

Workshop on Dynamic Games and Applications
October 17-18, 2024
Final Program

Université Paris-Panthéon-Assas

Le Patio

Centre Assas

92, rue d'Assas, 75006 Paris

Thursday, October 17

- 9:15 – 9:55** **Registration and coffee (Patio)**
9:55 – 10:00 **Welcome address (Patio)**
- 10:00 – 11:00** **Invited talk 1, Chair: Bertrand Crettez (Patio)**
- An “indiscrete” dynamic incursion into static discrete choice theory
Roland Malhamé
- 11:00 – 11:30** **Break (Patio)**
- 11:30 – 12:30** **Invited talk 2, Chair: Naila Hayek (Patio)**
- A belief-based approach to signaling
Marie Laclau
- 12:30 – 14:00** **Lunch (Patio)**
- 14:00 – 16:00** **Session 1A, Chair: Christina Pawlowitsch (Room 506)**
- 14:00 - 14:30** On the discrete-time origins of the replicator dynamics: From convergence to instability and chaos
Fryderyk Falniowski, Panayotis Mertikopoulos
- 14:30 - 15:00** Evolutionary game with stochastic payoffs in a finite island model
Dhaker Kroumi, Sabin Lessard
- 15:00 - 15:30** Discretely imitate or innovate in population games: unpredictability in revision-driven game dynamics
Jakub Bielawski, **Lukasz Cholewa**, Fryderyk Falniowski
- 15:30 - 16:00** Evolutionary dynamics of pleasure-giving signals: the “beer-quiche” game
Josef Hofbauer, **Christina Pawlowitsch**

- 14:00 – 16:00** **Session 1B, Chair: Florian Wagener (Patio)**
- 14:00 - 14:30** What does a dynamic oligopoly maximize? The continuous time Markov case
Juan Pablo Rincón–Zapatero
- 14:30 - 15:00** Partially observable zero sum-games with piecewise deterministic Markov dynamics
Arnab Bhabak, K.S. Mallikarjuna Rao
- 15:00 - 15:30** Difference games in presence of asymptotical constraints
Naila Hayek
- 15:30 - 16:00** Global analysis of a differential game
Florian Wagener
- 16:00 - 16:30** **Break (Patio)**
- 16:30 – 18:00** **Session 2A, Chair: Régis Chenavaz (Room 506)**
- 16:30 - 17:00** Demand Learning in Dynamic Supply Chains
Olivier Rubel
- 17:00 - 17:30** A Game Model for Primitive Economic Exchange
Anirban Ghatak, **Vikrant Kala**
- 17:30 - 18:00** Pricing, goodwill, and the Veblen effect
Régis Chenavaz
- 16:30 – 18:00** **Session 2B, Chair: Elena Parilina (Patio)**
- 16:30 - 17:00** Can a Social Planner Manipulate Network Dynamics and Solve Coordination Problems?
Zaruhi Hakobyan
- 17:00 - 17:30** The Game of Cops and Robbers on Digraphs
Shravan Luckraz, Gafurjan Ibragimov
- 17:30 - 18:00** Dynamically stable partitions in networks with the cost dependent on neighborhood composition
Ping Sun, **Elena Parilina**
- 19:00** **Cocktail**
Appartement Décanal, Centre Panthéon, 12 place du Panthéon, 75005

Friday, October 18

- 9:00 – 10:30** **Session 3A, Chair: Agnieszka Wiszniewska-Matyskiel (Room 707)**
- 9:00 - 9:30** *Heterogeneity, Reinforcement Learning and Chaos in Population Games*
Jakub Bielawski, Thiparat Chotibut, Fryderyk Falniowski, Michał Misiurewicz, Georgios Piliouras
- 9:30 - 10:00** Novel Solvability Conditions for a Linear-Quadratic Differential Game Based on Artificial Parameter Approach
Vladimir Turetsky, Valery Y. Glizer
- 10:00 - 10:30** Infinite horizon optimal control problems with unbounded payoffs: the HJB approach
Agnieszka Wiszniewska-Matyskiel
- 9:00 – 10:30** **Session 3B, Chair: Pietro De Giovanni (Patio)**
- 9:00 - 9:30** Quality, Reputation and Compensations for Intellectual Property Rights Infringements
Bertrand Crettez, Naila Hayek, Guiomar Martín-Herrán
- 9:30 - 10:00** Managing Random Events and Ambiguity in Supply Chain Decision-Making
Wenbin Cao, **Lijue Lu**
- 10:00 - 10:30** A Dynamic Game for Promoting Circular Economy Through Repair Practices According to the EU Directive 2024/1799
Pietro De Giovanni
- 10:30 - 11:00** **Break**
- 11:00 – 12:30** **Session 4A, Chair: Michèle Breton (Patio)**
- 11:00 - 11:30** Optimal Control and Differential Games for Pollution Management and Climate Agreements
Raouf Boucekkine, Giorgio Fabbri, Salvatore Federico, **Fausto Gozzi**, Cristiano Ricci, Ted Temzelides
- 11:30 - 12:00** Mitigation, Adaptation and Cooperation in Response to Climate Disaster
Simon Elgersma
- 12:00 - 12:30** International Environmental Agreements in the Presence of Adaptation and Self-image
Michèle Breton, Lucia Sbragia

- 11:00 – 12:30** **Session 4B, Chair: Francesca Flamini (Room 707)**
- 11:00 - 11:30** Insuring uninsurable income
Michiko Ogaku
- 11:30 - 12:00** On the Duality of Extensive and Strategic Forms: Binary Forms Approach
Daniel A. Kadnikov, Philipp Wichardt
- 12:00 - 12:30** Do we change the status-quo (and how)? Inefficient policies in dynamic bargaining with investment decisions
Francesca Flamini
- 12:30 – 14:00** **Lunch (Patio)**
- 14:00 – 16:00** **Session 5A, Chair: Michel De Lara (Room 707)**
- 14:00 - 14:30** Asymmetric Evolutionary Stochastic Games
Divya Murali, A.J. Shaiju
- 14:30 - 15:00** Bargaining around the prey-refuge
Guillaume Bataille
- 15:00 - 15:30** An Introduction to Witsenhausen Model and Games in Product Form
Michel De Lara
- 15:30 - 16:00** Witsenhausen Model for Leader-Follower Problems in Energy Management
Thomas Buchholtzer
- 14:00 – 15:30** **Session 5B, Chair: Georges Zaccour (Patio)**
- 14:00 - 14:30** Statistical Discrimination without knowing statistics: blame social interactions
Emily Tanimura
- 14:30 - 15:00** A Differential Game Approach for Managing the Opioid Epidemic
Monika Tomar and Mario Ventresca
- 15:00 - 15:30** Benefits and Perils of Integrated Data Systems in Managing Sustainable Fishing Quotas
Gian Italo, Bischì, **Fabio Lamantia**, Davide Radi
- 15:30 - 16:00** Payment schemes for finite-horizon repeated games of Prisoner's Dilemma type
Elena Parilina, Alyona Pisareva, **Georges Zaccour**
- 20:00** **Workshop dinner**
Restaurant Marty, 20 avenue des Gobelins 75005