

Workshop on Dynamic Games and Applications
Université Paris-Panthéon-Assas, October 26-27, 2023
Final Program

Thursday, October 26

- 8:30 – 8:50** **Registration**
- 8:50 – 9:00** **Welcome address**
- 9:00 – 9:45** **Invited talk 1, Chair: Bertrand Crettez**
- International Environmental Agreements: Preferences, Stability and Effectiveness
Michèle Breton
- 9:45 – 10:15** **Break**
- 10:15 - 12:30** **Session 1, Chair: Florian Wagener**
- 10:15 - 10:40** The Evolutionary Dynamics of Costly Signaling
Josef Hofbauer, **Christina Pawlowitsch**
- 10:40 - 11:05** Recursive Procedure for Game Space Decomposition in Differential Game
with Bounded Controls
Valery Y. Glizer, **Vladimir Turetsky**
- 11:05 - 11:30** Understanding the Strategic Dynamics of the Thucydides Trap
Emin Karagözoğlu, Kerim Keskin, **Çağrı Sağlam**
- 11:30 - 11:40** **Break**
- 11:40 - 12:05** Feedback Stackelberg-Nash Equilibria in Quasi-Hierarchical Difference Games
with Inequality Constraints
Partha Sarathi Mohapatra, Puduru Viswanadha Reddy, Georges Zaccour
- 12:05 - 12:30** Consecutive Patent Races with Industry-Wide Knowledge Accumulation
Hsin-Mien Wang, **Florian Wagener**
- 12:30 – 14:00** **Lunch**

- 14:00 – 15:40** **Session 2, Chair: Nikolaos Pnevmatikos**
- 14:00 - 14:25** Robustness and Sample Complexity of Model-Based Reinforcement Learning for General-Sum Markov Games
Jayakumar Subramanian, Amit Sinha, **Aditya Mahajan**
- 14:25 - 14:50** Capacity Coordination in a Duopoly with Perfect Cournot Complements
Bertrand Crettez, Naila Hayek, Guiomar Martín-Herrán
- 14:50 - 15:15** Output Feedback Guaranteed Cost Equilibria in Infinite-Horizon Linear-Quadratic Differential Games
Aniruddha Roy, **Puduru Viswanadha Reddy**
- 15:15 - 15:40** Simple Relational Contracts and the Dynamics of Social Capital
Mathieu Leduc
- 15:40 – 16:10** **Break**
- 16:10 – 18:25** **Session 3, Chair: Santiago J. Rubio**
- 16:10 - 16:35** Resource Mobility and Market Performance
Luca Colombo, **Paola Labrecciosa**
- 16:35 - 17:00** Dynamic Pricing, Objective and Subjective Quality, and the Price-Quality Relationship
Domenico De Giovanni, **Régis Chenavaz**
- 17:00 - 17:25** Positional and Conformist Effects in Public Good Provision: Strategic Interaction and Inertia
Francisco Cabo, Alain Jean-Marie, **Mabel Tidball**
- 17:25- 17:35** **Break**
- 17:35 - 18:00** Setting Interim Deadlines to Persuade
Maxim Senkov
- 18:00 - 18:25** Cournot Competition, Emission Taxation and Green Innovation in a Dynamic Setting
Guiomar Martín-Herrán, **Santiago J. Rubio**
- 19:00** **Cocktail**

Friday, October 27

- 8:30 – 9:00** **Breakfast & Coffee**
- 9:00 – 9:45** **Invited talk 2, Chair: Naila Hayek**
- Information Issues in Mean Field Games
Pierre Cardaliaguet
- 9:45 – 10:15** **Break**
- 10:15 - 12:30** **Session 4, Chair: George P. Papavassilopoulos**
- 10:15 - 10:40** Strategic Considerations of Critical Mineral Depletion, and Recycling Under Markovian Competition
Weihua Ruan, **Benteng Zou**
- 10:40 - 11:05** Effect of Pre-Game Perception-Level Neighbor Interactions on Evolution of Cooperation in a Spatial Multigame
Ömer Durukan Kılıç, Hürevren Kılıç
- 11:05 - 11:30** A Multilayer Approach to a Networked Sanction Game with Transferrable Utility
Toby Willis, Giuliano Punzo
- 11:30 - 11:40** **Break**
- 11:40 - 12:05** Representation and Scalability of Extensive-Form Games
Paolo Zappalà, Amal Benhamiche, Matthieu Chardy, Francesco De Pellegrini, Rosa Figueiredo
- 12:05 - 12:30** Hedging Option Policies Affecting the Stock Price Evolution
George P. Papavassilopoulos, Petros A. Ioannou
- 12:30 – 14:00** **Lunch**
- 14:00 – 15:40** **Session 5, Chair: Elena Parilina**
- 14:00 - 14:25** Risk Aversion in Information Cascades
Elizaveta Zelnitskaia
- 14:25 - 14:50** Strategic Influence over Continuous Social Networks
Julian Chitiva, Xavier Venel
- 14:50 - 15:15** Investment in Abatement Capacity when Consumers Value the Environmental Performance of the Supply Chain
Lijue Lu, Elena Parilina, Georges Zaccour

- 15:15 - 15:40** Payment Schemes for Sustaining Cooperation in Dynamic Games Played over Event Trees
Elena Parilina, Georges Zaccour
- 15:40 – 16:10** **Break**
- 16:10 – 18:25** **Session 6, Chair: Georges Zaccour**
- 16:10 - 16:35** Oligopoly Exploitation of Common-Pool Non-Renewable Resources: Price vs Quantity Competition
Luca Colombo, Paola Labrecciosa
- 16:35 - 17:00** Tournesol: The Game-Theoretical Challenges of Developing a Secure Online Collaborative Platform
Lê Nguyễn Hoàng
- 17:00 - 17:25** Spatial Competition à la Hotelling with Multiple Vendors and Multiple Types of Goods
Emily Tanimura
- 17:25 - 17:50** Beyond the classical Hamilton's rule: State distribution asymmetry and the dynamics of altruism
Krzysztof Argasinski
- 20:00** **Workshop dinner**
Restaurant La Coupole
102 Boulevard du Montparnasse, 75014 Paris