, Finance and Actuarial Sciences - S.S.D. SECS-S/06** (Metodi Matematici dell'Economia e delle Scienze Attuariali e Finanziarie) at the Department of Economics and Management, University of Brescia, Italy.

**Settore concorsuale: 13/D4** Metodi Matematici dell'Economia e delle Scienze Attuariali e Finanziarie.

## PAST POSITIONS

*December 22,  
2017-  
April 30, 2020*

**Associate Professor** (Professore II Fascia) in **Mathematical Methods of Economy, Finance and Actuarial Sciences - S.S.D. SECS-S/06** (Metodi Matematici dell'Economia e delle Scienze Attuariali e Finanziarie) at the Department of Economics and Management, University of Brescia, Italy.

*April 1, 2009-  
December 21, 2017*

**Assistant Professor** (Ricercatore) in **Mathematical Methods of Economy, Finance and Actuarial Sciences - S.S.D. SECS-S/06** (Metodi Matematici dell'Economia e delle Scienze Attuariali e Finanziarie) at the Department of Economics and Management, University of Brescia, Italy.

*January 1, 2008-  
March 31, 2009*

**Research Assistant** (Assegnista di Ricerca)  
Department of Mathematics, Statistics, Computer Sciences and Applications,  
Faculty of Economics, University of Bergamo, Italy.  
**Research Project:**  
*Equilibrium problems and complementarity problems applied to the electricity market*

*September 1, 2008-  
December 31, 2008*

**Post-Doctoral Fellow**  
CORE (Center for Operations Research and Econometrics),  
Université catholique de Louvain, Belgium.

## EDUCATION

- June 19, 2008*                      **Joint Ph.D. in**  
- *Engineering sciences*, Université catholique de Louvain, Belgium.  
- *Computational Methods for Economic and Financial Forecasting and Decisions*,  
University Bergamo, Italy.  
**Advisors:**  
- Prof. Y. Smeers (CORE, Université catholique de Louvain, Belgium)  
- Prof. E. Allevi (University Brescia, Italy)
- 1999-2004,  
March 25, 2004*                      **Bachelor Degree in Economics and Business Administration.**  
University Bergamo, Italy
- ### AWARDS AND FELLOWSHIPS
- Research grant*                      **2017: Italian Ministry of Education, University and Research, Italy.**  
- Finanziamento delle attività base di ricerca (Finanziamento FFABR).
- Research  
fellowship for  
visiting period*                      **2016: Universidad de Castilla-la Mancha (UCLM), Toledo, Spain.**  
- Research fellowship financed by the Universidad de Castilla-la Mancha  
for supporting research visiting at UCLM, Toledo.  
*Fellowship Responsabile:* Prof. Miguel Carrion Ruiz-Peinado, UCLM,  
Toledo.
- Best paper award*                      **2015: Department of Economics and Management, University of Brescia,  
Italy.**  
- Award of **500 euros** for the “best paper” published by assistant  
professors of the Department of Economics and Management of the  
University of Brescia. This prize has been granted by the Department of  
Economics and Management after an external evaluation process.
- Research  
fellowship  
(Assegno di  
ricerca)*                      **January-March, 2009: Department of Mathematics, Statistics, Computer  
Sciences and Applications, Faculty of Economics, University of Bergamo,  
Italy.**  
- Research fellowship for research activities.
- Research  
fellowship  
(Assegno di  
ricerca)*                      **January-December, 2008: Department of Mathematics, Statistics,  
Computer Sciences and Applications, Faculty of Economics, University of  
Bergamo, Italy.**  
- Research fellowship for research activities.
- Full Ph.D.  
scholarship*                      **2005-2007: Italian Ministry of Education, University and Research.**  
- Full Ph.D. scholarship for the doctoral studies.

## TEACHING EXPERIENCES (UNDERGRADUATE COURSES)

- 2019-present      **Professor** of the bachelor course *Mathematics for economics and business (Matematica Generale, Matematica I (mutuato))*, 9 CFU, 60 hours, in Italian.  
University of Brescia, Italy.  
*Academic year: 2020/2021*  
*Academic year: 2019/2020.*
- 2020-present      **Professor** of the bachelor course *Advanced mathematics for economics and business (Matematica II)*, 6 CFU, 15 hours, in Italian.  
University of Brescia, Italy.  
*Academic year: 2020/2021.*
- 2014-2019      **Professor** of the bachelor course *Mathematics for economics and business (Matematica Generale O-Z)*, 9 CFU, 60 hours, in Italian.  
University of Brescia, Italy.  
*Academic year: 2018/2019*  
*Academic year: 2017/2018*  
*Academic year: 2016/2017*  
*Academic year: 2015/2016*  
*Academic year: 2014/2015.*
- 2009-2014      **Teaching Assistant** for the bachelor course *Mathematics for economics and business (Matematica Generale)*, in Italian.  
University of Brescia (Italy).  
*Academic year: 2013/2014*  
*Academic year: 2012/2013*  
*Academic year: 2011/2012*  
*Academic year: 2010/2011*  
*Academic year: 2009/2010.*
- 2004-2005      **Teaching Assistant** for the course *Advanced Financial Economics (Matematica finanziaria avanzata)*, in Italian.  
University of Bergamo (Italy).  
*Academic year: 2004/2005.*

## TEACHING EXPERIENCES (MASTER COURSES)

- 2017-Present      **Professor** of the master course *Quantitative methods for economics and business*, 9 CFU, 60 hours, in English.  
University of Brescia (Italy)  
*Academic year: 2020/2021*  
*Academic year: 2019/2020*  
*Academic year: 2018/2019*  
*Academic year: 2017/2018.*
- 2013-2014      **Professor** of the master course *Quantitative methods for economics and business*, 15 hours, in English.  
University of Brescia (Italy)  
*Academic year: 2013/2014.*
- 2011-2014      **Professor** of the master course *Models for energy markets (Modelli per i mercati energetici)*, 6 CFU, 40 hours, in Italian.  
University of Brescia (Italy).  
*Academic year: 2013/2014*  
*Academic year: 2012/2013*  
*Academic year: 2011/2012.*

## TEACHING EXPERIENCES (COURSES AND SEMINARS FOR DOCTORAL STUDENTS)

<i>Academic Year</i> 2020/2021	<b>Professor</b> of the Ph.D. course <i>Analytical Methods for Economics and Finance</i> ( <b>14 hours</b> ) XXXV Cycle of the Ph.D. program on “Analytics for Economics and Management”, University of Brescia (Italy).
<i>Academic Year</i> 2019/2020	<b>Professor</b> of the Ph.D. course <i>Analytical Methods for Economics and Finance</i> ( <b>12.5 hours</b> ) XXXV Cycle of the Ph.D. program on “Analytics for Economics and Management”, University of Brescia (Italy).
<i>Academic Year</i> 2018/2019	<b>Professor</b> of the Ph.D. course <i>Analytical Methods for Economics and Finance</i> ( <b>15 hours</b> ) XXXIV Cycle of the Ph.D. program on “Analytics for Economics and Management”, University of Brescia (Italy).
<i>Academic Year</i> 2017/2018	<b>Professor</b> of the Ph.D. course <i>Analytical Methods for Economics and Finance</i> ( <b>14 hours</b> ) XXXIII Cycle of the Ph.D. program on “Analytics for Economics and Management”, University of Brescia (Italy).
<i>Academic Year</i> 2016/2017	<b>Professor</b> of the Ph.D. course <i>Convex Analysis and Optimization</i> ( <b>12 hours</b> ) XXXII Cycle of the Ph.D. program on “Analytics for Economics and Business”, University of Bergamo and University of Brescia (Italy).
<i>Academic Year</i> 2015/2016	<b>Professor</b> of the Ph.D. course <i>Convex Analysis and Optimization</i> ( <b>4 hours</b> ) XXXI Cycle of the Ph.D. program on “Analytics for Economics and Business”, University of Bergamo and University of Brescia (Italy).
<i>Academic Year</i> 2014/2015	<b>Seminar</b> in <i>Energy market modeling: an introduction to equilibrium and complementarity problems</i> ( <b>3 hours</b> ) XXX Cycle of the Ph.D. program on “Analytics for Economics and Business”, University of Bergamo and University of Brescia (Italy).
<i>Academic Year</i> 2013/2014	<b>Seminar</b> in <i>Equilibrium models for energy markets</i> ( <b>4 hours</b> ) XXIX Cycle of the Ph.D. program on “Analytics for Economics and Business”, University of Bergamo and University of Brescia (Italy).

## TEACHING EXPERIENCES ABROAD IN FOREIGN UNIVERSITIES

<i>Academic Year</i> 2018/2019	<b>Erasmus+ Staff Mobility for Teaching.</b> Teaching to students of the third year of the Bachelor Degree in Electrical Engineering, Faculty of Industrial Engineering, Campus Tecnológico, Universidad de Castilla-La Mancha, Toledo, Spain. Teaching load of <b>8 hours</b> in the following courses: <ol style="list-style-type: none"><li>1. <i>Centrales Eléctricas</i>;</li><li>2. <i>Energías Renovables</i>;</li><li>3. <i>Instalaciones Eléctricas de Alta Tensión</i>.</li></ol> <b>Erasmus period:</b> March 18-22, 2019.
<i>Academic Year</i> 2018/2019	<b>Teaching activities in the framework of the Global Responsibility Week</b> organized by the Nottingham Business School, Nottingham Trent University, UK. Teaching load: <b>6 hours</b> . <b>Period:</b> March 5-7, 2019.

Academic Year  
2017/2018

**Erasmus+ Staff Mobility for Teaching.** Teaching to students of the third year of the Bachelor Degree in Electrical Engineering, Faculty of Industrial Engineering, Campus Tecnológico, Universidad de Castilla-La Mancha, Toledo, Spain.

Teaching load of **10 hours** in the following courses:

1. *Centrales Eléctricas*;
2. *Energías Renovables*.

**Erasmus period:** March 12-16, 2018.

## OTHER TEACHING EXPERIENCES

2014-2015

Organization and realization of the **online preparatory course** for *Mathematics for economics and business (Precorso online di Matematica Generale)* with the support of the software L2L.

## UNIVERSITY STUDY ADVISORY ACTIVITIES FOR HIGH SCHOOL STUDENTS

April, 2015

**Seminar** on "*Economia sostenibile: fonti rinnovabili e regolamentazioni ambientali*" Istituto di Istruzione Superiore "Giacomo Antonietti" Iseo, Brescia

May, 2015

**Seminar** on "*L'energia della luce: Il potere dell'energia, tra produzione e controllo?*" during the UniBSDays, University of Brescia, Italy.

## PH.D. STUDENT'S SUPERVISION

Ph.D. students  
supervisor

**Supervisor of the Ph.D. student:** Luigi Boffino.

Ph.D. candidate of the Ph.D. program on "Analytics for Economics and Business (AEB)", XXXI Cycle, University of Bergamo (Italy).

**Thesis title:** *Models and Methods for Electricity and Gas Markets in a low-carbon economy.*

Ph.D thesis defended on: February 15, 2019.

Ph.D. students  
supervisor

**Co-Supervisor of the Ph.D. student:** Muhammad Mujiya Ulkhaq.

Ph.D. candidate of the Ph.D. program on "Analytics for Economics and Management (AEM)", XXX Cycle, University of Brescia (Italy).

## POST-DOC STUDENT'S ADVISOR

March 2020 -  
February 2021

**Responsible of a one-year post-doc fellowship (assegno di ricerca)** at the Department of Economics and Management, University of Brescia, Italy.

**Post-doc student:** Dimitrios Zormpas

**Research topic:** *Nonlinear optimization models and methods for circular economy and energy systems.*

## MEMBERSHIP TO THE TEACHERS COUNCIL OF DOCTORAL PROGRAMS

2017-Present

**Member** of the Teachers Council of the Ph.D. program on "Analytics for Economics and Management (AEM)" for the XXXIII, XXXIV, XXXV, and XXXVI Cycles. University of Brescia, Italy.

2013-2019

**Member** of the Teachers Council of the Ph.D. program on “Analytics for Economics and Business (AEB)” for the XXIX, XXX, XXXI, and XXXII Cycles. University of Bergamo and University of Brescia, Italy.

## MEMBER OF THE COMMITTEE - PH.D. DEFENSE

*Member of the committee - Ph.D. defense*

**Member of the committee for the evaluation of the following Ph.D. theses:**

**Ph.D. candidate (2020):** Ana Baringo Morales, Universidad de Castilla - La Mancha, Ciudad Real, Spain.

Ph.D. thesis on: “*Operation and Expansion Strategies for Virtual Power Plants Participating in Electricity Markets*”.

## EXTERNAL REVIEWER FOR PH.D. THESIS

*Ph.D. Thesis reviewer*

**Evaluator (external reviewer) of the following Ph.D. theses:**

**1) Ph.D. candidate (2019):** Marco Neffelli, University of Genoa, Italy.  
Ph.D. thesis on: “*Covariance Matrix Construction and Estimation: Critical Analyses and Empirical Cases for Portfolio Applications*”.

**2) Ph.D. candidate (2015):** Ruth Dominguez Martin, Universidad de Castilla-La Mancha, Toledo, Spain.  
Ph.D. thesis on: “*Planning and Operations in Fully Renewable electric energy systems*”.

**3) Ph.D. candidate (2014):** Dario G. De Maio, IMT Lucca, Italy.  
Ph.D. thesis on: “*Essays on Applied Energy Economics: Design and Regulation of the Markets for Electricity and Natural Gas*”.

**4) Ph.D. candidate (2014):** Sebastian Martin Rivas, Universidad de Malaga, Spain.  
Ph.D. thesis on: “*Stochastic-Based Models for Electricity Market Analysis with High Wind Energy Penetration*”.

**5) Ph.D. candidate (2013):** Luis Baringo Morales, Universidad de Castilla-La Mancha, Spain.  
Ph.D. thesis on: “*Stochastic Complementarity Models for Investment in Wind-Power and Transmission Facilities*”.

## ACADEMIC SERVICES: MEMBERSHIP TO COMMITTEES

*April 7, 2021-present*

**Chair (Presidente)** of the “*Commissione Domande e Pratiche Studenti*”, Department of Economics and Management, University of Brescia, Italy.

*December 2, 2020-present*

**Vice Presidente del Consiglio di Corsi di Studio Aggregato** del Dipartimento di Economia e Management, (Co-chair of the Council of the Aggregated Bachelor and Master Courses, Department of Economics and Management, University of Brescia, Italy.

*February 20, 2020-December 1, 2020*

**Gruppo di Riesame - Referente del Corso di Laurea Triennale in Banca e Finanza**, Department of Economics and Management, University of Brescia, Italy.

*January 23, 2019-February 19, 2020*

**Gruppo di Riesame - Docente tutor del Corso di Laurea Triennale in Banca e Finanza**, Department of Economics and Management, University of Brescia, Italy.

January, 2019-present	<b>Member</b> as representative of the University of Brescia of the <b>Osservatorio per l'economia circolare e la transizione energetica - Tavolo sullo spreco alimentare</b> established at the Lombardy Region.
July 18, 2018- present	<b>Chair (Presidente)</b> of the " <i>Commissione Test</i> ", Department of Economics and Management, University of Brescia, Italy.
October 16, 2018- December 1, 2020	<b>Co-Chair (Vice-presidente)</b> of the " <i>Department Board for International Relations - Commissione Erasmus e Relazioni Internazionali</i> ", Department of Economics and Management, University of Brescia, Italy.
May, 2013- July 17, 2018	<b>Member</b> of the " <i>Commissione Test</i> ", Department of Economics and Management, University of Brescia, Italy.
October 25, 2017- October 15, 2018	<b>Member</b> of the " <i>Department Board for International Relations - Commissione Erasmus e Relazioni Internazionali</i> ", Department of Economics and Management, University of Brescia, Italy.
2015- October 24, 2017	<b>Member</b> of the " <i>Commissione esaminatrice curricula e piani di studio</i> ", Department of Economics and Management, University of Brescia, Italy.

## OTHER ACADEMIC SERVICES

2021	<b>Member of the Committee selecting the candidates for a tenure-track position (RTD-B)</b> , at the Department of Economics and Management, University of Brescia, Italy.
2019	<b>Member of the Committee selecting the candidates for a tenure-track position (RTD-B)</b> , at the Department of Economics, University Ca' Foscari of Venice, Italy.
2018	<b>Member of the Committee selecting the candidates for the XXXIV cycle of the Ph.D. program on "Analytics for Economics and Management"</b> , Department of Economics and Management, University of Brescia, Italy.

## RESEARCH PERIODS ABROAD

March 18-22, 2019	<b>Visiting researcher</b> at the Escuela de Ingeniería Industrial, Universidad de Castilla-la Mancha Toledo, Spain. <b>Research collaboration with:</b> <i>Prof. Ruth Dominguez and Prof. Miguel Carrion Ruiz Peinado.</i> <b>Research project:</b> <i>Stochastic programming models for electricity markets.</i>
March 11-16, 2018	<b>Visiting researcher</b> at the Escuela de Ingeniería Industrial, Universidad de Castilla-la Mancha Toledo, Spain. <b>Research collaboration with:</b> <i>Prof. Ruth Dominguez and Prof. Miguel Carrion Ruiz Peinado.</i> <b>Research project:</b> <i>Stochastic programming models for electricity markets.</i>
March 20-24, 2017	<b>Visiting researcher</b> at Center for Operations Research and Econometrics (CORE), Université catholique de Louvain, Louvain-la-Neuve, Belgium. <b>Research collaboration with:</b> <i>Prof. Yves Smeers</i> <b>Research project:</b> <i>Equilibrium models for reserve procurement in electricity market.</i>

- April 1-30, 2016  
**Visiting researcher** at the Escuela de Ingeniería Industrial, Universidad de Castilla-la Mancha Toledo, Spain.  
**Research collaboration with:** *Prof. Ruth Dominguez and Prof. Miguel Carrion Ruiz Peinado.*  
**Research project:** *Stochastic programming models for electricity markets.*
- March 14-18, 2016  
**Visiting researcher** at Center for Operations Research and Econometrics (CORE), Université catholique de Louvain, Louvain-la-Neuve, Belgium.  
**Research collaboration with:** *Prof. Yves Smeers*  
**Research project:** *Equilibrium models for reserve procurement in electricity market.*
- March 2-13, 2015  
November 18-20, 2015  
**Visiting researcher** at Center for Operations Research and Econometrics (CORE), Université catholique de Louvain, Louvain-la-Neuve, Belgium.  
**Research collaboration with:** *Prof. Yves Smeers*  
**Research project:** *Equilibrium models applied to gas markets.*
- April 7-18, 2014  
**Visiting researcher** at Center for Operations Research and Econometrics (CORE), Université catholique de Louvain, Louvain-la-Neuve, Belgium.  
**Research collaboration with:** *Prof. Yves Smeers*  
**Research project:** *Equilibrium models applied to gas markets.*
- March 25-April 5, 2013  
**Visiting researcher** at Center for Operations Research and Econometrics (CORE), Université catholique de Louvain, Louvain-la-Neuve, Belgium.  
**Research collaboration with:** *Prof. Yves Smeers*  
**Research project:** *Equilibrium models applied to energy markets.*
- April 26-May 11, 2012  
**Visiting researcher** at Center for Operations Research and Econometrics (CORE), Université catholique de Louvain, Louvain-la-Neuve, Belgium.  
**Research collaboration with:** *Prof. Yves Smeers*  
**Research project:** *Generalized Nash Equilibrium problems and their applications to electricity markets.*
- June 11-14, 2011  
April 27-May 13, 2011  
**Visiting researcher** at Center for Operations Research and Econometrics (CORE), Université catholique de Louvain, Louvain-la-Neuve, Belgium.  
**Research collaboration with:** *Prof. Yves Smeers*  
**Research project:** *Generalized Nash Equilibrium problems and their applications to electricity markets.*
- June 19-20, 2010  
March 1-19, 2010  
**Visiting researcher** at Center for Operations Research and Econometrics (CORE), Université catholique de Louvain, Louvain-la-Neuve, Belgium.  
**Research collaboration with:** *Prof. Yves Smeers*  
**Research project:** *Generalized Nash Equilibrium and applications to electricity markets.*
- September, 2009  
August, 2009  
July 3-14, 2009  
May 7-25, 2009  
March 1-31, 2009  
**Visiting researcher** at Center for Operations Research and Econometrics (CORE), Université catholique de Louvain, Louvain-la-Neuve, Belgium.  
**Research collaboration with:** *Prof. Yves Smeers*  
**Research project:** *Generalized Nash Equilibrium problems and their applications to electricity markets.*
- January 16-27, 2008  
**Visiting researcher** at "The A. Gary Anderson Graduate School of Management"  
University of California, Riverside, USA.  
**Research collaboration with:** *Prof. S. Schaible*  
**Research project:** *Study of quasi-variational inequality problems and their application to electricity markets.*



September, 2008-  
December, 2008

**Researcher** at CORE, Université catholique de Louvain, Louvain-la-Neuve, Belgium.

**Research collaboration with:** *Prof. Yves Smeers*

**Research project:** *Equilibrium models applied to energy markets.*

September, 2005-  
June, 2008

**Researcher** at CORE, Université catholique de Louvain, Louvain-la-Neuve, Belgium.

**Research collaboration with:** *Prof. Yves Smeers*

**Research project:** *Ph.D thesis.*

## OTHER COLLABORATIONS WITH FOREIGN PROFESSORS

**Referent for the research activity of following foreign professors who have required to spend a visiting period at the Department of Economics and Management of the University of Brescia (Italy).**

May- July 2017

**Prof. Luis Baringo** from the Escuela Tecnica Superior de Ingenieros Industriales, Universidad de Castilla-la Mancha, Ciudad Real (Spain) during his visiting period at the Department of Economics and Management of the University of Brescia (Italy).

**Research project:** *Robust optimization for the analysis of a distributed energy system with electric vehicles.*

September-  
December 2015

**Prof. Ruth Dominguez** from the Escuela de Ingeniería Industrial, Universidad de Castilla-la Mancha, Toledo (Spain) during her visiting period at the Department of Economics and Management of the University of Brescia (Italy).

**Research project:** *Stochastic programming models for the analysis of the reserve market in Europe.*

## COMPUTER SKILLS

GAMS, MATHEMATICA, HTML, L<sup>A</sup>T<sub>E</sub>X, Office, Microsoft Windows, MAC OS

## LANGUAGES

Languages

ITALIAN · Mothertongue

ENGLISH · Good (conversationally fluent)

FRENCH · Intermediary

## RESEARCH INTERESTS

- Nonlinear Optimization (Focus on: equilibrium problems, Variational and Quasi-Variational Inequalities models and methods, MPEC and EPEC);
- Nash and Generalized Nash Equilibrium Problems;
- Stochastic programming;
- Data Envelopment Analysis (DEA);
- Mathematics applied to economics;
- Energy Economics;
- Electricity and natural gas markets;
- Environmental Regulations;
- Green supply chain management;
- DEA applied to Social Responsible Funds.

## PUBLICATIONS IN INTERNATIONAL JOURNALS WITH PEER-REVIEW PROCESS

1. Allevi E., A. Gnudi, I.V. Konnov, G. Oggioni (2021).  
*Municipal solid waste management in circular economy: A sequential optimization model.* **Energy Economics**, vol. 110, 105383, pp. 1-16. ISSN: 0140-9883.
2. Baringo L., L. Boffino, G. Oggioni (2020).  
*Robust expansion planning of a distribution system with electric vehicles, storage and renewable units* **Applied Energy**, vol. 265, May 1, 2020, 114679, pp. 1-25. ISSN: 0306-2619.
3. Dominguez R., M. Carrion, G. Oggioni (2020).  
*Planning and operating a renewable-dominated European power system under uncertainty* **Applied Energy**, vol. 258, January 15, 2020, 113989, pp. 1-20. ISSN: 0306-2619.
4. Boffino L., A.J. Conejo, R., Sioshansi, G. Oggioni (2019).  
*A Two-Stage Stochastic Optimization Planning Framework to Deeply Decarbonize Electric Power Systems.* **Energy Economics**, vol. 84, October 2019, 104457, pp. 1-19. ISSN: 0140-9883.
5. Allevi E., A. Gnudi, I.V. Konnov, G. Oggioni (2019).  
*Dynamic spatial equilibrium models: an application to the natural gas spot markets.* **Networks and Spatial Economics**, DOI: 10.1007/s11067-019-09458-5, ISSN: 1572-9427.
6. Dominguez, R., G. Oggioni, Y. Smeers (2019).  
*Reserve procurement and flexibility services in power systems with high renewable capacity: effects of integration on different market designs.* **International Journal of Electrical Power & Energy Systems**, vol. 113, pp.1014-1034. ISSN: 0142-0615.
7. Allevi E., A. Basso, F. Bonenti, G. Oggioni, R. Riccardi (2019).  
*Measuring the environmental performance of Green SRI funds: a DEA approach.* **Energy Economics**, vol. 79, pp. 32-44. ISSN: 0140-9883.
8. Allevi E., L. Boffino, M.E. De Giuli, G. Oggioni (2019).  
*Analysis of long-term natural gas contracts with vine copulas in optimization portfolio problems.* **Annals of Operations Research**, vol. 274 (1-2), pp. 1-37. ISSN: 1572-9338.
9. Allevi E., A. Gnudi, I.V. Konnov, G. Oggioni (2018).  
*Decomposition Method for Oligopolistic Competitive Models with Common Environmental Regulation.* **Annals of Operations Research**, vol. 268, pp. 441-467. ISSN: 1572-9338.
10. Allevi E., A.J. Conejo, G. Oggioni, R. Riccardi, C. Ruiz (2018).  
*Evaluating the strategic behaviour of cement producers: an Equilibrium Problem with Equilibrium Constraints.* **European Journal of Operational Research**, vol. 264, pp. 717-731. ISSN: 0377-2217.
11. Allevi E., L. Boffino, M.E. De Giuli, G. Oggioni (2018).  
*Evaluating the impacts of the external supply risk in a natural gas supply chain: the case of the Italian market.* **Journal of Global Optimization**, vol. 70, pp. 347-384. ISSN: 1573-2916.
12. Allevi E., A. Gnudi, I.V. Konnov, G. Oggioni (2018).  
*Evaluating the effects of environmental regulations on a closed-loop supply chain network: a variational inequality approach.* **Annals of Operations Research**, vol. 261, pp. 1-43. ISSN: 1572-9338.
13. Allevi E., A. Gnudi, I.V. Konnov, G. Oggioni (2017).  
*Dynamic Spatial Auction Market Models with General Cost Mappings.* **Networks and Spatial Economics**, vol. 17(2), pp. 367-403. ISSN: 1572-9427.

14. Allevi E., G. Oggioni, R. Riccardi, M. Rocco (2017).  
*An equilibrium model for the cement sector: EU-ETS analysis with power contracts.*  
**Annals of Operations Research**, vol. 255, pp. 63-93.  
ISSN: 1572-9338.
15. Allevi E., G. Oggioni, R. Riccardi, M. Rocco (2017).  
*Evaluating the carbon leakage effect on cement sector under different climate policies.*  
**Journal of Cleaner Production**, vol. 263, pp. 320-337.  
ISSN: 0959-6526.
16. Allevi E., G. Oggioni, R. Riccardi, M. Rocco (2015).  
*Spatial equilibrium problems: the carbon leakage effect on cement sector under different environmental policies.*  
**Journal of Information and Optimization Sciences**, vol. 36(1&2), pp. 1-21.  
ISSN: 0252-2667
17. Neuhoff K., C. Batlle, G. Brunekreeft, C.V. Konstantinidis, C. Nabe, G. Oggioni, P. Rodilla, S. Schwenen, T. Siewierski, G. Strbac (2015).  
*Flexible Short-term Power Trading: Gathering experience in EU countries.*  
**DIW Berlin Discussion Paper**, n. 1494, ISSN: 1619-4535.
18. Oggioni G., F.H. Murphy, Y. Smeers (2014).  
*Evaluating the impacts of priority dispatch in the European electricity market.*  
**Energy Economics**, vol. 42, pp. 183-200. ISSN: 0140-9883.
19. Allevi E., B. Bonenti, G. Oggioni (2013).  
*Complementarity models for restructured electricity markets under environmental regulations.*  
**Statistica & Applicazioni**, Special Issue, pp. 7-27. ISSN: 1824-6672.
20. Bonenti F., G. Oggioni, E. Allevi, G. Marangoni (2013).  
*Evaluating the EU ETS impacts on profits, investments and prices of the Italian electricity market.*  
**Energy Policy**, vol. 59, pp. 242-256. ISSN: 0301-4215.
21. Oggioni G., Y. Smeers (2013).  
*Market failures of Market Coupling and counter-trading in Europe: An illustrative model based discussion.*  
**Energy Economics**, vol. 35, pp.74-87. ISSN: 0140-9883.
22. Allevi E., G. Oggioni, R. Riccardi, M. Rocco (2013).  
*A spatial competitive analysis: the carbon leakage effect on the cement industry under the European Emissions Trading Scheme.*  
**Temì di discussione-Servizio Studi della Banca d'Italia**, vol. 899,  
ISSN: 1594-7939.
23. Oggioni G., Y. Smeers (2012).  
*Evaluating the application of different pricing regimes and low carbon investments in the European electricity market.*  
**Energy Economics**, vol. 34(5), pp. 1356-1369. ISSN: 0140-9883.
24. Riccardi, R., G. Oggioni, R. Toninelli (2012).  
*Efficiency analysis of world cement industry in presence of undesirable output: Application of data envelopment analysis and directional distance function.*  
**Energy Policy**, vol. 44, pp. 140-152. ISSN: 0301-4215.
25. Oggioni G., Y. Smeers (2012).  
*Degrees of Coordination in Market Coupling and Counter-Trading.*  
**The Energy Journal**, vol. 33(3), pp. 39-90. ISSN: 0195-6574.
26. Oggioni G., Y. Smeers, E. Allevi, S. Schaible (2012).  
*A Generalized Nash Equilibrium Model of Market Coupling in the European Power System.*  
**Networks and Spatial Economics**, vol. 12(4), pp. 503-560.  
ISSN: 1572-9427.

27. Oggioni G., R. Riccardi, R. Toninelli (2011). *Eco-efficiency of the world cement industry: A data envelopment analysis*. **Energy Policy**, vol. 39(5), pp. 2842-2854. ISSN: 0301-4215.
28. Oggioni G., R. Riccardi, R. Toninelli (2011). *The cement industry: Eco-efficiency country comparison using data envelopment analysis*. **Journal of Statistics & Management Systems**, vol. 14(6), pp. 1067-1102. ISSN: 0972-0510.
29. Bonenti F., G. Oggioni, E. Allevi, G. Marangoni (2011). *Evaluating the Impacts of the EU-ETS on Prices, Investments and Profits of the Italian Electricity Market*. **Nota di Lavoro, Fondazione Eni Enrico Mattei**, n. 99, ISSN: 2037-1209.
30. Oggioni G., Y. Smeers (2009). *Evaluating the Impact of Average Cost Based Contracts on the Industrial Sector in the European Emission Trading Scheme*. **Central European Journal of Operations Research (CEJOR)**, vol. 17, pp. 181-217. ISSN: 1435-246X.

## BOOK CHAPTERS

31. Dominguez R., M. Carrion, G. Oggioni (2017). *Toward a Fully Renewable European Electric Energy System*. In **Design the Electricity Market(s) of the Future**, Editor Rossetto Nicolò-European University Institute, pp. 31-38, ISBN: 978-92-9084-577-5. Available at: <https://fsr.eui.eu/wp-content/uploads/Ebook.pdf>

## PROCEEDINGS

32. Flammini, A., S. Rinaldi, M. Pasetti, P. Bellagente, A. Ciribini, L. Tagliabue, L. Zavanella, S. Zanoni, G. Oggioni, G. Pedrazzi (2018). *A Living Lab and Testing Infrastructure for the Development of Innovative Smart Energy Solutions: the eLUX Laboratory of the University of Brescia*. **IEEE-xplore. Proceedings AEIT International Annual Conference 2018**, Bari, October 3-5, 2018. DOI: 10.23919/AEIT.2018.8577329. ISBN: 978-8-8872-3740-5.
33. Oggioni G., Y. Smeers (2011). *Market Coupling and the Organization of Counter-Trading: Separating Energy and Transmission Again?*. **17th Power Systems Computation (PSCC 2011 Stockholm), Stockholm, Sweden 22-26 August 2011**. Curran Associates, Inc., pp. 894-900, vol. 2, ISBN: 978-1-61839-227-5. Available at: [http://www.psc-central.org/en/no\\_cache/background/papers-from-previous-psccs/pscc-2011-stockholm.html](http://www.psc-central.org/en/no_cache/background/papers-from-previous-psccs/pscc-2011-stockholm.html)
34. Oggioni G., I. Rumiantseva, Y. Smeers (2007). *Introduction of CO<sub>2</sub> Emission Certificates in a Simplified Model of the Benelux Electricity Network with Small and Industrial Consumers*. **IEEE-xplore. Proceedings International Conference on Clean Electrical Power (ICCEP 2007)**, Capri, May 21-23, 2007, pp. 291-298, ISBN: 1-4244-0632-3.

## PUBLICATIONS IN PAPER SERIES

35. Oggioni G., Y. Smeers (2011).  
*Investment Equilibrium Models under Emission Regulation and Different Energy Price Regimes.*  
**EPRG Working Paper, Cambridge**, n. 1112
36. Smeers Y., G. Oggioni, E. Allevi, S. Schaible (2010).  
*Generalized Nash Equilibrium and Market Coupling in the European Power System.*  
**EPRG Working Paper, Cambridge**, n. 1016.
37. Oggioni G., Y. Smeers (2010).  
*Market coupling and the organization of counter-trading: separating energy and transmission again?*  
**CORE Discussion paper**, n. 2010/53.
38. Oggioni G., Y. Smeers (2010).  
*Degree of coordination in market-coupling and counter-trading.*  
**CORE Discussion paper**, n. 2010/01.
39. Oggioni G., Y. Smeers (2008).  
*Equilibrium Models for the Carbon Leakage Problem.*  
**CORE Discussion Paper**, n. 2008/76.
40. Oggioni G., Y. Smeers (2008).  
*Average Power Contracts Can Mitigate Carbon Leakage.*  
**CORE Discussion Paper**, n. 2008/62.
41. Oggioni G., Y. Smeers (2008).  
*Evaluating the impact of average cost based contracts on the industrial sector in the European emission trading scheme.*  
**CORE Discussion Paper**, n. 2008/1.

## OTHER PUBLICATIONS

42. Allevi E., A. Gnudi, I.V. Konnov, G. Oggioni (2016).  
*Decomposition Method for Oligopolistic Competitive Models with Common Environmental Regulation.* **Optimization Online**. Available at  
[http://www.optimization-online.org/DB\\_HTML/2016/06/5476.html](http://www.optimization-online.org/DB_HTML/2016/06/5476.html)
43. Allevi E., A. Gnudi, I.V. Konnov, G. Oggioni (2016).  
*Evaluating the effect of environmental regulations on a closed-loop supply chain network: a variational inequality approach.* **Optimization Online**. Available at  
[http://www.optimization-online.org/DB\\_HTML/2016/06/5475.html](http://www.optimization-online.org/DB_HTML/2016/06/5475.html)
44. Oggioni G., C. Lanfranconi (2015).  
*Empirics of Intraday and Real-time Markets in Europe: Italy.* Available at:  
<http://www.econstor.eu/handle/10419/111267>
45. Allevi E., G. Oggioni, R. Riccardi, M. Rocco (2015).  
*The carbon leakage effect on the cement sector under different climate policies.*  
**Optimization Online**. Available at  
[http://www.optimization-online.org/DB\\_FILE/2015/02/4774.pdf](http://www.optimization-online.org/DB_FILE/2015/02/4774.pdf)
46. Oggioni G., R. Riccardi, R. Toninelli (2011).  
*Evaluating the efficiency of the cement sector in presence of undesirable output: a world based Data Envelopment Analysis.*  
**Rapporti di Ricerca del Dipartimento Statistica e Matematica Applicata all'Economia, Università di Pisa**, n. 344.
47. Oggioni G., R. Riccardi, R. Toninelli (2010).  
*Eco-efficiency of the world cement industry: A Data Envelopment Analysis.*  
**Rapporti di Ricerca del Dipartimento Statistica e Matematica Applicata all'Economia, Università di Pisa**, n. 341.

48. Oggioni G., R. Riccardi, R. Toninelli (2010).  
*The cement industry: eco-efficiency country comparison using Data Envelopment Analysis.*  
**Rapporti di Ricerca del Dipartimento Statistica e Matematica Applicata all'Economia, Università di Pisa, n. 333.**
49. Oggioni G. (2008).  
*Investments in the European Power Sector. How do the European Emission Trading Scheme and the Application of Special Contracts Matter? Part I: Formulation.*  
**Rapporti di Ricerca del Dipartimento Metodi Quantitativi, Università degli Studi di Brescia, n. 306.**
50. Oggioni G. (2008).  
*Investments in the European Power Sector. How do the European Emission Trading Scheme and the Application of Special Contracts Matter? Part II: Application.*  
**Rapporti di Ricerca del Dipartimento Metodi Quantitativi, Università degli Studi di Brescia, n. 307.**

## PH.D THESIS

51. Oggioni G. (2008).  
*Average Cost Power Contracts and CO<sub>2</sub> Burdens for Energy Intensive Industry.*  
**Ph.D. Thesis, Ecole polytechnique de Louvain, n. 186.**

## WORK IN PROGRESS

52. Basso A., G. Oggioni, R. Riccardi.  
*Efficiency valuation of Green stocks and portfolio construction: a two stage approach.*
53. Oggioni G., C. Pelizzari.  
*Hedging the Risk of Renewable Energy Sources in Electricity Production.*
54. Allevi E., M.E. De Giuli, R. Dominguez G. Oggioni  
*Modeling the waste-to-energy supply chain in a circular economy.*
55. Dominguez R., G. Oggioni, R. Riccardi, C. Ruiz.  
*Impact of introducing high CHP capacity in power systems with high intermittent power production.*

## PARTICIPATION TO EDITORIAL BOARD

*Guest Editor*

**Special Issue** on "Energy transition and decarbonization"  
**Journal:** Energy Economics, edited by Elsevier.  
**Guest editors:** Paolo Falbo, Giorgia Oggioni, Rossana Riccardi, Sergio Vergalli.

## MEMBERSHIP IN PROFESSIONAL SOCIETIES

- A.M.A.S.E.S. (Italian Mathematical Society for Social and Economical Sciences);
- AIRO (Italian Association of Operations Research);
- EURO (European Operations Research Society);
- INFORMS (Institute for Operations Research and the Management Sciences);
- Working Group on Generalized Convexity
- EWG EUROPT, Euro Working Group on Continuous Optimization
- EURO Working Group of Stochastic Programming
- INDAM-GNCS (Gruppo Nazionale per il Calcolo Scientifico)
- Member of the "Groupe Environnement" in the framework of the *Chair Lhoist Berghmans in Environmental Economics and Management*, CORE, Université catholique de Louvain, Belgium (September, 2005- August, 2009).

## REFEREE FOR INTERNATIONAL JOURNALS

*Journal Referee*

### **Referee of the following international journals:**

1. European Journal of Operational Research
2. Annals of Operations Research
3. Journal of Global Optimization
4. Mathematical Methods of Operations Research
5. Computer & Operations Research
6. Optimization and Engineering
7. Acta Mathematica Scientia
8. Applied Mathematical Modelling
9. FILOMAT
10. Quantitative Finance
11. Decisions in Economics and Finance
12. Journal of Applied Mathematics
13. British Journal of Mathematics & Computer Science
14. Networks and Spatial Economics
15. Energy Economics
16. The Energy Journal
17. Energy Policy
18. Applied Energy
19. Renewable Energy
20. Climate Policy
21. Journal of Cleaner Production
22. Journal of Environmental Management
23. IEEE Transactions on Power Systems
24. International Journal of Electrical Power and Energy Systems
25. Sustainability
26. Energy Sources, Part B: Economics, Planning, and Policy
27. Journal of Environmental Economics and Policy
28. Journal of Environmental Planning and Management
29. Journal of Energy Storage
30. Journal of Industrial Ecology

## **PARTICIPATION TO NATIONAL AND INTERNATIONAL RESEARCH PROJECTS**

*October 2016-  
October 2019*

**Responsible for the research team of the Department of Economics and Management of the University of Brescia of the Health&Wealth project: "Brescia 20-20-20".**

**Involved Departments:** Mechanical and Industrial Engineering, Information Engineering, Department of Economics and Management, University of Brescia, Italy.

**Project leader:** Prof. G. Beretta.

**Project financed by the University of Brescia and by external partners.**

*February,  
2015-present*

**Responsible for the University of Brescia of the agreement of research collaboration between the Italian Regulatory Authority for Energy, Networks and the Environment (ARERA) and the University of Brescia (Italy).**

- 2015-present **Member of the scientific team of the Health&Wealth Laboratory:**  
*"e-LUX-Energy Laboratory as University eXpo"*.  
 This laboratory is included the project (Piano Strategico d'Ateneo)  
*"Health&Wealth"* of the University of Brescia, Italy.  
**Laboratory leader:** Prof. A. Flammini.  
**Other members of the Laboratory scientific team:** Prof. Simone Zanoni,  
 Prof. Giorgio Pedrazzi, Prof. Giorgia Oggioni.
- 2010-2012 **Member of the project:** *"Integration methods for renewable sources of energy and monitoring by satellite of the environmental impact: Equilibrium in the energy market"*, team of Brescia.  
**Involved Universities:** University of Brescia and University of Bergamo, Italy.  
**Project financed by the Lombardy Region.**  
**Responsible of the University of Brescia research team:** Prof. E. Allevi.
- 2007-2008 **Member of the integrated action Italy-Belgium on:** *"Models for the electricity markets"*, University of Bergamo (Italy) and Université catholique de Louvain (Belgium).
- 2007-2009 **Member of the PRIN 2006 project:** *"Generalized monotonicity: models and applications"*, unit of Brescia, University of Brescia, Italy.  
**Project and University of Brescia research team responsible:** Prof. E. Allevi.

## CONSULTANCY ACTIVITIES

- March-July, 2015 **Contract for consultancy activity** assigned by DIW Berlin (German Institute for Economic Research) in the framework of the project #29737:  
*"EUREEM- National practices in intraday and balancing markets: Experience and perspectives"* funded by the German Federal Ministry for Economic Affairs and Energy (Funding Number: 03MAP274).  
**Project leader:** Prof. Karsten Neuhoff (DIW Berlin).  
**Other project participants:** C. Batlle, G. Brunekreeft, C.V. Konstantinidis, C. Nabe, G. Oggioni, P. Rodilla, S. Schwenen, T. Siewierski, G. Strbac.

## FUNDS RECEIVED FOR HOSTING FOREIGN RESEARCHERS (FONDI PER ATTIVITÀ A CARATTERE INTERNAZIONALE)

- Responsibility** of research funds granted by the University of Brescia for supporting short visiting periods of foreign researchers at the Department of Economics and Management of the University of Brescia.
- 2020 **Funds received as principal investigator** for inviting  
**Prof. Igor V. Konnov**, Department of System Analysis and Information Technologies, Kazan Federal University, Russia.
- 2019 **Funds received as principal investigator** for inviting  
**Prof. G. Zöttl**, Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), School of Business, Economics and Society, Germany.
- 2019 **Funds received as principal investigator** for inviting  
**Prof. A. Nagurney**, Department of Operations and Information Management, Isenberg School of Management, University of Massachusetts Amherst, USA.
- 2018 **Funds received as principal investigator** for inviting  
**Prof. R. Dominguez**, Escuela de Ingeniería Industrial, Universidad de Castilla-la Mancha, Toledo, Spain.



- 2018 **Funds received as principal investigator** for inviting **Prof. A. Lisser**, Laboratoire de Recherche en Informatique (LRI), Université Paris Sud, Orsay Cedex, France.
- 2016 **Funds received as principal investigator** for inviting **Prof. R. Dominguez**, Escuela de Ingeniería Industrial, Universidad de Castilla-la Mancha, Toledo, Spain.
- 2015 **Funds received as principal investigator** for inviting **Prof. C. Ruiz**, Universidad Carlos III de Madrid, Madrid, Spain.
- 2014 **Funds received as principal investigator** for inviting **Prof. Y. Smeers**, CORE, Université catholique de Louvain, Belgium.

## ORGANIZATION OF WORKSHOPS

- April, 2021 **Chair** of both the scientific and the organizing committees of the 2nd edition of the Workshop *“Variational Analysis and Applications for Modelling of Energy Exchange - VAME”*, Department of Economics and Management, University of Brescia, Italy.
- February 6-7, 2020 **Member of program committee** and **member of the organizing committee** of the Workshop *“Energy Transaction and Decarbonization”* that will be held during the *Eighth IAERE Annual Conference*, Department of Economics and Management, University of Brescia, Italy.
- October 10-11, 2019 **Member of scientific committee** and **member of the organizing committee** of the Workshop *“First International Workshop on Water and Waste Management”*, Department of Economics and Management, University of Brescia, Italy.
- April 26-27, 2019 **Member** of the organizing committee of the Workshop *“Investments, Energy and Green Economy”*, Department of Economics and Management, University of Brescia, Italy.
- March 19-20, 2012 **Member** of the organizing committee of the Workshop *“First French-Italian Workshop on Energy Markets and Models (FIWEM1)”*, Department of Economics and Management, University of Brescia, Italy.

## ORGANIZATION OF CONFERENCE SESSIONS

- **Organizer of the following conference sessions**

- 2018 **Organizer of the session** *“Operation and planning problems for Energy and Environment”* in the Conference Optimization and Decision Science-XLVIII Annual Meeting of the Italian Operations Research Society (AIRO), Taormina, Italy.
- 2017 **Organizer of the session** *“Green economy, energy and sustainability: models and methods”* in the 41st Meeting of the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES), Cagliari, Italy.
- 2016 **Organizer of the session** *“Energy, Environment and Sustainability”* in the 40th Meeting of the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES), Catania, Italy.

## ORGANIZATION OF SEMINARS/WEBINAR

- **Organizer of the following seminars/webinar at the Department of Economics and Management, University of the Brescia, Italy**

- December 1, 2020 **Organizer of the webinar** *"Equilibrium Approach to Relative Optimization Problems"*.  
**Invited Speaker: Prof. I.V. Konnov**, Department of System Analysis and Information Technologies, Kazan University, Russia.
- November 17, 2020 **Organizer of the webinar** *"Power systems with high presence of electric vehicles: Mathematical modeling and optimization"*.  
**Invited Speaker: Prof. M. Carrión** Universidad de Castilla-La Mancha, Toledo, Spain.
- November 5, 2020 **Organizer of the webinar** *"On the Use of a Convex Model for Bulk Storage in MIP-Based Power System Operation and Planning"*.  
**Invited Speaker: Prof. L. Baringo**, Universidad de Castilla-La Mancha, Ciudad Real, Spain.
- October 8, 2019 **Organizer of the seminar** *"Mechanisms to Coordinate Storage Investment and Network Expansion in Distribution Networks"*.  
**Invited Speaker: Prof. G. Zöttl**, Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), School of Business, Economics and Society, Germany.
- April 9, 2019 **Organizer of the seminar** *"Introduction to chance constrained games"*.  
**Invited Speaker: Prof. A. Lissier**, Laboratoire de Recherche en Informatique (LRI), Université Paris Sud, Orsay Cedex, France.
- March 1, 2019 **Organizer of the seminar** *"Selective bi-coordinate method for limit optimization problems"*.  
**Invited Speaker: Prof. I.V. Konnov**, Department of System Analysis and Information Technologies, Kazan University, Russia.
- December 3, 2018 **Organizer of the seminar** *"Optimization under uncertainty in electricity markets"*.  
**Invited Speaker: Prof. R. Domínguez**, Escuela de Ingeniería Industrial, Universidad de Castilla-la Mancha, Toledo, Spain.
- June 12, 2018 **Organizer of the seminar** *"Towards renewable-dominated electric energy systems"*.  
**Invited Speaker: Prof. R. Domínguez**, Escuela de Ingeniería Industrial, Universidad de Castilla-la Mancha, Toledo, Spain.
- March 2, 2018 **Organizer of the seminar** *"Selective bi-coordinate variations for optimization problems with Simplex type constraints"*.  
**Invited Speaker: Prof. I.V. Konnov**, Department of System Analysis and Information Technologies, Kazan University, Russia.
- May 23, 2017 **Organizer of the seminar** *"Application of Stochastic and Adaptive Robust Optimization to Planning and Operation Problems in Power Systems"*.  
**Invited Speaker: Prof. L. Baringo**, Escuela Técnica Superior de Ingenieros Industriales, Universidad de Castilla-La Mancha, Ciudad Real, Spain.
- February 21, 2017 **Organizer of the seminar** *"Sequential Threshold Control in Descent Methods for Decomposable Optimization Problems"*.  
**Invited Speaker: Prof. I.V. Konnov**, Department of System Analysis and Information Technologies, Kazan University, Russia.
- March 9, 2016 **Organizer of the seminar** *"Computing the CVaR-Nash Equilibrium of the Relationship between Spot and Futures Markets in the Electricity Supply Chain"*.  
**Invited Speaker: Prof. C. Ruiz**, Universidad Carlos III de Madrid, Madrid, Spain.
- January 22, 2016 **Organizer of the seminar** *"An Alternative Economic Equilibrium Model with Different Implementation Mechanisms"*.  
**Invited Speaker: Prof. I.V. Konnov**, Department of System Analysis and Information Technologies, Kazan University, Russia.
- October 9, 2015 **Organizer of the seminar** *"Planning and Operations in Fully Renewable Electric Energy Systems"*.  
**Invited Speaker: Prof. R. Domínguez**, Escuela de Ingeniería Industrial, Universidad de Castilla-la Mancha, Toledo, Spain.

- March 18, 2015      **Organizer of the seminars** “*Sequential Approach for Management of Renewable Natural Resources*” and “*Nonstationary Models of Telecommunication Systems*”.  
**Invited Speaker: Prof. I.V. Konnov**, Department of System Analysis and Information Technologies, Kazan University, Russia.
- December 19, 2012      **Organizer of the seminars** “*The European Gas Target Model (GTM) and economic modelling*”.  
**Invited Speaker: Prof. Y. Smeers**, CORE, Univerisité catholique de Louvain, Belgium.

## PARTICIPATION TO CONFERENCES AND WORKSHOPS UPON INVITATION (WITH PRESENTATIONS)

- July 16-20, 2007      **6th International Congress on Industrial and Applied Mathematics (ICIAM 2007)**, ETH and University of Zurich, Zurich, Switzerland.  
**Presentation in the invited session:** “*Dynamics of equilibrium problems via game theory, evolutionary variational inequalities, complementarity and projected dynamical systems*”.
- July 5-8, 2009      **23rd European Conference on Operational Research (EURO 2009)**, Bonn, Germany.  
**Presentation in the invited session:** “*Application of MP to Spatial Systems*”.  
Stream: Mathematical Programming.
- July 11-14, 2010      **24th European Conference on Operational Research (EURO 2010)**, Lisbon, Portugal.  
**Presentation in the invited session:** “*Optimal policy in the energy markets*”.  
Stream: Energy, Environment and Climate.
- September 6-9, 2011      **42th Annual Conference of the Italian Operations Research Society, (AIRO)**, “*Operational Research in Transportation and Logistics*”, University of Brescia, Italy.  
**Presentation in the invited session:** “*Modelling European Emission Trading Scheme for energy and industrial sectors*”.
- June 25-28, 2012      **SIMAI 2012**, Politecnico di Torino, Italy.  
**Presentation in the invited session:** “*Quasi-variational inequalities, generalized Nash equilibrium problems and applications*”.
- July 8-11, 2012      **25th European Conference on Operational Research (EURO 2012)**, Vilnius, Lithuania.  
**Presentation in the invited session:** “*Mathematical methods for decision support in energy and industrial sectors*”. Stream: Iterative Methods for Economic Models.
- September 4-7, 2012      **39th Annual Conference of the Italian Operations Research Society, (AIRO)**, “*Graph Algorithms and Optimization*” Vietri sul Mare, Italy.  
**Presentation in the invited session:** “*Optima and Equilibria: Theory and Applications*”.
- July 1-4, 2013      **26th European Conference on Operational Research (EURO-INFORMS 2013)**, Roma, Italy.  
**Presentation in the invited session:** “*Mathematical methods for decision support in energy and industrial sectors*”. Stream: Mathematical methods for decision support.
- July 13-18, 2014      **20th Conference of the International Federation of Operational Research Societies (IFORS 2014)**, Barcelona, Spain.  
**Presentation in the invited session:** “*Dealing with Uncertainty and Renewable Sources Electricity Markets*”. Stream: Technical and Financial Aspects of Energy Problems.
- September 25-26, 2014      **First Workshop on Variational inequalities, Nash equilibrium problems and applications (VINEPA)**, University of Catania, Italy.  
**Invitation as keynote speaker.**

- May 28-29, 2015      **Invited speaker in the “Berlin Conference on Energy and Electricity Economics” (BELEC 2015)**, DIW Berlin, Berlin, Germany.
- September 7-10, 2015      **45th Annual Conference of the Italian Operations Research Society (AIRO) “Optimization for Energy, Environment and Sustainability”**, Pisa, Italy.  
**Presentation in the invited session: “Equilibrium models: theory and application features”.**
- September 15-17, 2016      **40th Meeting of the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES)**, Catania, Italy.  
**Presentation in the organized session: “Energy, Environment and Sustainability”.**
- October 13, 2016      **Invited speaker in the Workshop “Mercati Energetici e Metodi Quantitativi: un Ponte tra Università e Aziende”**, Edition 2016, University of Padova, Italy.
- July 12-14, 2017      **15th Workshop on Advances in Continuous Optimization (EUROPT 2017)**, Montréal, Canada.  
**Presentation in the invited session: “Variational Problems and Applications I”.**
- July 17-21, 2017      **21st Conference of the International Federation of Operational Research Societies (IFORS 2017)**, Québec City, Canada.  
**Presentation in the invited session: “Operation and planning problems in electric energy systems”.** Stream: Technical and financial aspects of energy problems.
- September 14-16, 2017      **41st Meeting of the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES)**, Cagliari, Italy.  
**Presentation in the organized session: “Green economy, energy and sustainability: models and methods”.**
- October 12, 2017      **Invited speaker in the Workshop “Mercati Energetici e Metodi Quantitativi: un Ponte tra Università e Aziende”**, Edition 2017, University of Padova, Italy.
- July 1-6, 2018      **23rd International Symposium in Mathematical Programming 2018 (ISMP 2018)**, Bordeaux, France.  
**Presentation in the invited session: “Decomposition Techniques to Solve Large-Scale Optimization Problems for Electricity and Natural Gas Systems”.**
- July 12-13, 2018      **16th Workshop on Advances in Continuous Optimization (EUROPT 2018)**, Almería, Spain.  
**Presentation in the invited session: “Variational Inequalities in Economic Problems”.**
- September 10-13, 2018      **Optimization and Decision Science-XLVIII Annual Meeting of the Italian Operations Research Society (AIRO)**, Taormina, Italy.  
**Presentation in the invited session: “Operation and planning problems for Energy and Environment”.**
- September 13-15, 2018      **42nd Meeting of the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES)**, Naples, Italy.  
**Presentation in the invited session: “Approximation methods for equilibria”.**
- June 23-26, 2019      **30th European Conference on Operational Research (EURO 2019)**, Dublin, Ireland.  
**Presentation in the invited session: “Toward sustainable electric energy systems”.** Stream: Technical and Financial Aspects of Energy Problems.
- September 9-11, 2019      **43rd Meeting of the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES)**, Perugia, Italy.  
**Presentation in the invited session: “Advances on Dynamics, Economic Control and Variational Analysis”.**

## SEMINARS GIVEN UPON INVITATION

- May 23, 2019 **Seminar upon invitation** at the Department of Economics, University of Genoa, Italy.  
**Seminar title:** *“Reserve procurement and flexibility services in power systems with high renewable capacity: effects of integration on different designs”*
- October 21, 2016 **Seminar upon invitation** at the Italian Regulatory Authority for Energy, Networks and the Environment (ARERA).  
**Seminar title:** *“Reserve procurement in power systems with high renewable capacity: How does the time framework matter?”*
- May 20, 2015 **Seminar upon invitation** at the Department of Economics and Management, University of Pisa, Italy.  
**Seminar title:** *“Evaluating the effects of environmental regulations on a closed-loop supply chain network: a variational inequalities approach.”*
- February 21, 2014 **Seminar upon invitation** at the Italian Regulatory Authority for Energy, Networks and the Environment (ARERA).  
**Seminar title:** *“Modeling Market Coupling in the European Electricity Market.”*
- November 11, 2007 **Seminar upon invitation** at CORE, Université catholique de Louvain, Belgium.  
**Seminar title:** *“Investments in Power Sector under the European Emission Trading Scheme.”*
- May 3, 2007 **Seminar upon invitation** at CORE, Université catholique de Louvain, Belgium.  
**Seminar title:** *“Evaluating the Impact of Average Cost Based Contracts on the Industrial Sector in the European Emission Trading Scheme.”*

## PARTICIPATION TO CONFERENCES AND WORKSHOPS (WITH PRESENTATIONS)

- June 5-9, 2006 **INTAS Summer School “Nonlinear Analysis with Applications in Economics, Energy and Transportation”**, University of Bergamo, Italy.
- September 12-15, 2006 **XXXVII Annual Conference of the Italian Operations Research Society (AIRO) “Urban and Regional Logistic and Transportation: New Challenges for Modeling and Optimization”**, Cesena-Rimini, University of Bologna, Italy.
- October 6-7, 2006 **5th Conference of Applied Infrastructure Research (INFRATRAIN) “Sustainable Infrastructure Financing in Europe under the conditions of Competition, Regulation, Environmental Concern and Institutional Change”**, TU Berlin, Germany.
- May 21-23, 2007 **International Conference on Clean Electrical Power (ICCEP 2007)**, University of Naples, Federico II, Italy.
- July 8-11, 2007 **22nd European Conference on Operational Research (EURO 2007)**, Prague, Czech Republic.
- February 29, 2008 **Belgian Environmental Economics Day (BEED)**, Hogeschool, Universiteit Brussels campus HUB-ESHAL, Brussels, Belgium.
- July 21-25, 2008 **9th International Symposium on Generalized Convexity and Generalized Monotonicity**, National Sun Yat-set University, Kaohsiung, Taiwan
- September 1-4, 2008 **32th Meeting of the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES)**, Trento, Italy
- June 16, 2009 **Research Workshop, Climate Policy and Long Term Decisions-Investment and R&D**, Bocconi University, Milan, Italy.
- September 1-4, 2009 **33th Meeting of the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES)**, University of Parma, Italy.
- August 30-September 2, 2011 **International Conference on Operations Research (OR 2011)**, ETH and University of Zurich, Zurich, Switzerland.

- September 15-17, 2011 **35th Meeting of the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES)**, University of Pisa, Italy.
- March 19-20, 2012 **First French-Italian workshop on energy markets and models (FIWEM?1)**, University of Brescia, Italy.
- October 14-17, 2012 **INFORMS Annual Meeting 2012**, Phoenix, Arizona, U.S.A.  
**Presentation in the contributed session: "Energy Generation"**.
- November 22-23, 2012 **Workshop on "Energy, Air Quality and Sustainability: Models and Evidences"**, University of Bergamo, Italy.
- September 5-7, 2013 **37th Meeting of the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES)**, Stresa, Italy.
- July 10-12, 2014 **12th Workshop on Advances in Continuous Optimization (EUROPT 2014)**, Perpignan, France.
- September 5-7, 2014 **38th Meeting of the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES)**, Reggio Calabria, Italy.
- October 23-25, 2014 **Italian Society of Economists. 55th Annual Scientific Meeting**, Trento, Italy.
- March 27, 2015 **Workshop #8 of the Future Power Market Platform on "Balancing Markets in Europe: Quo Vadis?"**, DIW Berlin, Berlin, Germany.
- July 10-12, 2015 **13th Workshop on Advances in Continuous Optimization (EUROPT 2015)**, Edinburgh, UK.
- August 28-September 5, 2015 **International Workshop on "Variational Analysis and Applications"**, Erice, Italy.
- September 10-12, 2015 **39th Meeting of the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES)**, Padova, Italy.
- October 30, 2015 **Workshop #10 of the Future Power Market Platform on "Balancing Responsibility: What model works for Europe?"**, AEEGSI, Milan, Italy.
- June 1-3, 2016 **Computational Management Science Conference (CMS 2016)**, Salamanca, Spain.
- July 1-2, 2016 **14th Workshop on Advances in Continuous Optimization (EUROPT 2016)**, Warsaw, Poland.
- October 6-7, 2016 **Third Workshop on Variational inequalities, Nash equilibrium problems and applications (VINEPA)**, University of Catania, Italy.
- December 5-6, 2016 **Conference "Energy Finance Italia II"**, University of Padova, Italy.
- January 15-21, 2017 **PhD Winter School 2017 "Stochastic programming with applications in energy, logistics and finance"**, Passo del Tonale, Italy.
- May 4-5, 2017 **Variational Analysis and Applications for Modelling of Energy Exchange**, Perpignan, France.
- May 30-31, June 1, 2017 **Computational Management Science Conference (CMS 2017)**, Bergamo, Italy.
- March 8-9, 2018 **Fourth Workshop on Variational inequalities, Nash equilibrium problems and applications (VINEPA)**, Reggio Calabria, Italy.
- June 18-22, 2018 **International Workshop on Bilevel Programming (IWOBIP 18)**, Lille, France.
- June 28-29, 2019 **17th Workshop on Advances in Continuous Optimization (EUROPT 2019)**, Glasgow, UK.
- October 10-11, 2019 **First International Workshop on Water and Waste Management**, Brescia, Italy.

## SCHOOLS, WORKSHOP AND CONFERENCES ATTENDED

- June 17-18, 2005 **International Summer School on "Risk Measurement and Control"**, Istituto Svizzero di Roma, Italy.
- June 28-29, 2005 **8Th Italian-Spanish Meeting on Financial Mathematics**, Verbania, Italy.
- October 4-8, 2005 **INFRATRAN Electricity Sector Modelling "Infrastructure Economics-Theory and Policy"**, TU Berlin, Germany.
- June 5-9, 2006 **INTAS Summer School "Nonlinear Analysis with Applications in Economics, Energy and Transportation"**, University of Bergamo, Italy.
- April 10-20, 2007 **Spring School 2007. Stochastic Programming: theory and applications**, University of Bergamo, Italy.
- July 15-19, 2008 **2nd Summer School on Generalized Convexity and Generalized Monotonicity** organized by the Working Group on Generalized Convexity/Monotonicity, Department of Applied Mathematics, University of Sun Yat-sen Kaohsiung, Taiwan.
- July 20-24, 2009 **Advanced Course on Optimization: Theory, Methods and Applications** Centre de Recerca Matemàtica, Universitat Autònoma de Barcelona, Spain.
- January 28-29, 2010 **The Economics of Energy Markets, Institut d'Economie Industrielle and Toulouse School of Economics**, Université Toulouse 1 Capitole, Toulouse, France.
- June 21-25, 2010 **CORE Lecture Series OR: Stochastic programming: Modeling and Theory by Alexander Shapiro** CORE, Belgium.
- June 30-July 3, 2010 **Discrete Dynamical Systems and Applications. Tutorial Workshop.** University of Urbino, Italy.
- June 15-16, 2010 **The Economics of Energy Markets, Institut d'Economie Industrielle and Toulouse School of Economics**, Université Toulouse 1 Capitole, Toulouse, France.
- February 6-March 5, 2012 **Stochastic Programming Course**, University of Milan-Bicocca, Italy.
- June 4-5, 2012 **Workshop on "Optimization"**, Politecnico di Milano, Italy.
- July 3-6, 2012 **Special Workshop of Stochastic Programming Community (StoProg-2012) "Stochastic Programming for Implementation and Advanced Applications"**, Neringa, Lithuania.
- October 18, 2012 **Seminar by Prof. Zitkovic Gordan (University of Texas at Austin) "On facelifting in mathematical finance"**, Columbia University, USA.
- October 19, 2012 **Seminar by Prof. Rassoul-Agha Firas (University of Utah) "Busemann functions and free energy for random polymers and last passage percolation"**, Columbia University, USA.
- July 8-12, 2013 **International conference on stochastic programming**, University of Bergamo, Italy.
- October 8, 2015 **Conference "Mercati Energetici e Metodi Quantitativi: un Ponte tra Università e Aziende"**, Edition 2015, University of Padova, Italy.
- November 19, 2015 **N-SIDE Conference "Innovation in Energy Management: Make Green Efficient"**, Louvain-la-Neuve, Belgium.
- February 17, 2017 **Workshop of the Future Power Market Platform on "Coordinated Balancing"**, Berlin, Germany.
- October 18, 2018 **Workshop "Mercati Energetici e Metodi Quantitativi: un Ponte tra Università e Aziende"**, Edition 2018, University of Padova, Italy.

Brescia, June 30, 2021