

Eleventh Workshop on Dynamic Games in Management Science

HEC Montréal, October 24-25, 2019

Program

Thursday, October 24

Room: TD Assurance Meloche Monnex (Green section, 1st floor)

8:00 – 8:45 Registration

8:45 – 9:00 Welcome Address

9:00 – 10:00 Plenary 1. Chair: Pierre-Olivier Pineau

Room: TD Assurance Meloche Monnex (Green section, 1st floor)

Alain Haurie

Games of Net Zero Carbon Emissions

10:00 – 10:30 Break

10:30 – 12:30 Environmental and Resource Economics I. Chair: Javier de Frutos

Room: TD Assurance Meloche Monnex (Green section, 1st floor)

Régis Chenavaz, Stan Dimitrov, Frank Figge

When Does Eco-Efficiency Rebound or Backfire? An Analytical Model

Sébastien Debia

On the Stability of a Two-Player International Environmental Agreement with Intra-Industry Trade

Samar Garrab

Pollution-stock Farsightedness in Environmental Agreements

Javier de Frutos, Guiomar Martin-Herrán, Paula M. López

Analytical Characterization of Optimal Emission Location Strategies in a Multiregional Transboundary Pollution Differential Game with Spatially Distributed Controls

10:30 – 12:30 Optimal Control and Dynamic Games I. Chair: Elena Parilina

Room: Gérard-Parizeau (Green section, 1st floor)

Rinel Foguen Tchuendom, Roland Malhamé, Peter E. Caines

A quantitized mean field game approach to energy pricing applied to a fleet of Plug-In Electric Vehicles

Stéphane Le Méneç

Evolutionary Game Theory Control for Consensus

Ilyass Dahmouni, Elnaz Kanani Kuchesefehiani

Secret to Academic Productivity

Elena Parilina, Artem Sedakov

Stable Alliances in Dynamic Competitive Environment

12:30 – 14:00 Lunch

Atrium (Garden Level, near cafeteria)

14:00 – 15:30 Optimal Control and Dynamic Games II. Chair: Francisco Cabo

Room: TD Assurance Meloche Monnex (Green section, 1st floor)

Utsav Sadana, Viswanadha Reddy Puduru, Georges Zaccour

Nash Equilibria in Non-Zero-Sum Differential Games with Impulse Control

Meir Pachter

Optimal Control in the Presence of Adversarial Action

Francisco Cabo, Ana García-González

How Much We Trust What We See in Others, when They Are different?

14:00 – 15:30 Networks. Chair: Peter E. Caines

Room: Gérard-Parizeau (Green section, 1st floor)

Ekaterina Gromova, Dmitry Gromov, Stewart Blakeway, Anna Kirpichnikova

Solution of Dynamic Games with Network Structure in Communication sciences

Christos Koulovatianos, Hakobyan Zaruhi

Populism in Social Media Without Fake News: The Vicious Circle of Biases, Beliefs and Network Homophily

Peter E. Caines, Huang, Minyi

The Analysis of Large Population Games on Unbounded Networks via the Graphon MFG Equations

15:30 – 16:00 Break

16:00 – 17:00 Plenary 2. Chair: Sihem Taboubi

Room: TD Assurance Meloche Monnex (Green section, 1st floor)

Michèle Breton

Cooperation in Environmental Games

18:00-20:00 Cocktail

Observatoire Ville Marie (<https://www.observatoire360.com>)

1 Place Ville Marie, Montréal, Québec H3B 3Y1

Friday, October 25

9:00 – 10:00 Plenary 3. Chair: Simon Sigué

Room: TD Assurance Meloche Monnex (Green section, 1st floor)

Steffen Jørgensen

Two Papers I Wrote with Georges Zaccour, Easily Extendable in Many Directions.

10:00 – 10:30 Break

10:30 – 12:30 Environmental and Resource Economics II. Chair: Bertrand Crettez

Room: TD Assurance Meloche Monnex (Green section, 1st floor)

Hossein Mirzapour, Michèle Breton

The Feasibility of Reforming Energy Prices in an Economy with the Heterogeneity of Consumers and Strategic Behavior of Suppliers

Julia De Frutos Cachorro, **Jesús Marín-Solano**, Navas Jorge

Competition between Different Groundwater Uses under Water Scarcity

Lucia Sbragia, Michèle Breton

Evolutionary Farsightedness: The Case of the Sustainable Wine Industry

Bertrand Crettez, Naila Hayek

A Dynamic Multi-Objective Duopoly Game with Pollution and Depollution

10:30 – 12:30 Investment Decisions and Finance. Chair: Peter Kort

Room: Procter & Gamble (Green section, 1st floor)

Denis Claude, Mabel Tidball

A New Rationale for not Picking Low Hanging Fruits: The Separation of Ownership and Control

Michèle Breton, **Tiguene Nabassaga**

Game Theory Applied in Credit Risk: How Financial Covenant Impact Syndicate Loan Value

Talat Genc, Pietro De Giovanni

Emotions, Consciousness, and Investment

Peter Kort

Finite Project Life and Strategic Interactions in Investment under Uncertainty

12:30 – 14:00 Lunch

Atrium (Garden Level, near cafeteria)

14:00 – 16:00 Marketing. Chair: Salma Karray

Room: TD Assurance Meloche Monnex (Green section, 1st floor)

Steffen Jørgensen, **Simon Sigué**

A Lanchester-Type Dynamic Game of Advertising and Pricing

Alessandra Buratto, Pietro De Giovanni, Luca Grosset

Age-Structured Marketing Channel in Infinite Time Horizon

Rabih Salhab, Jérôme Le Ny, Roland Malhamé, Georges Zaccour

Dynamic Marketing Policies with Online-Review-Sensitive Consumers: A Mean-Field Games Approach

Salma Karray

The Effects of Consumer Rebates in a Competitive Distribution Channel

14:00 – 16:00 Optimal Control and Dynamic Games II. Chair: Leon Petrosyan

Room: Procter & Gamble (Green section, 1st floor)

Dena Firoozi, Jaimungal Sebastian

Model-Based Reinforcement Learning in Electronic Markets

Anton Bondarev

Global Dynamics of Multi-Modal Differential Games and Zero-Divergence Strategies: An Application to Renewable Resource Extraction.

Jayakumar Subramanian, Akshat Kumar, **Aditya Mahajan**

Mean-Field Games Between Teams

Leon Petrosyan

Constructing Characteristic Functions for Dynamic games on Networks

16:00 – 16:30 Break

16:30 – 17:30 Plenary 4. Chair: Michèle Breton

Room: TD Assurance Meloche Monnex (Green section, 1st floor)

Georges Zaccour

Three Decades of Dynamic games

19:30 Workshop Dinner

Restaurant Carte Blanche

1159 Rue Ontario E, Montréal, QC H2L 1R3