



**CRED**

Centre de recherche  
en économie  
et droit

COLLOQUE

# WORKSHOP ON DYNAMIC GAMES AND APPLICATIONS

**26 octobre 2023 - 27 octobre 2023**  
**Centre Panthéon - Salle des conseils**  
**12 place du Panthéon, 75005 PARIS**

INSCRIPTION OBLIGATOIRE - PLUS D'INFOS  
[ASSAS-UNIVERSITE.FR](https://assas-universite.fr)

Le [CRED](#), le [LEMMA](#), le [GERAD](#) et la [Chair in Game Theory and Management](#) (HEC Montréal) organisent un *workshop* intitulé **Workshop on Dynamic Games and Applications**.

> [Inscription obligatoire](#)

## 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

### 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

### **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

### **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

### **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 CHENAVALZ

**17:00 - 17:25** Positional and Conformist Effects in Public Good Provision: Strategic Interaction and Inertia  
Francisco CABO, Alain JEAN-MARIE, Mabel TIDBALL

### **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**

> **9:00 - 9:45 / Invited talk 2, Chair: [Naila HAYEK](#)**



Information Issues in Mean Field Games  
Pierre CARDALIAGUET

**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 KILIÇ, Hürevren KILIÇ

**11:05 - 11:30** A Multilayer Approach to a Networked Sanction Game with Transferrable Utility  
Toby WILLIS, Giuliano PUNZO

**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

**Lunch**

> **14:00 - 15:40 / Session 5, Chair: Alessandra BURATTO**

**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** A Revenue Sharing Contract in a Supply Chain with Switching Costs  
Alessandra BURATTO, Luca GROSSET, Maddalena MUTTONI

**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 HOANG

**17:00 - 17:25** Spatial Competition à la Hotelling with Multiple Vendors and Multiple Types of Goods  
Emily TANIMURA

**Break**

**17:35 - 18:00** Beyond the classical Hamilton's rule: State distribution asymmetry and the dynamics of altruism  
Krzysztof ARGASINSKI

**18:00 - 18:25** Payment Schemes for Sustaining Cooperation in Dynamic Games Played over Event Trees  
Elena PARILINA, Georges ZACCOUR



20:00 *Workshop dinner*