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**Tuesday, May 3, 2022**

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11:00

Registration Opens

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13:45

Room: 118

Opening Session

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14:00 to 15:30

Room: 118

**Plenary Talks**

Chair: Sabine Pickenhain

Co-Chair: Fernando A. C. C. Fontes

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14:00 **Fernando Lobo Pereira**

**A Maximum Principle for a Time-Optimal Bilevel Sweeping Control Problem**

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14:45 **11:00 Radu Ioan Bot**

**Fast Augmented Lagrangian Method in Continuous and Discrete Time**

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15:30-16:00

**Coffee Break**

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16:00 to 18:00 (18:30)

**Parallel Sessions - Overview**

MS1 Optimal Control of ODE's: Theory and Applications 1/4	MS3 Optimization in Medicine: Contributions for Radiotherapy treatments 1/1	MS11 Optimal Control of fluid flows 1/2	MS2 Optimization for Gas Networks 1/2	CS1 Learning: Algorithms and Applications
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**MS1:** Optimal Control of ODE's: Theory and Applications--1

**Room: 111**

Organizers: Sabine Pickenhain and Valeriya Lykina

Chair: Vladimir Veliov

16:00 H el ene Frankowska

**Value Function in Optimal Control on Wasserstein Spaces**

16:30 Teresa Scarinci

**A Stochastic Gradient Method for Nonlinear PDEs-Constrained Optimal Control Problems under Uncertainty**

17:00 Silvia Faggian

**Optimal Control with Heterogeneous Capitals: Equilibrium Distributions**

17:30 Nicolai Jork

**Strong metric subregularity of optimal control problems constrained by semilinear elliptic PDE's**

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**MS2** Optimization for gas networks --1

**Room: 113**

Organizers: Falk Hante and Andrea Walther

Chair: Andrea Walther

16:00 Richard Krug

**A Decomposition Method for MINLPs with Multivariate Lipschitz Continuous Nonlinearities**

16:30 Lukas Wolf

**Stochastic Gradient Descent for Optimal Control Problems using Domain Decomposition**

17:00 Yan Brodskyi

**Towards Sequential Action Control for Gas Network Problems**

17:30 Michael Schuster

**Probabilistic Constrained Optimization on Gas Networks**

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**MS3** Optimization in Medicine: contributions for radiotherapy treatments

**Room: 115**

Organizers: Joana Dias and Humberto Rocha

Chair: Joana Dias                      Co-chair: Humberto Rocha

16:00 Pedro Carrasqueira

**An automated bi-level optimization approach for IMRT**

16:30 Joana Neves

**Proton and Photon radiotherapy treatments: a comparison considering the impact of uncertainties**

17:00 Joana Dias

**A robust fluence map optimization for proton therapy treatment planning**

17:30 Humberto Rocha

**Beam Angle Optimization in Intensity-Modulated Proton Therapy using a Probabilistic Descent Direct-Search Approach**

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**MS11** Optimal control of fluid flows--1

**Room: 213**

Organizers: Ana Leonor Silvestre and Jorge Tiago

Chair: Ana Leonor Silvestre

16:00 Jean-Pierre Raymond

**Stabilization of fluid flows using reduced order model based on spectral projections**

16:30 Sérgio Rodrigues

**Feedback semiglobal stabilization to trajectories for the Kuramoto--Sivashinsky equations**

17:00 Jérôme Lohéac

**Controllability of low Reynolds numbers swimmers of ciliate type**

17:30 Arnab Roy

**Stabilization of a rigid body moving in a compressible viscous fluid**

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**CS1** Learning: Algorithms and Applications

**Room: 215**

Chair: António Pedro Aguiar

16:00 Laurent Pfeiffer

**Generalized conditional gradient method for potential mean field games**

16:30 Isabel Jacob

**A Recursive Multilevel Algorithm for Deep Learning**

17:00 Fabian Schaipp

**A semismooth Newton stochastic proximal point algorithm with variance reduction**

17:30 Simon Gottschalk

**Optimal Control meets Reinforcement Learning: Docking Maneuver in Space**

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**Wednesday, May 4, 2022**

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**8:30 to 10:30**

**Parallel Sessions MORNING - Overview**

MS1 Optimal control of ODE's: Theory and applications 2/4 <b>ROOM 111</b>	MS5 Recent trends in analytical and computational aspects on non-smooth optimization 1/3 <b>ROOM 113</b>	MS10 Optimization in forest management and wildfire 1/3 <b>ROOM 115</b>	MS11 Optimal Control of fluid flows 2/2 <b>ROOM 211</b>	CS2 Applied Mixed Integer Programming <b>ROOM 213</b>	CS3 Optimal Control <b>ROOM 215</b>
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**MS1:** Optimal control of ODE's: Theory and applications--2

**Room: 111**

Organizers: Sabine Pickenhain and Valeriya Lykina

Chair: H el ene Frankowska

8:30 Alberto Corella

**Nonlinear metric subregularity in optimal control**

9:00 Ilya Dikariev

**Different Relaxations in Infinite Horizon Optimal Control - Comparison and Existence**

9:30 Othmane Jerhaoui

**Optimal control problem on Riemannian manifolds under probability knowledge of the initial condition**

10:00 Vladimir Veliov

**On the accuracy of the model predictive control method for optimal control**

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**MS5:** Recent trends in analytical and computational aspects on non-smooth optimization--1

**Room: 113**

Organizers: Kathrin Welker and Olga Wei 

Chair: Volker Schulz

8:30 (Dual Talk) Andrea Walther

**On a semismooth conjugate gradient method-1**

9:00 (Dual Talk) Andrea Walther

**On a semismooth conjugate gradient method-2**

9:30 Bastian Pötzl

**Inexact Proximal Newton Methods in Hilbert Space**

10:00 Ismael Medina

**Asymptotics of the domain decomposition method for optimal transport**

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**MS10:** Optimization in forest management and wildfire -- Fire Modelling

**Room: 115**

Organizers: Ana Maria Rocha, Senhorinha Teixeira and Filipe Alvelos

Chair: Filipe Alvelos

8:30 Beatriz Flávia Azevedo

**A Forest Fire Monitoring System Based on IoT Technology**

9:00 Inês Gonçalves

**Modelling the effect of forestry using a Simplified CFD Model**

9:30 João Marques

**Modeling of a Wildfire Propagation using Surface and Crown Fire Models**

10:00 Catarina Santos

**Discrete Event Simulation of Forest Fires**

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**MS11** Optimal control of fluid flows--1

**Room: 211**

Organizers: Ana Leonor Silvestre and Jorge Tiago

Chair: Jorge Tiago

8:30 Eduardo Casas

**Optimal Control of the 2D Evolutionary Navier-Stokes Equations with Measure Valued Controls**

9.00 Fernanda Cipriano

**Injection-suction control for 2D stochastic Navier-Stokes equations with slippage**

9:30 Irene Marín Gayte

**Multiobjective optimal control problems. Navier-Stokes equations**

10:00 Pedro Nogueira

**Optimal boundary control problem for steady Navier-Stokes equations with directional do-nothing boundary condition**

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**CS2** Applied Mixed Integer Programming

**Room: 213**

Chair: Sérgio Rodrigues      Co-Chair: Adelaide Cerveira

8:30                      FREE TIME

9:00 Lea Rehlich

**Mixed-Integer Nonlinear Optimization of Heating Networks**

9:30 Adelaide Cerveira

**A Distributionally Robust Approach for the Optimal Cable Design of Wind Farms**

10:00 Cristina Requejo

**A preliminary approach to optimisation of data routing and schedule length in TSCH networks**

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**CS3** Optimal Control

**Room: 215**

Chair: Laurent Pfeiffer      Co-Chair: Jean-Baptiste Caillau

8:30                      FREE TIME

9:00 Jean-Baptiste Caillau

**Extremal functional determinants: progress in the Dirichlet and periodic cases**

9:30 Lamberto Dell'Elce

**Accurate identification of time-optimal solutions of fast-oscillating control systems**

10:00 Elisabeth Diehl

**Sensitivity approach for the Simulation based Optimization of Multiphase Flow with a dynamic Contact Line**

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10:30- 11:00

*Coffee Break*

11:00 to 12:30

Room: 118 *Plenary Talks*

Chair: Jean-Baptiste Caillau

Co-Chair: João Gouveia

11:00 Luce Brotcorne

How to integrate and influence customers' behavior within pricing?

11:45 Matthias Gerdt

Coordination of interacting systems using optimal control techniques

12:30-14:00

*LUNCH*

14:00 to 15:30

Room: 118 *Plenary Talks*

Chair: Helmut Maurer

Co-Chair: Claudia Soares

14:00 Jérôme Bolte

Nonsmooth differentiation in deep learning: a mathematical approach

14:45 Nelly Pustelnik

On strong convexity to the understanding and design of unsupervised and supervised deep image analysis

15:30-16:00

*Coffee Break*

16:00 to 18:00 (18:30)

*Parallel Sessions - AFTERNOON - Overview*

MS1 Optimal control of ODE's: Theory and applications 3/4	MS5 Recent trends in analytical and computational aspects on non-smooth optimization 2/3	MS14 Optimization and data analytics in sustainable manufacturing and beyond 1/1	MS15 Mind the gap: new results on the Lavrentiev phenomenon 1/2	CS4 Nonconvex Optimization	CS5 Applied Optimal Control
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**MS1:** Optimal control of ODE's: Theory and applications -3

**Room: 111**

Organizers: Sabine Pickenhain and Valeriya Lykina

Chair: Hasnaa Zidani

16:00 Helmut Maurer

**Optimal Control of Cancer Chemotherapy with Delays and State Constraints**

16:30 Jonas Marko

**On Integer Optimal Control Problems with Total Variation Regularization**

17:00 Elisa Paparelli

**Optimal control model for COVID-19: Economic collapse vs health system overcrowding**

17:30 Sabine Pickenhain

**Lyapunov-exponential Asymptotic Stabilization of Control Constrained Dynamical Systems**

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**MS5:** Recent trends in analytical and computational aspects on non-smooth optimization--2

**Room: 113**

Organizers: Kathrin Welker and Olga Weiß

Chair: Georg Müller

16:00 (Dual Talk) Volker Schulz

**On simultaneous mesh and shape optimization in VI**

16:30 (Dual Talk) Volker Schulz

**On simultaneous mesh and shape optimization in VI**

17:00 Alexander Schlüter

**Dimension reduction of dynamic super-resolution**

17:30 Manuel Weiß

**Geometry Segmentation with Total Variation Regularization**

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**MS14** Optimization and data analytics in sustainable manufacturing and beyond

**Room: 115**

Organizers: Dalila B.M.M. Fontes and Sergiy Butenko

Chair: Dalila B.M.M. Fontes

16:00 (Dual Talk) Panos M. Pardalos

**Artificial Intelligence, Data Sciences, and Smart/Green Manufacturing**

16:30 (Dual Talk) Panos M. Pardalos

**Artificial Intelligence, Data Sciences, and Smart/Green Manufacturing**

17:00 Sergiy Butenko

**Cluster Detection via Polynomial Optimization**



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**MS15** Mind the gap: new results on the Lavrentiev phenomenon-1 - One dimensional Case

**Room: 211**

Organizers: Pierre Bousquet, Carlo Mariconda and Giulia Treu

Chair: Pierre Bousquet

16:00 Monica Motta

**Unbounded Control, Infimum Gaps, and Higher Order Normality**

16:30 Nathalie Khalil

**State-Constrained Average Cost Problems**

17:00 Piernicola Bettiol

**Some Regularity Properties of minimizers and of the value function in the Calculus of Variations**

17:30 Carlo Mariconda

**New results on Lavrentiev's gap in the one dimensional case**

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**CS4** Nonconvex Optimization

**Room: 213**

Chair: Radu Ioan Bot      Co-chair: Kang Liu

16:00 Kang Liu

**Large-scale nonconvex optimization: randomization, gap estimation, and numerical resolution**

16:30 Julia Wachter

**On nonconvex generalized Nash equilibrium problems in infinite-dimensional spaces: Existence of equilibria and solution methods**

17:00 Axel Böhm

**Solving Nonconvex-Nonconcave Min-Max Problems exhibiting Weak Minty Solutions**

17:30 Sani Aji

**An Accelerated Spectral Method for Solving Large Scale Systems of Nonlinear Equations**

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**CS5** Applied Optimal Control

**Room: 215**

Chair: Alain Rapaport      Co-chair: Sofia Oliveira Lopes

16:00 Alesia Herasimenka

**Optimal Control of Solar Sails for a Sun Occultation Mission**

16:30 Amélia C.D. Caldeira

**Optimal switching a formation of Dubins cars**

17:00 Ana P. Lemos-Paião

**Sensitivity analysis of an irrigation optimal linear-control problem**

17:30 Éloïse Comte

**Optimal control for the groundwater pollution: a game theory approach**

18:00 Björn Polenz

**Nonlinear robust shape optimization using second-order approximations and model order reduction for electric motors**

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**Thursday, May 5, 2022**

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**8:30 to 10:30**

**Parallel Sessions MORNING - Overview**

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	MS2 Optimization for gas networks 2/2	MS9 New trends in optimal control and sweeping process with lack of regularity 1/2	MS10 Optimization in forest management and wildfire 2/3	M13 Convergence rates of convex optimization methods 1/2	CS6 Advances in Algorithms
MS1 Optimal control of ODE's: Theory and applications 4/4					

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**MS1:** Optimal control of ODE's: Theory and applications--4

**Room: 111**

Organizers: Sabine Pickenhain and Valeriya Lykina

Chair: Helmut Maurer

8:30 . FREE TIME

9:00 Hasnaa Zidani

**Sensitivity relations for minimax control problems**

9:30 Fausto Gozzi

**Spatial growth models over networks**

10:00 Valeriya Lykina

**Solving Infinite Horizon Optimal Control Problems in the Framework of Neural Network Approach**

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**MS2:** Optimization of Gas Networks-2

**Room: 113**

Organizers: Falk Hante and Andrea Walther

Chair: Falk Hante

8:30 Thomas Schillinger

**Control Strategies for Transport Networks under Demand Uncertainty**

9:00 Julia Grübel

**Nonconvex Equilibrium Models for Energy Markets: Exploiting Price Information to Determine the Existence of an Equilibrium**

9:30 Anna Thünen

**Multiscale Control of Stackelberg Games**

10:00 Timo Kreimeier

**On a New Solver for Constrained Piecewise Linear Optimization**

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**MS9:** New trends in optimal control and sweeping process with lack of regularity

**Room: 115**

Organizers: Alain Rapaport and T erence Bayen

Chair: Alain Rapaport

8:30 M. Margarida A. Ferreira

**Optimal Control involving Sweeping Processes with End Point Constraints**

9:00 Joaquim Sewane

**State-Constrained Sweeping Process Problems**

9:30 Veljko Askovic

**On the asymptotic behaviour of the value function in optimal control problems**

10:00 Franco Rampazzo

**Goh and Legendre-Clebsch conditions for non-smooth optimal control problems**

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**MS10:** Optimization in forest management and wildfire- 2- fire suppression and forest management

**Room: 211**

Organizers: Ana Maria Rocha, Senhorinha Teixeira and Filipe Alvelos

Chair: Ana Maria Rocha

8:30 Mariana Dias

**Reducing Forest Fires throughout Fuel Management in a Landscape-Level**

9:00 David Neto

**Stochastic programming for resources positioning in wildfirefighting**

09:30 Lino A. Costa

**A scheduling problem for fighting several fire fronts problem**

10:00 André Bergsten Mendes

**A VNS metaheuristic for a robust fire suppression resource assignment**

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**MS13** Convergence rates of convex optimization methods-1

**Room: 213**

Organizers: Geovani N. Grapiglia and Masoud Ahookhosh

Chair: Masoud Ahookhosh

8:30 Pavel Dvurechensky

**Accelerated Alternating Minimization Methods**

9.00 Nikita Doikov

**Optimization Methods for Fully Composite Problems**

9:30 Puya Latafat

**Escaping limit cycles: Global convergence for constrained nonconvex-nonconcave minimax problems**

10:00 Geovani N. Grapiglia

**Adaptive Third-Order Methods for Composite Convex Optimization**

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**CS6** Advances in Algorithms

**Room: 215**

Chair: Yurii Nesterov      Co-chair: Pierre-Cyril Aubin-Frankowski

8:30 Pierre-Cyril Aubin-Frankowski

**Handling infinitely many inequality constraints in function optimization problems using kernel methods**

9:00 Michael Sedlmayer

**A Relaxed Inertial Forward-Backward-Forward Algorithm for Solving Monotone Inclusions with Application to GANs**

9:30 Maria João Alves

**A new exact method for linear bilevel problems with multiple objective functions at the lower level**

10:00 Nguyen Dang Khoa

**Fast method for solving monotone equation**

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10:30- 11:00

*Coffee Break*

11:00 to 12:30

Room: 118 *Plenary Talks*

Chair: Eduardo Casas

Co-Chair: Ana Luísa Custódio

11:00 **Francisco Saldanha-da-Gama**  
Districting Problems: Dealing with Uncertainty

11:45 **Yurii Nesterov**  
Primal subgradient methods with predefined stepsizes

12:30-14:00

*LUNCH*

14:00 to 15:30

Room: 118 *Plenary Talks*

Chair: Sergiy Butenko

Co-Chair: Ana Rocha

14:00 **Helena Ramalinho Lourenço**  
Optimization for Societal Impact

14:45 **Gerd Wachsmuth**  
The role of curvature in second-order conditions

15:30-16:00

*Coffee Break*

16:00 to 18:00 (18:30)

*Parallel Sessions - AFTERNOON-Overview*

MS4 Geometric control, optimal feedback stabilization and applications 1/2	MS5 Recent trends in analytical and computational aspects on non-smooth optimization 3/3	MS6 Recent developments and new challenges in Derivative-Free Optimization 1/1	MS7 Internet of Manufacturing Things 1/1	MS9 New trends in optimal control and sweeping process with lack of regularity 2/2	MS12 The interplay between geometry and optimization 1/2
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**MS4:** Geometric control, optimal feedback stabilization and applications -1

**Room: 111**

Organizers: Jérémy Rouot and Cristiana J. Silva

Chair: Cristiana J. Silva

16:00 Boris Wempe

## Zermelo Navigation Problems on Surfaces of Revolution

16:30 Jorge Tiago

**Optimal control and cardiovascular modeling**

17:00 Jérémy Rouot

**Time Minimal Syntheses using Geometric and Computational Techniques for Chemical Reactors**

17:30 Daniel Walter

**Learning an optimal feedback operator semiglobally stabilizing semilinear parabolic equations**

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**MS5:** Recent trends in analytical and computational aspects on non-smooth optimization--3

**Room: 113**

Organizers: Kathrin Welker and Olga Weiß

Chair: Andrea Walther

16:00 Georg Müller

**Solving Semi-Linear Elliptic Optimal Control Problems with  $L^1$ -Cost via Regularization and RAS-Preconditioned Newton**

16:30 Winnifried Wollner

**Control in the coefficients of the obstacle problem**

17:00 Julius Lohmann

**Convexification of branched transport**

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**MS6** Recent developments and new challenges in Derivative-Free Optimization

**Room: 115**

Organizers: Ana Luísa Custódio and Evelin Krulikovski

Chair: Evelin Krulikovski

16:00 Evelin Krulikovski

**A derivative-free method for convex constrained minimization**

16:30 Rohollah Garmanjani

**Derivative-free separable quadratic modeling and cubic regularization for unconstrained optimization**

17:00 Aboozar Mohammadi

## A Trust-region Approach for Computing Pareto Fronts in Multiobjective Optimization

17:30 Everton Silva

### **A Direct Multisearch Filter Method for Biobjective Optimization**

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**MS7:** Internet of Manufacturing Things

**Room: 211**

Organizers: Dalila B.M.M. Fontes and S. Mahdi Homayouni

Chair: Dalila B.M.M. Fontes

16:00 João M.R.C. Fernandes

### **Optimization of Joint Scheduling Speed Adjustable Machines and Vehicles in Job Shops**

16:30 S. Mahdi Homayouni

### **Sustainable Scheduling of Single Machine and Preventive Maintenance Activities**

17:00 Carlos Henggeler Antunes

### **A bi-objective mixed integer linear programming model to optimize demand response to time-of-use prices in the electricity retail market**

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**MS9** New trends in optimal control and sweeping process with lack of regularity

**Room: 213**

Organizers: Alain Rapaport and T rence Bayen

Chair: Oliver Cots

16:00 Abdallah Abdel Wahab

### **Necessary optimality conditions for multiprocesses with parameters**

16:30 G. Colombo

### **Lie brackets, state constraints, and uniqueness of viscosity solutions of Hamilton-Jacobi PDE**

17:00 Anas Bouali

### **Hybrid maximum principle with regional switching parameter**

17:30 Olivier Cots

### **Singular arc and non-smooth dynamics in optimal control: an example**

18:00 Alain Rapaport

### **Equivalent formulations of the min peak problem and applications**



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**MS12** The interplay between geometry and optimization -1

**Room: 215**

Organizers: Margarida Camarinha and Leonardo Colombo

Chair: Margarida Camarinha

16:00 Luís Machado

**A numerical optimization approach to solve the least square problem on curved spaces**

16:30 Patrícia Santos

**Jacobi multipliers and optimization**

17:00 Jacob Goodman

**Local Minimizers for Variational Obstacle Avoidance on Riemannian manifolds**

17:30 Margarida Camarinha

**Dynamic interpolation on Riemannian manifolds**

Friday, May 6, 2022

8:30 to 10:00

Parallel Sessions MORNING - Overview

MS4 Geometric control, optimal feedback stabilization and applications 2/2	MS8 Optimization in distributed settings 1/1	MS10 Optimization in forest management and wildfire 3/3	MS12 The interplay between geometry and optimization 2/2	MS13 Convergence rates of convex optimization methods 2/2	MS15 Mind the gap: new results on the Lavrentiev phenomenon 2/2
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**MS4:** Geometric control, optimal feedback stabilization and applications -2

**Room: 111**

Organizers: Jérémy Rouot and Cristiana J. Silva

Chair: Jérémy Rouot

8:30 . FREE TIME

9:00 Cristiana J. Silva

**Optimal control of predator-prey systems complex network**

9:30 (Dual Talk) Bernard Bonnard

**Optimal Control of the Generalized Lotka-Volterra Equation with Application to the Intestinal Microbiota**

10:00 (Dual Talk) Bernard Bonnard

**Optimal Control of the Generalized Lotka-Volterra Equation with Application to the Intestinal Microbiota**

**MS8:** Optimization in distributed settings

**Room: 113**

Organizers: João Xavier

Chair: João Xavier

8:30 João Miranda Lemos

**Distributed Inverse Optimal Control**

9:00 António Pedro Aguiar

**Distributed real-time learning with safety guarantees in multi-agent systems**

9:30 Francisco Andrade

**Distributed Banach-Picard Iteration for Locally Contractive Maps**

10:00 João Domingos

**Robust Target Localization via Linear-Fractional Representations**

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**MS10:** Optimization in forest management and wildfire- 3- location and forest management

**Room: 115**

Organizers: Ana Maria Rocha, Senhorinha Teixeira and Filipe Alvelos

Chair: Senhorinha Teixeira

8:30 FREE TIME

9:00 Eduardo Cunha

**Integrating remote sensing and wildfire simulation: a case study**

9:30 Isabel Martins

**Bringing wildfire resistance into forest management planning**

10:00 Filipe Alvelos

**Optimizing drone base locations for assessing forest fires**

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**MS12** The interplay between geometry and optimization -1

**Room: 211**

Organizers: Margarida Camarinha and Leonardo Colombo

Chair: Margarida Camarinha

8:30 María Barbero Liñán

**Retraction maps: a seed of geometric integrators for optimal control problems**

9:00 Cédric Campos

**Accelerated optimization via discrete variational calculus**

9:30 Esmeralda Sousa Dias

**Symmetries of deformable bodies**

10:00 Christopher Gadzinski

**Towards an Algebraic Perspective on Optimal Control**

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**MS13** Convergence rates of convex optimization methods - 2

**Room: 213**

Organizers: Geovani N. Grapiglia and Masoud Ahookhosh

Chair: Geovani N. Grapiglia

8:30 Anton Rodomanov

**Subgradient Ellipsoid Method for Nonsmooth Convex Problems**

9.00 Susan Ghaderi

**Convergence rate of Langevin MCMC methods for non-smooth potential functions**

9:30 Radu-Alexandru Dragomir

**First-order methods for some nonconvex quartic problems**

10:00 Masoud Ahookhosh

**High-Order Proximal-Point Methods Beyond Classical Settings**

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**MS15** Mind the gap: new results on the Lavrentiev phenomenon-2 - multidimensional problems

**Room: 215**

Organizers: Pierre Bousquet, Carlo Mariconda and Giulia Treu

Chair: Carlo Mariconda

8:30 FREE TIME

9:00 Anna Kh. Balci

**Analysis and numerics for (non)local models and differential forms with Lavrentiev gap: beyond regularity**

9.30 Filomena De Filippis

**No Lavrentiev gap for some double phase integrals**

10:00 Pierre Bousquet

**Non Occurrence of the Lavrentiev Gap for Multidimensional Autonomous Problems**

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**10:30- 11:00**

***Coffee Break***

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**11:00 to 11:45**

**Room: 118 *Plenary Talks***

Chair: Panos Pardalos

Co- Chair: Dalila Fontes

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**11:00 Mário Figueiredo**

**Alternating Direction Method of Multipliers in Imaging Inverse Problems: Overview of a Line of Work**

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***12:00 TRIP TO CONFERENCE BANQUET***

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***CONFERENCE BANQUET***