PANTHÉON-ASSAS UNIVERSITÉ PARIS

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CRED
Centre de recherche en économie et droit

COLLOQUE

WORKSHOP ON DYNAMIC GAMES AND APPLICATIONS

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

INSCRIPTION OBLIGATOIRE - PLUS D'INFOS
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 CHENAVAZ

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 NGUYÊN 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***