

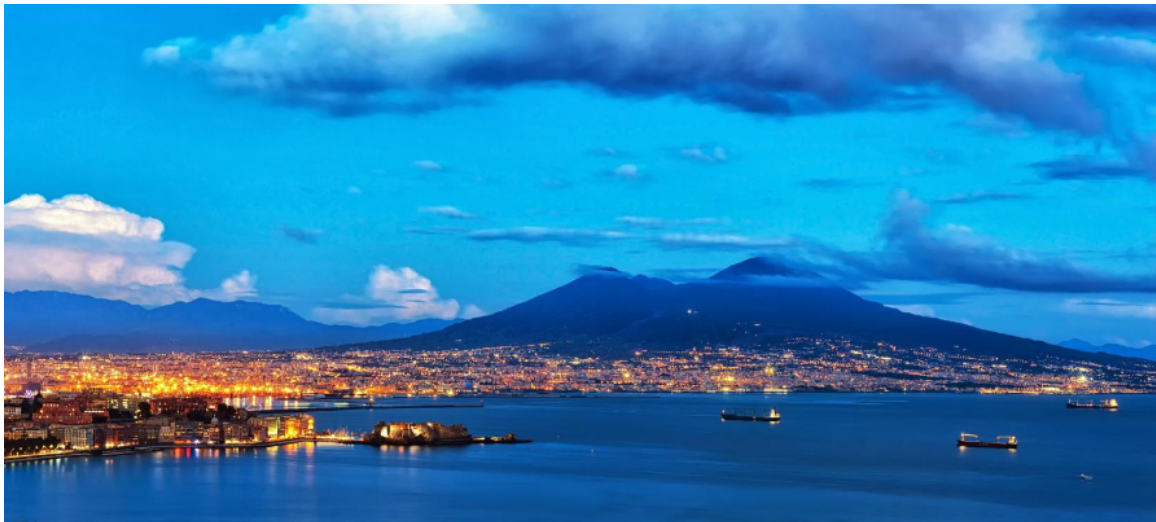
13th ISDG Workshop

June 7-9, 2023

Naples, Italy

University of Naples "Parthenope"
Palazzo Pacanowski - Via Generale Parisi 13

Program



June 7, 2023

08:00-08:55 **Registration** (reading room, floor A)

Differential Games 1

Location: Room T1 (ground floor); **Presided by:** Petrosyan Leon

09:00 AM *Open-loop Nash equilibrium in games with time-varying delays*
Machowska Dominika, Nowakowski Andrzej

09:30 AM *Asymptotic behavior of subgame perfect Nash equilibria in Stackelberg games*
Caruso Francesco, **Ceparano Maria Carmela**, Morgan, Jacqueline

10:00 AM *On a Simplified Class of Characteristic Functions in Differential Network Games*
Petrosyan Leon, Pankratova Yaroslavna

Dynamic Games in Management 1

Location: Room 1.2 (first floor); **Presided by:** Brambilla Chiara

09:00 AM *Building resilience: a dynamic approach*
Lu, Lijue

09:30 AM *The impact of tax benefits on reshoring: a Markov chain-based model*
Grosset Luca, **Brambilla Chiara**, Sartori Elena

10:30 AM **Coffee** (reading room, floor A)

Differential Games 2

Location: Room T1; **Presided by:** Wiszniewska-Matyszek Agnieszka

11:00 AM *Numerical Solution of Differential Games*
Mojtaba Dehghan Banadaki, Navidi Hamidreza

11:30 AM *Games in Product Form and Kuhn's Equivalence Theorem*
Heymann Benjamin, **De Lara Michel**, Chancelier Jean-Philippe

12:00 PM *Infinite horizon optimal control problems with unbounded payoffs: the necessary terminal condition, sufficient conditions and tasty examples why heuristics may be dangerous*
Wiszniewska-Matyszek Agnieszka, Singh Rajani

Dynamic Games in Economics

Location: Room 1.2; **Presided by:** De Giovanni Pietro

11:00 AM *Vertical contracting and information spillover in Cournot competition*

Nicolas Riquelme, Jihwan Do

11:30 PM *Blockchain Technology and Physical Oracles in the Collectibles Industry*

Ruzza Daniel, Rudy Cesaretto, **De Giovanni Pietro**

12:30 PM **Lunch** (reading room, floor A)

Numerics and Theory for Differential Games, in Memory of Maurizio Falcone: Mean-Field Games 1

Location: Room T1; **Presided by:** Cristiani Emiliano

02:00 PM *Long-time behaviour of deterministic Mean Field Games with non-monotone interactions*

Bardi Martino, Kouhkouh Hicham

02:30 PM *A Generalized Mean-Field Game Model for the Dynamics of Pedestrians with Limited Predictive Abilities*

Cristiani Emiliano, Menci Marta, De Santo Arianna

Games and Politics

Location: Room 1.2; **Presided by:** Montagner Oto

02:00 PM *A Game Theoretical Model of the Demand for Clientelism*

Mello Eduardo, **Montagner Oto**

02:30 PM *The value of information on the opponent's strategy: two-stage asymmetric General Lotto games with partial information*

Brethouwer Jan-Tino, van Ginkel Bart

03:00 PM *Nuclear latency under U.S. uncertainty*

Montagner Oto, Spektor Matias

03:30 PM **Tea** (reading room, floor A)

Numerics and Theory for Differential Games, in Memory of Maurizio Falcone: Two Person Games 1

Location: Room T1; **Presided by:** Akian Marianne

04:00 PM *Hamilton-Jacobi approach for a differential game control problem with state constraints*
Zidani, Hasnaa

04:30 PM *Approximation of the value function for optimal control problems on stratified domains*
Camilli, Fabio

05:00 PM *Solving irreducible stochastic mean-payoff games and entropy games by relative Krasnoselskii-Mann iteration*
Akian Marianne, Gaubert Stéphane, Naepels Ulysse, Terver Basile

Dynamic Games in Environmental and Resource Economics 1

Location: Room 1.2; **Presided by:** Rubio Santiago J.

04:00 PM *Self-image, Adaptation, and the Stability of International Environmental Agreement.*
Breton Michèle, **Sbragia Lucia**

04:30 PM *Dynamic Pricing and Advertising in a Supply Chain with Environment- and Fairness-Concerned Consumers*
Parilina Elena, Yao Fanjun, **Zaccour Georges**

05:00 PM *Efficiency-Inducing Policy for Polluting Oligopolists*
Rubio Santiago J., Martín-Herrán Guiomar

07:00 PM **Welcome Cocktail**

Location: *I re di Napoli*, Via Partenope 9

June 8, 2023

Numerics and Theory for Differential Games, in Memory of Maurizio Falcone: Mean-Field Games 2

Location: Room T1; **Presided by:** Cesaroni Annalisa

09:00 AM *Study of stationary equilibria in a Kuramoto Mean Field Game*
Cirant Marco

09:30 AM *A high-order scheme for mean-field games*
Carlini Elisabetta

10:00 AM *Ergodic Mean-Field Games with aggregation of Choquard-type*
Cesaroni Annalisa

Dynamic Games in Environmental and Resource Economics 2

Location: Room 1.2; **Presided by:** Chenavaz Régis

09:00 AM *Environmental Regulation and Inspection Delegation with Stock Pollution*
Cabo Francisco, Martín-Herrán Guiomar, Arguedas Carmen

09:30 AM *Multi-Periodic Distributional-Robust Stackelberg Game with Environmental Corrective Actions*
Fakhrabadi Mahnaz, Sandal Leif Kristoffer

10:00 AM *Dynamic games in environmental economics: A systematic literature review*
Chenavaz Régis, Stan Dimitrov

10:30 AM **Coffee** (reading room, floor A)

Numerics and Theory for Differential Games, in Memory of Maurizio Falcone: Two Person Games 2

Location: Room T1; **Presided by:** Bokanowski Olivier

11:00 AM *Solution of Potential-Field Dynamical Systems via Game and Saddle-Point Based Methods*
McEneaney William

11:30 AM *Hybrid stochastic differential games and route planning*
Cacace Simone, **Ferretti Roberto**, Festa Adriano

12:00 PM *Neural network approximations for two-player games*
Bokanowski Olivier

Evolutionary Games

Location: Room 1.2; **Presided by:** Krivan Vlastimil

- 11:00 AM** *Plants' competition under autotoxicity effect: An Evolutionary Game*
Karagiannis-Axypolitidis Nikos, Panebianco Fabricio, Bonanomi Giuliano, Giannino Francesco
- 11:30 AM** *Emission permits and environmental corporate social responsibility in an evolutionary oligopoly*
Iannucci Gianluca, Tampieri Alessandro
- 12:00 PM** *The asymmetric Hawk-Dove game with costs measured as time lost*
Krivan Vlastimil, Cressman Ross
- 12:30 PM** **Lunch** (reading room, floor A)

Numerics and Theory for Differential Games, in Memory of Maurizio Falcone: Mean-Field Games 3

Location: Room T1; **Presided by:** Bardi Martino

- 02:00 PM** *A policy iteration method for Mean Field Games*
Simone Cacace, Fabio Camilli, Alessandro Goffi
- 02:30 PM** *Mean field games: from discrete to continuous state space*
Cecchin Alekos
- 03:00 PM** *A commemoration of Maurizio Falcone*
Bardi Martino

Dynamic Games in Environmental and Resource Economics 3

Location: Room 1.2; **Presided by:** Marin-Solano Jesus

- 02:00 PM** *Differential Game in Renewable Resources with Sliding Modes and Hybrid Limit Cycles*
Upmann Thorsten, Bondarev Anton
- 02:30 PM** *The Effects of Adaptation in the stability of International Environmental Agreements a Dynamic Approach*
Biancardi Marta, Lucia Maddalena
- 03:00 PM** *A Great Fish War Model with Quasi-Hyperbolic Discounting and Asymmetric Players*
Marin-Solano Jesus, Alderborn Joakim

03:30 PM Tea (reading room, floor A)

Numerics and Theory for Differential Games, in Memory of Maurizio Falcone: Two Person Games 3

Location: Room T1; **Presided by:** Soravia Pierpaolo

04:00 PM *The best time to change the rules of your game*
Vladimirsky Alexander

04:30 PM *Pursuing a moving target: higher order capturability conditions*
Soravia Pierpaolo

Dynamic Games in Management 2

Location: Room 1.2; **Presided by:** Breton Michèle

04:00 PM *Optimal control with stochastic switching time: an application to Nerlove & Arrow model*
Buratto Alessandra, Grosset Luca, **Muttoni Maddalena**

04:30 AM *Evolutionary Selection in cobweb markets with finitely many players*
Lamantia Fabio, Cerboni Baiardi Lorenzo

05:00 PM *Counterparty risk under netting agreements: A dynamic game interpretation*
Breton Michèle, Tavasoli Ahmadreza

08:00 PM **Social Dinner**

Location: Ristorante *La Bersagliera*, Borgo Marinari 10/11

June 9, 2023

Numerics and Theory for Differential Games, in Memory of Maurizio Falcone: Mean-Field Games 4

Location: Room T1; **Presided by:** Le Ménéec Stéphane

09:00 AM *Polarization and Coherence in Mean Field Games Driven by Private and Social Utility*
Dai Pra Paolo, **Sartori Elena**, Tolotti Marco

09:30 AM *Coarse correlated equilibria in mean field games*
Campi Luciano, Cannerozzi, Federico, **Fischer Markus**

10:00 AM *Mean Field Game to guide Swarms in Dense Areas*
Le Ménéec Stéphane

Dynamic Games in Environmental and Resource Economics 4

Location: Room 1.2; **Presided by:** de Frutos Cachorro Julia

09:00 AM *Dynamic Resource Management Problem with a Recovery Period*
Mazalov Vladimir, Rettieva Anna

09:30 AM *Differential Games and Optimal Water Management*
Caravaggio Andrea, De Cesare Luigi, **Di Liddo Andrea**

10:00 AM *Groundwater extraction for irrigation purposes: the case of asymmetric players*
de Frutos Cachorro Julia, Marin-Solano Jesus, Chukaeva Valeriia

10:30 AM **Coffee** (reading room, floor A)

Differential Games 3

Location: Room 1.2; **Presided by:** Wagener Florian

11:00 AM *On construction of subgame perfect Nash equilibria in Stackelberg games*
Caruso Francesco, Ceparano Maria Carmela, Morgan Jacqueline

11:30 AM *Payment Schemes for Sustaining Cooperation in Dynamic Games Played over Event Trees*
Elena Parilina, **Zaccour Georges**

12:00 PM *Differential games as normal form games: technical aspects*
Jaakkola Niko, **Wagener Florian**