



OPTIMAL CONTROL PROBLEMS AND MEAN FIELD GAMES IN LIFE SCIENCES AND ECONOMICS

December 12-13, 2024

Aula Saraceno – San Giobbe Economic Campus
(Cannaregio 813/A – Venice)

The objective of the workshop is to gather mathematicians working on optimal control problems, and mean field games with a particular emphasis on applications to economics and social sciences. It is an opportunity to discuss new research topics and to exchange ideas on open issues and projects.

THURSDAY 12 DECEMBER

14.15 - 14.35 **Welcome of participants and opening remarks**

14.35 - 15.10 **Paola Goatin** - INRIA, Sophia Antipolis, *Multi-class and multi-population traffic flow models on networks*

15.10 - 15.45 **Fabio Bagagiolo, Federico Pontiroli** - Università degli Studi di Trento, *The petrol station game: the regional average price. A mean-field analysis*

15.45 - 16.20 **Rosario Maggiro** - Università degli Studi di Trieste, *Spatial interaction effects on transboundary pollution control*

16.20 - 16.50 Break

16.50 - 17.25 **Daria Ghilli** - Università degli Studi di Pavia, *Understanding the quality of the environment: act local, think global?*

17.25 - 18.00 **Alessandra Buratto** - Università degli Studi di Padova, *Controlling an Evolutionary Game to limit clientelism*

18.00 - 18.35 **Elena Sartori** - Università degli Studi di Padova, *Switching times in mean field games*

18.35 - 19.10 **Tiziano Vargiolu** - Università degli Studi di Padova, *Optimal reinstallation of photovoltaic panels: a mean-field game*

19.45 - 22.00 Social Dinner at Laguna Libre Ecoristorante, Cannaregio 969, Venezia, www.lagunalibre.it

FRIDAY 13 DECEMBER

9.40 - 9.50 **Welcome of participants**

9.50 - 10.25 **Giorgia Callegaro** - Università degli Studi di Padova, *Continuous-time persuasion by filtering*

10.25 - 11.00 **Beatrice Ongarato** - Università degli Studi di Padova, *Cyber-Security Investment in a Dynamic Version of the Gordon-Loeb Model*

11.00 - 11.30 Break

11.30 - 12.05 **Davide Redaelli** - Università degli Studi di Padova, *Differential games with sparse interactions and infinite-dimensional systems of nonlinear PDEs*

12.05 - 12.40 **Michele Ricciardi** - Luiss Guido Carli, *Mean Field Games and Master Equation in infinite dimension: new results and applications*

12.40 - 13.15 **Salvatore Federico** - Università di Bologna, *Existence and Uniqueness Results for a Mean-field game of optimal investment*

13.15 - 14.45 Lunch

14.45 - 15.20 **Paola Mannucci** - Università degli Studi di Padova, *Deterministic Mean Field Games with noncoercive Hamiltonian*

15.20 - 15.55 **Claudio Marchi** - Università degli Studi di Padova, *Deterministic Mean Field Games on Networks*

15.55 - 16.30 **Paolo Dai Pra** - Università degli Studi di Verona, *Long Range Games*

16.30 - 17.05 **Fausto Gozzi** - Luiss Guido Carli, *On mean field games in infinite dimension*

Organizing and Scientific Committee

Silvia Faggian

Università Ca' Foscari Venezia

Raffaele Pesenti

Università Ca' Foscari Venezia

Marco Tolotti

Università Ca' Foscari Venezia

Sign up here to participate

<https://forms.gle/vTa1WyK2BocCkyu77>

