

Workshop on Dynamic Games and Applications

Université Paris-Panthéon-Assas, October 27-28, 2022

Thursday, October 27

- 8:30 – 8:50** **Registration**
- 8:50 – 9:00** **Welcome address**
- 9:00 – 9:45** **Invited talk 1, Chair: Bertrand Crettez**
- Variations on an oil and gas game in a geostrategic climate policy context*
Haurie, Alain
- 9:45 – 10:15** **Break**
- 10:15 - 12:30** **Session 1, Chair: Florian Wagener**
- 10:15 - 10:40** *Regularization of a singular non-scalarizable linear-quadratic differential game*
Turetsky, Vladimir; Glizer, Valery Y.
- 10:40 - 11:05** *A dynamic analysis of criminal networks*
Colombo, Luca; Labrecciosa, Paola; Rusinowska, Agnieszka
- 11:05 - 11:30** *Self-isolation under uncertainty*
Baril-Tremblay, Dominique; **Marlats, Chantal**; Ménager, Lucie
- 11:30 - 11:40** **Break**
- 11:40 - 12:05** *On the investigation of mean field games: non-smooth dynamics with state constraints, variational approach with pairwise interaction*
Sadeghi Arjmand, Saeed; Mazanti, Guilherme; Pfeiffer, Laurent
- 12:05 - 12:30** *Differential games of public investment: Markovian best responses in the general case*
Jaakkola, Niko; **Wagener, Florian**
- 12:30 – 14:00** **Lunch**

14:00 – 15:40 **Session 2, Chair: Nikolaos Pnevmatikos**

14:00 - 14:25 *Environmental regulation and tax evasion when the regulator has incomplete information*
Cabo, Francisco; **Martín-Herrán, Guiomar**; Ramos, Lais

14:25 - 14:50 *Does the circular economy fuel the throwaway society? The role of opportunity costs*
Chenavaz, Régis

14:50 - 15:15 *Sustainable agreements in a dynamic game of river pollution with network externalities*
Sedakov, Artem

15:15 - 15:40 *Axiomatic characterization of Bentham optima and Rawls maximin: A comparison of the two solution concepts*
Gonzalez, Stéphane; **Pnevmatikos, Nikolaos**

15:40 – 16:10 **Break**

16:10 – 18:05 **Session 3, Chair: Onesimo Hernandez-Lerma**

16:10 - 16:35 Political competition with costly adjustments
Fournier; Gaetan; **Grillo, Alessandro**; Tsodikovitch, Yevgeny

16:35 - 17:00 Infinite-dimensional difference games
Hayek, Naila

17:00 - 17:25 Eco-evolutionary dynamics of collective beliefs catalysing cooperation
Gokhale, Chaitanya

17:25- 17:35 **Break**

17:35 - 18:00 A game model for primitive economic exchange
Anirban, Ghatak; **Kala, Vikrant**

18:00 - 18:25 Discrete-time potential games and applications
Hernández-Lerma, Onésimo

19:30 **Cocktail**

Friday, October 28

9:00 – 9:45 **Invited talk 2, Chair: Naila Hayek**

Multi-leader games: from approximations of equilibria to viscosity solutions

Morgan, Jacqueline

9:45 – 10:15 **Break**

10:15 - 12:30 **Session 4, Chair: Michèle Breton**

10:15 - 10:40

Too many or too few? On the optimal number of firms in the commons

Colombo, Luca; **Labrecciosa, Paola**; Simon, Leo K.

10:40 - 11:05

The effect of envy-freeness on an international environmental agreement

Donnini, Chiara; Armando, Sacco

11:05 - 11:30

Dynamic pricing and advertising with reference price effect when envisioning product-recall crisis

Lu, Lijue; Mukherjee, Arka

11:30 - 11:40

Break

11:40 - 12:05

A differential game of B2B marketing

Rubel, Olivier

12:05 - 12:30

Counterparty risk of netting agreements: A dynamic game interpretation

Breton, Michèle

12:30 – 14:00 **Lunch**

14:00 – 15:40 **Session 5, Chair: Elena Parilina**

14:00 - 14:25

Learning correlated equilibrium with perturbed regret minimization

Boufous, Omar; El Azouzi, Rachid; Touati, Mikaël; Eitan, Altman; Mustapha, Bouhtou

14:25 - 14:50

Altruistic Behaviour and International Environmental Agreements: a differential game approach

Armando, Sacco

14:50 - 15:15

Evolutionary dynamics of costly signaling

Hofbauer, Josef; **Pawlowitsch, Christina**

15:15 - 15:40

Can partial cooperation between developing and developed countries be stable?

Parilina, Elena; Su, Shimai

15:40 – 16:10

Break

16:10 – 18:25

Session 6, Chair: Georges Zaccour

16:10 - 16:35

Nuanced versus extremal expression of opinions in the presence of social influence

Tanimura, Emily

16:35 - 17:00

The effect of variability in payoffs on the evolution of cooperation

Kroumi, Dhaker; Lessard, Sabin

17:00 - 17:25

Game-Theoretic Modeling for the Spread of Epidemics: Analysis of Case Studies Motivated by COVID-19

Kordonis, Ioannis; **Lagos, Athanasios-Rafail**; Papavasilopoulos, George

17:25- 17:35

Break

17:35 - 18:00

Hybrid Evolutionary Oligopolies and the Dynamics of Corporate Social Responsibility

Lamantia, Fabio; Radi, Davide; Tichý, Tomáš

18:00 - 18:25

Endogenous duration of long-term agreements in cooperative dynamic games with nontransferable utility

Parilina, Elena; Reddy, Puduru Viswanadha; **Zaccour, Georges**

20:00

Workshop dinner