



EUROPT 2018
July 12- 13 Almería, Spain

Short Program

*16th EUROPT Workshop on Advances in
Continuous Optimization (EUROPT2018)*



<http://www2.ual.es/EurOPT18/>

Patrocinan



Program Committee

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Giancarlo Bigi (University of Pisa, Italy)
Immanuel Bomze (University of Vienna, Austria)
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Gerhard-Wilhelm Weber (Poznan University of Technology, Poland)
Julius Žilinskas (Vilnius University, Lithuania)

Organizing Committee

Pilar Martínez Ortigosa (University of Almería) *Chair*
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Eligius M.T. Hendrix (University of Málaga)
Inmaculada García Fernández (University of Málaga)
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Miriam Ruiz Ferrández (University of Almería)
Savins Puertas Martín (University of Almería)
Juan José Moreno Riado (University of Almería)
Francisco José Orts Gómez (University of Almería)

Thursday, 8:30 - 9:00

■ TA-01

Thursday, 8:30 - 9:00 - Aula Magna

Opening Session

Stream: Opening Session
Plenary session

Thursday, 9:00 - 9:50

■ TB-01

Thursday, 9:00 - 9:50 - Aula Magna

Plenary I : Coralia Cartis

Stream: Plenary III
Plenary session
Chair: *Emilio Carrizosa*

1 - Optimization with expensive and uncertain data - challenges and improvements
Coralia Cartis

Thursday, 10:00 - 10:50

■ TC-01

Thursday, 10:00 - 10:50 - Aula Magna

EUROPT Fellow Lecture

Stream: EUROPT Fellow Lecture
Plenary session
Chair: *Julius Žilinskas*

1 - EUROPT Fellow Lecture.
Europt Fellow 2018

Thursday, 11:30 - 13:00

■ TD-01

Thursday, 11:30 - 13:00 - Room 5

Efficient Bounding and Approximation in Conic Optimization and Copositivity

Stream: Conic and Copositive Optimization

Invited session

Chair: *Paula Amaral*

- 1 - Strong and Cheap SDP and SOCP Hierarchies for Polynomial Optimization**
Bissan Ghaddar, Xiaolong Kuang, Luis Zuluaga, Joe Naoum-Sawaya
 - 2 - On regular simplices and monotonicity in copositivity detection**
Eligius M.T. Hendrix, Leocadio G. Casado, Jose Manuel Garcia Salmeron
 - 3 - Efficient Bounds for Min-Max fractional problems**
Paula Amaral, Immanuel Bomze
 - 4 - A Copositive Approach for Decision Rule Approximations of Multi-Stage Robust Optimization Problems**
Guanglin Xu, Grani A. Hanasusanto
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■ TD-02

Thursday, 11:30 - 13:00 - Room 6

Convex optimization

Stream: Convex optimization

Contributed session

Chair: *Eligius M.T. Hendrix*

- 1 - Second order asymptotic functions**
Alfredo Iusem
 - 2 - Improved optimality conditions for fuzzy mathematical programming**
Beatriz Hernández-Jiménez, Rafaela Osuna-Gómez, Yurilev Chalco-Cano, Gabriel Ruiz-Garzón
 - 3 - On Lipschitz Lower Semicontinuity Properties of Feasible Set Mappings in Parametric Optimization Problems**
Maria Jesús Gisbert Francés, Maria Josefa Cánovas, Rene Henrion, Juan Parra
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■ TD-03

Thursday, 11:30 - 13:00 - Room 7

Optimal Control and Optimization in Economics and Finance I

Stream: Optimal Control and Optimization in Economics and Finance

Invited session

Chair: *Gerhard-Wilhelm Weber*

- 1 - On controlling the flux map of solar power tower plants through global optimization**
N.c. Cruz, Juana Lopez Redondo, J.d. Álvarez, Manuel Berenguel, Pilar M. Ortigosa
- 2 - Robust portfolio decisions for financial institutions**
Ioannis Baltas, Anastasios Xepapadeas, Athanasios Yannacopoulos

3 - Stochastic optimal control in the presence of regime switches, paradigm shifts jumps and delay, in finance, economics and medicine

Gerhard-Wilhelm Weber, Emel Savku

■ TD-04

Thursday, 11:30 - 13:00 - Room 8

Numerical Methods and Software I

Stream: Numerical Methods and Software

Contributed session

Chair: *Janos D. Pinter*

1 - An Inertial Forward-Backward Method for Solving Vector Optimization Problems

Sorin-Mihai Grad

2 - Young-programming: algorithms and applications

Anita Varga, Tibor Illés, Levente Mályusz

3 - Composite Test Functions for Benchmarking Nonlinear Optimization Software

Janos D. Pinter

■ TD-05

Thursday, 11:30 - 13:00 - Room 9

Multiobjective Optimization: Outer Approximation Techniques

Stream: Multiobjective Optimization

Invited session

Chair: *Gabriele Eichfelder*

1 - Tractability of Convex Vector Optimization Problems in the Sense of Polyhedral Approximations

Firdevs Ulus

2 - Approximating Projected Spectrahedra and Applications

Daniel Cirişoi, Andreas Löhne

3 - Convergence Results for a Branch-and-Bound based Algorithm for Nonconvex Multiobjective Optimization

Julia Niebling, Gabriele Eichfelder

■ TD-06

Thursday, 11:30 - 13:00 - Room 10

Variational problems and applications I

Stream: Variational problems and applications

Invited session

Chair: *Simone Sagratella*

1 - Fixed point and extragradient algorithms for quasi-equilibria

Mauro Passacantando, Giancarlo Bigi

2 - Generalized tensor variational inequalities applied to an economic model

Annamaria Barbagallo

3 - A dominance maximization approach to multi objective optimization

Lorenzo Lampariello, Francesco Cesarone, Simone Sagratella

4 - Numerically tractable optimistic bilevel problems

Simone Sagratella, Lorenzo Lampariello

Thursday, 14:30 - 16:00

■ TE-01

Thursday, 14:30 - 16:00 - Room 5

Copositive Optimization - Models and Applications

Stream: Conic and Copositive Optimization

Invited session

Chair: Immanuel Bomze

- 1 - Copositive Approach to adjustable robust optimization**
Markus Gabl

 - 2 - Trust your data or not - StQP remains StQP**
Michael Kahr, Immanuel Bomze, Markus Leitner

 - 3 - Copositive optimization on location models and cooperative games**
Justo Puerto

 - 4 - Notoriously hard (mixed-)binary QPs: new CP approaches and empirical evidence**
Immanuel Bomze, Jianqiang Cheng, Peter Dickinson, Liu Jia, Abdel Lisser
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■ TE-02

Thursday, 14:30 - 16:00 - Room 6

Continuous Location I.

Stream: Continuous Location

Invited session

Chair: Boglárka G.-Tóth

- 1 - Application of continuous optimisation techniques in solar power tower plants**
Thomas Ashley, Emilio Carrizosa, Enrique Fernández-Cara

 - 2 - A heuristic algorithm for solving a competitive facility location and design MINLP problem**
Laura Anton Sanchez, Juana Lopez Redondo, Jose Fernandez, Pilar M. Ortigosa

 - 3 - An interval branch-and-bound method for solving a MINLP competitive facility location and design problem**
Boglárka G.-Tóth, Jose Fernandez, Juana Lopez Redondo, Pilar M. Ortigosa
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■ TE-03

Thursday, 14:30 - 16:00 - Room 7

Optimal Control and Optimization in Economics and Finance II

Stream: Optimal Control and Optimization in Economics and Finance

Invited session

Chair: Gerhard-Wilhelm Weber

- 1 - Coupling decomposition with dynamic programming for a stochastic spatial model for medium-term energy management problem**
Luc Marchand, Philippe Mahey, Jean-Pierre Dussault

- 2 - Optimal sales-mix and generation plan for a risk averse electricity producer**
Paolo Falbo, Carlos Ruiz

3 - Renewables, Allowances Markets, and Capacity Expansion in Energy-Only Markets

Cristian Pelizzari, Paolo Falbo, Luca Taschini

■ TE-04

Thursday, 14:30 - 16:00 - Room 8

Numerical Methods and Software II

Stream: Numerical Methods and Software

Contributed session

Chair: *Ana Maria A.C. Rocha*

1 - The Traffic Assignment Problem: A comparison of route-based and link-based approaches

Sam O'Neill, Ovidiu Bagdasar, Stuart Berry, Nicolae Popovici

2 - Review of the recent enhancements for the global optimization bilevel BASBL solver

Remigijus Paulavičius, Claire Adjiman

3 - Practical convergence of metaheuristics in the context of a smoothed penalty

Ana Maria A.C. Rocha, M. Fernanda P. Costa, Edite M.G.P. Fernandes

■ TE-05

Thursday, 14:30 - 16:00 - Room 9

Multiobjective Optimization: Numerical Methods

Stream: Multiobjective Optimization

Invited session

Chair: *Gabriele Eichfelder*

1 - A method for constrained multiobjective optimization based on SQP techniques

A. Ismael F. Vaz, Joerg Fliege

2 - Solving Multiobjective Optimal Control Problems by Means of Model Predictive Control

Marleen Stieler, Lars Grüne

3 - A new method to find the full integer Pareto frontier in convex problems

Giorgio Grani, Laura Palagi, Marianna De Santis, Marianna De Santis

4 - A Multiobjective Trust Region Method for Expensive and Cheap Functions

Gabriele Eichfelder, Jana Thomann

■ TE-06

Thursday, 14:30 - 16:00 - Room 10

Variational Inequalities in Economic Problems I

Stream: Variational Inequalities in Economic Problems

Invited session

Chair: *Annamaria Barbagallo*

1 - Cutting surface algorithms for equilibria

Giancarlo Bigi, Giandomenico Mastroeni, Mauro Passacantando

2 - Dual decomposition approach for dynamic spatial equilibrium models: an analysis of the spot gas markets

Giorgia Oggioni, Elisabetta Allevi, Adriana Gnudi, Igor Konnov

3 - Optimality conditions for optimization problems on convex intersections of non necessarily convex sets

Rossana Riccardi, Elisabetta Allevi, Juan Enrique Martínez-Legaz

Thursday, 16:30 - 18:00

■ TF-01

Thursday, 16:30 - 18:00 - Room 5

Mathematical optimization in the real world

Stream: Mathematical optimization in the real world

Contributed session

Chair: *Sonia Cafieri*

- 1 - Optimal pump series design via semi-infinite programming**
Helene Krieg, Jan Schwientek, Dimitri Nowak, Karl-Heinz Küfer
 - 2 - Aerodynamic Design Optimization of Wind Turbine Airfoils under Uncertainty**
Edmondo Minisci
 - 3 - VDesign: a new optimization environment dedicated to preliminary design**
Jean Bligeon, Emmanuel Bigeon
 - 4 - A continuous optimization approach for aircraft conflict avoidance via speed and heading angle deviations**
Sonia Cafieri, Andrew Conn, Marcel Mongeau
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■ TF-02

Thursday, 16:30 - 18:00 - Room 6

Continuous Location II.

Stream: Continuous Location

Invited session

Chair: *Boglárka G.-Tóth*

- 1 - Incorporating discarding tests in an evolutionary algorithm: application to a competitive facility location and design problem**
Rafael Villegas, Jose Fernandez, Juana Lopez Redondo, Pilar M. Ortigosa, Boglárka G.-Tóth
 - 2 - Necessary optimality conditions for some nonconvex facility location problems**
Marcus Hillmann
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■ TF-03

Thursday, 16:30 - 18:00 - Room 7

Data Science and MINLP & Applications

Stream: Data Science and MINLP & Applications

Invited session

Chair: *Fatma Gzara*

- 1 - Distributed Column-Generation for large scale Mixed-Integer programming**
Mathieu Tanneau, Miguel F. Anjos, Andrea Lodi
 - 2 - Mathematical programming models for Multiple Instance Learning**
Annabella Astorino, Antonio Fuduli, Giovanni Giallombardo, Giovanna Miglionico
 - 3 - Simulation base optimization for capacity scheduling in e-warehousing.**
Fatma Gzara, Samir Elhedhli, Daniel Ulch, Paulo Carvalho
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■ TF-04

Thursday, 16:30 - 18:00 - Room 8

Numerical Methods and Software III

Stream: Numerical Methods and Software

Contributed session

Chair: *Ester M Garzon*

1 - On solving the equilibrium equations for rectangular RC Members at failure

Andrzej Stachurski, Marek Lechman

2 - Continuous-GRASP with 2 levels for large-scale nonlinear global optimization with general nonlinear constraints

João Lauro Faco^{}, Ricardo Silva, Mauricio Resende*

3 - BFGS-like updates of constraint preconditioners in quadratic optimization

Luca Bergamaschi, Angeles Martinez, Daniela di Serafino, Valentina De Simone

■ TF-05

Thursday, 16:30 - 18:00 - Room 9

Multiobjective Optimization: Robustness and Set-Valued Optimization

Stream: Multiobjective Optimization

Invited session

Chair: *Gabriele Eichfelder*

1 - Robust multiobjective optimization: Comparing different concepts and their solutions

Anita Schöbel, Yue Zhou-Kangas

2 - Set-valued/multiobjective optimization perspective in bilevel optimization

Alain Zemkoho

3 - Set optimization problems under asymptotic analysis

Ruben Lopez, Elvira Hernández

■ TF-06

Thursday, 16:30 - 18:00 - Room 10

Derivative-Free Optimization

Stream: Derivative-Free Optimization

Invited session

Chair: *Sébastien Le Digabel*

1 - Global convergence of a derivative-free inexact restoration filter algorithm for nonlinear programming

Francisco Sobral, Priscila Ferreira, Elizabeth Wegner Karas, Mael Sachine

2 - Improved DIRECT-type algorithm for constrained global optimization problems

Linas Stripinis, Julius Žilinskas, Remigijus Paulavičius

3 - NOMAD, a blackbox optimization software

Sébastien Le Digabel, Charles Audet, Viviane Rochon-Montplaisir, Christophe Tribes

Friday, 9:00 - 9:50

■ FA-01

Friday, 9:00 - 9:50 - Aula Magna

Plenary II: Angelika Wiegele

Stream: Plenary II

Plenary session

Chair: *Pilar M. Ortigosa*

1 - Algorithmic Approaches for Semidefinite Programming Applied to Combinatorial Optimization

Angelika Wiegele

Friday, 10:00 - 10:50

■ FB-01

Friday, 10:00 - 10:50 - Aula Magna

Plenary III. Frederic Messine.

Stream: Plenary I

Plenary session

Chair: *Leocadio G. Casado*

1 - Mathematical Optimization for Innovative Electromagnetical Designs

Frederic Messine

Friday, 11:30 - 13:00

■ FC-01

Friday, 11:30 - 13:00 - Room 5

Multi-objective optimization and applications I

Stream: Multi-objective optimization and Applications

Contributed session

Chair: Juana Lopez Redondo

- 1 - **A multi-objective approach for determining the parameters of epidemiological models**
Miriam Ruiz Ferrández, Juana Lopez Redondo, Benjamin Ivorra, Angel Manuel Ramos, Pilar M. Ortigosa
- 2 - **On Linear Programming Approximations of Mean-Variance Pareto Fronts**
Janusz Miroforidis, Przemysław Juszczuk, Ignacy Kaliszewski, Dmitry Podkopaev
- 3 - **Stretched Simulated Annealing for multi-objective programming**
Ana I. Pereira

■ FC-02

Friday, 11:30 - 13:00 - Room 6

Progress in interior-point methods and their applications

Stream: Progress in interior-point methods and their applications

Invited session

Chair: Tibor Illés

- 1 - **Improving the linear relaxation of maximum k-cut with semidefinite-based constraints**
Vilmar Rodrigues de Sousa, Miguel F. Anjos, Sébastien Le Digabel
- 2 - **Condition number estimation for switching preconditioners in interior point methods**
Aurelio Oliveira, Kelly Cadena, Carla Ghidini
- 3 - **A non-symmetric cone optimization approach to sum-of-squares optimization**
David Papp, Sercan Yildiz

■ FC-03

Friday, 11:30 - 13:00 - Room 7

Decomposition in MINLP

Stream: Decomposition in MINLP

Invited session

Chair: Ivo Nowak

- 1 - **On decomposition and dimension reduction in MINLP problems in order to solve them in parallel**
I. Garcia, Eligius M.T. Hendrix, Leocadio G. Casado
- 2 - **Decogo - A new decomposition-based MINLP solver**
Pavlo Muts, Ivo Nowak, Vitali Gintner
- 3 - **Decomposition-based Successive Approximation Methods for MINLP**
Ivo Nowak, Eligius M.T. Hendrix, Pavlo Muts

■ FC-04

Friday, 11:30 - 13:00 - Room 8

Machine Learning and Optimization and Applications I

Stream: Machine Learning and Optimization and Applications

Invited session

Chair: Laura Palagi

1 - Feature Selection with SVM and SVR for Functional Data

M. Asuncion Jimenez-Cordero, Rafael Blanquero, Emilio Carrizosa, Sebastian Maldonado, Belen Martin-Barragan

2 - Continuous Optimization for Randomized Classification Trees

Cristina Molero-Rfo, Rafael Blanquero, Emilio Carrizosa, Dolores Romero Morales

3 - A new Frank-Wolfe away-step SVM algorithm for multiclassification problems

Pedro Duarte Silva, Immanuel Bomze

4 - A fully distributable Lagrangian reformulation for SVMs training

Tommaso Colombo, Simone Sagratella

■ FC-05

Friday, 11:30 - 13:00 - Room 9

Multiobjective Optimization: Scalarizations and Location Problems

Stream: Multiobjective Optimization

Invited session

Chair: *Gabriele Eichfelder*

1 - Algebraic nonlinear scalarization in ordered linear spaces

César Gutiérrez, Vicente Novo, Juan Luis Ródenas

2 - A general tool for the investigation of scalarizations in multiobjective optimization

Petra Weidner

3 - Pareto efficient solutions in multi-objective optimization involving forbidden regions

Christian Günther

■ FC-06

Friday, 11:30 - 13:00 - Room 10

High Performance Computing in Global Optimization I

Stream: High Performance Computing in Global Optimization

Invited session

Chair: *Pilar M. Ortigosa*

1 - A genetic solution for scheduling on unrelated heterogeneous parallel machines

Gloria Ortega, Francisco José Orts Gómez, Antonio Manuel Puertas, Inmaculada García Fernández, Ester M Garzon

2 - SMACOF algorithm to compress hyperspectral images

Francisco José Orts Gómez, Ernestas Filatovas, Gloria Ortega, Olga Kurasova, Ester M Garzon

3 - New Parallel Non-Dominated Sorting to accelerate Evolutionary Multiobjective Optimization on Modern Computers

Juan José Moreno Riado, Gloria Ortega, Ernestas Filatovas, J.a. Martínez, Ester M Garzon

Friday, 14:30 - 16:00

■ FD-01

Friday, 14:30 - 16:00 - Room 5

Multi-objective optimization and applications II

Stream: Multi-objective optimization and Applications

Contributed session

Chair: *Gloria Ortega*

- 1 - **An Envelope Theorem for Convex Vector Programming**
Miguel Angel Melguizo Padial, Fernando García Castaño
- 2 - **An application of multiobjective programming to linear programming problems with fuzzy numbers**
Manuel Arana-Jiménez
- 3 - **On sets of lower bounds**
Alberto Zaffaroni

■ FD-02

Friday, 14:30 - 16:00 - Room 6

Advances in Interior Point Methods and Linear Complementarity Problems

Stream: Advances in Interior Point Methods and Linear Complementarity Problems

Invited session

Chair: *Miguel F. Anjos*

- 1 - **Generating sufficient matrices**
Sunil Morapitiye, Tibor Illés
- 2 - **Primal-dual Newton barrier interior point algorithm for sufficient linear complementarity problems**
Tibor Illés
- 3 - **Predictor-corrector interior-point algorithms for sufficient linear complementarity problems**
Petra Renáta Rigó, Tibor Illés, Zsolt Darvay

■ FD-03

Friday, 14:30 - 16:00 - Room 7

Global Optimization and Semidefinite Programming

Stream: Global Optimization and Semidefinite Programming

Invited session

Chair: *Juan Campos Salazar*

- 1 - **Worst-case examples for Lasserre's measure-based hierarchy for polynomial optimization**
Etienne De Klerk, Monique Laurent
- 2 - **On the Complexity of Testing Attainment of the Optimal Value in Nonlinear Optimization**
Amir Ali Ahmadi, Jeffrey Zhang
- 3 - **A Multigrid Approach to SDP Relaxations of Sparse Polynomial Optimization Problems**
Juan Campos Salazar, Panos Parpas

■ FD-04

Friday, 14:30 - 16:00 - Room 8

Machine Learning and Optimization and Applications II

Stream: Machine Learning and Optimization and Applications

Invited session

Chair: *Laura Palagi*

1 - Decentralized Dictionary Learning over Time-Varying Digraphs*Francisco Facchinei***2 - Optimization Models for Feature Selection in Machine Learning***Joe Naoum-Sawaya***3 - Decomposition methods for Deep Networks***Ruggiero Seccia, Laura Palagi*

■ FD-05*Friday, 14:30 - 16:00 - Room 9***Facility Layout and Related Problems**

Stream: Facility Layout

*Invited session*Chair: *Manuel V. C. Vieira***1 - A data-driven solution approach for the Facility Layout Problem***Samir Elhedhli, Daniel Ulch***2 - The container loading problem in a shoes manufacturer***Manuel V. C. Vieira***3 - Continuous Formulations for Facility Layout on Rows with Rectilinear Distance***Miguel F. Anjos, Manuel V. C. Vieira*

■ FD-06*Friday, 14:30 - 16:00 - Room 10***High Performance Computing in Global Optimization II**

Stream: High Performance Computing in Global Optimization

*Invited session*Chair: *Leocadio G. Casado***1 - An scalable CPU-GPU Parallelization of UEGO for predicting De Novo Protein Tertiary Structure***J.m. García-Martínez, Ester M Garzon, Pilar M. Ortigosa***2 - Optimizing electrostatic similarity using a global evolutionary algorithm***Savíns Puertas Martín***3 - Parallel global optimization and optimization for parallel computations***Julius Žilinskas***4 - On parallelization of a facet-based copositivity detection algorithm***Jose Manuel Garcia Salmeron, Leocadio G. Casado, Eligius M.T. Hendrix*

Friday, 16:30 - 17:30**■ FE-01***Friday, 16:30 - 17:30 - Aula Magna***Closing Session**

Stream: Closing Session

Invited session

Advances in Interior Point Methods and Linear Complementarity Problems

Tibor Illés

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Track(s): 2

Closing Session

Track(s): 1

Conic and Copositive Optimization

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Track(s): 1

Continuous Location

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Track(s): 2

Convex optimization

Track(s): 2

Data Science and MINLP & Applications

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Track(s): 3

Decomposition in MINLP

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Track(s): 3

Derivative-Free Optimization

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Track(s): 6

EUROPT Fellow Lecture

Track(s): 1

Facility Layout

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Track(s): 5

Global Optimization and Semidefinite Programming

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Track(s): 3

High Performance Computing in Global Optimization

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Track(s): 6

Machine Learning and Optimization and Applications

Laura Palagi

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Track(s): 4

Mathematical optimization in the real world

Track(s): 1

Multi-objective optimization and Applications

Track(s): 1

Multiobjective Optimization

Gabriele Eichfelder

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Track(s): 5

Numerical Methods and Software

Track(s): 4

Opening Session

Track(s): 1

Optimal Control and Optimization in Economics and Finance

Diogo Pinheiro

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Gerhard-Wilhelm Weber

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Track(s): 3

Plenary I

Track(s): 1

Plenary II

Track(s): 1

Plenary III

Track(s): 1

Progress in interior-point methods and their applications

Track(s): 2

Variational Inequalities in Economic Problems

Annamaria Barbagallo

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Track(s): 6

Variational problems and applications

Giancarlo Bigi

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Simone Sagratella

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Track(s): 6

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Adjiman, Claire	TE-04	Filatovas, Ernestas	FC-06
Ahmadi, Amir Ali	FD-03	Fliege, Joerg	TE-05
Allevi, Elisabetta	TE-06	Fuduli, Antonio	TF-03
Amaral, Paula	TD-01	G.-Tóth, Boglárka	TE-02, TF-02
Anjos, Miguel F.	FC-02, TF-03, FD-05	Gabl, Markus	TE-01
Anton Sanchez, Laura	TE-02	García Castaño, Fernando	FD-01
Arana-Jiménez, Manuel	FD-01	García-Martínez, J.m.	FD-06
Ashley, Thomas	TE-02	García Fernandez, Inmaculada	FC-06
Astorino, Annabella	TF-03	García Salmeron, Jose Manuel	TD-01, FD-06
Audet, Charles	TF-06	Garcia, I.	FC-03
Bagdasar, Ovidiu	TE-04	Garzon, Ester M	FC-06, FD-06
Baltas, Ioannis	TD-03	Ghaddar, Bissan	TD-01
Barbagallo, Annamaria	TD-06	Ghidini, Carla	FC-02
Berenguel, Manuel	TD-03	Giallombardo, Giovanni	TF-03
Bergamaschi, Luca	TF-04	Gintner, Vitali	FC-03
Berry, Stuart	TE-04	Gisbert Francés, Maria Jesús	TD-02
Bigeon, Emmanuel	TF-01	Gnudi, Adriana	TE-06
BIgeon, Jean	TF-01	Grad, Sorin-Mihai	TD-04
Bigi, Giancarlo	TD-06, TE-06	Grani, Giorgio	TE-05
Blanquero, Rafael	FC-04	Grüne, Lars	TE-05
Bomze, Immanuel	TD-01, TE-01, FC-04	Günther, Christian	FC-05
Cadena, Kelly	FC-02	Gutiérrez, César	FC-05
Caferi, Sonia	TF-01	Gzara, Fatma	TF-03
Campos Salazar, Juan	FD-03	Hanasusanto, Grani A.	TD-01
Carrizosa, Emilio	TE-02, FC-04	Hendrix, Eligius M.T.	TD-01, FC-03, FD-06
Cartis, Coralia	TB-01	Henrion, Rene	TD-02
Carvalho, Paulo	TF-03	Hernández, Elvira	TF-05
Casado, Leocadio G.	TD-01, FC-03, FD-06	Hernández-Jiménez, Beatriz	TD-02
Cánovas, Maria Josefa	TD-02	Hillmann, Marcus	TF-02
Cesarone, Francesco	TD-06	Illés, Tibor	FD-02, TD-04
Chalco-Cano, Yurilev	TD-02	Iusem, Alfredo	TD-02
Cheng, Jianqiang	TE-01	Ivorra, Benjamin	FC-01
Ciripoi, Daniel	TD-05	Jia, Liu	TE-01
Colombo, Tommaso	FC-04	Jimenez-Cordero, M. Asuncion	FC-04
Conn, Andrew	TF-01	Juszczuk, Przemysław	FC-01
Costa, M. Fernanda P.	TE-04	Kahr, Michael	TE-01
Cruz, N.c.	TD-03	Kaliszewski, Ignacy	FC-01
Darvay, Zsolt	FD-02	Karas, Elizabeth Wegner	TF-06
De Klerk, Etienne	FD-03	Konnov, Igor	TE-06
De Santis, Marianna	TE-05	Krieg, Helene	TF-01
De Simone, Valentina	TF-04	Kuang, Xiaolong	TD-01
di Serafino, Daniela	TF-04	Küfer, Karl-Heinz	TF-01
Dickinson, Peter	TE-01	Kurasova, Olga	FC-06
Duarte Silva, Pedro	FC-04	Lampariello, Lorenzo	TD-06
Dussault, Jean-Pierre	TE-03	Laurent, Monique	FD-03
Eichfelder, Gabriele	TD-05, TE-05	Le Digabel, Sébastien	TF-06
Elhedhli, Samir	TF-03, FD-05	Le Digabel, Sébastien	FC-02
F. Vaz, A. Ismael	TE-05	Lechman, Marek	TF-04
Facchinei, Francisco	FD-04	Leitner, Markus	TE-01
Faco', João Lauro	TF-04	Lisser, Abdel	TE-01
Falbo, Paolo	TE-03	Lodi, Andrea	TF-03
Fellow 2018, Europt	TC-01	Löhne, Andreas	TD-05
Fernandes, Edite M.G.P.	TE-04	Lopez Redondo, Juana	FC-01, TE-02, TF-02, TD-03
Fernandez, Jose	TE-02, TF-02	Lopez, Ruben	TF-05
		Mahey, Philippe	TE-03
		Maldonado, Sebastian	FC-04
		Marchand, Luc	TE-03

Martínez-Legaz, Juan Enrique	TE-06	Ramos, Angel Manuel	FC-01
Martin-Barragan, Belen	FC-04	Ródenas, Juan Luis	FC-05
Martinez, Angeles	TF-04	Resende, Mauricio	TF-04
Martinez, J.a.	FC-06	Riccardi, Rossana	TE-06
Mastroeni, Giandomenico	TE-06	Rigó, Petra Renáta	FD-02
Mályusz, Levente	TD-04	Rochon-Montplaisir, Viviane	TF-06
Melguizo Padial, Miguel Angel	FD-01	Rodrigues de Sousa, Vilmar	FC-02
Messine, Frederic	FB-01	Romero Morales, Dolores	FC-04
Miglionico, Giovanna	TF-03	Ruiz Ferrández, Miriam	FC-01
Minisci, Edmondo	TF-01	Ruiz, Carlos	TE-03
Miroforidis, Janusz	FC-01	Ruiz-Garzón, Gabriel	TD-02
Molero-Río, Cristina	FC-04	Sachine, Mael	TF-06
Mongeau, Marcel	TF-01	Sagratella, Simone	FC-04, TD-06
Morapitiye, Sunil	FD-02	Savku, Emel	TD-03
Moreno Riado, Juan José	FC-06	Schöbel, Anita	TF-05
Muts, Pavlo	FC-03	Schwientek, Jan	TF-01
Naoum-Sawaya, Joe	TD-01, FD-04	Seccia, Ruggiero	FD-04
Niebling, Julia	TD-05	Silva, Ricardo	TF-04
Novo, Vicente	FC-05	Sobral, Francisco	TF-06
Nowak, Dimitri	TF-01	Stachurski, Andrzej	TF-04
Nowak, Ivo	FC-03	Stieler, Marleen	TE-05
O'Neill, Sam	TE-04	Stripinis, Linas	TF-06
Oggioni, Giorgia	TE-06	Tanneau, Mathieu	TF-03
Oliveira, Aurelio	FC-02	Taschini, Luca	TE-03
Ortega, Gloria	FC-06	Thomann, Jana	TE-05
Ortega, Gloria	FC-06	Tribes, Christophe	TF-06
Ortigosa, Pilar M.	FC-01, TE-02, TF-02, TD-03, FD-06	Ulch, Daniel	TF-03, FD-05
Orts Gómez, Francisco José	FC-06	Ulus, Firdevs	TD-05
Osuna-Gómez, Rafaela	TD-02	Varga, Anita	TD-04
Žilinskas, Julius	FD-06, TF-06	Vieira, Manuel V. C.	FD-05
Palagi, Laura	FD-04, TE-05	Villegas, Rafael	TF-02
Papp, David	FC-02	Weber, Gerhard-Wilhelm	TD-03
Parpas, Panos	FD-03	Weidner, Petra	FC-05
Parra, Juan	TD-02	Wiegele, Angelika	FA-01
Passacantando, Mauro	TD-06, TE-06	Xepapadeas, Anastasios	TD-03
Paulavičius, Remigijus	TE-04, TF-06	Xu, Guanglin	TD-01
Pelizzari, Cristian	TE-03	Yannacopoulos, Athanasios	TD-03
Pereira, Ana I.	FC-01	Yildiz, Sercan	FC-02
Pinter, Janos D.	TD-04	Zaffaroni, Alberto	FD-01
Podkopaev, Dmitry	FC-01	Zemkoho, Alain	TF-05
Popovici, Nicolae	TE-04	Zhang, Jeffrey	FD-03
Puertas Martín, Savíns	FD-06	Zhou-Kangas, Yue	TF-05
Puertas, Antonio Manuel	FC-06	Zuluaga, Luis	TD-01
Puerto, Justo	TE-01		

Thursday, 8:30 - 9:00

TA-01: Opening Session (Aula Magna)	1
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TB-01: Plenary I : Coralia Cartis (Aula Magna)	1
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Thursday, 10:00 - 10:50

TC-01: EUROPT Fellow Lecture (Aula Magna)	2
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TD-02: Convex optimization (Room 6)	3
TD-03: Optimal Control and Optimization in Economics and Finance I (Room 7)	4
TD-04: Numerical Methods and Software I (Room 8)	4
TD-05: Multiobjective Optimization: Outer Approximation Techniques (Room 9)	5
TD-06: Variational problems and applications I (Room 10)	5

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TE-02: Continuous Location I. (Room 6)	7
TE-03: Optimal Control and Optimization in Economics and Finance II (Room 7)	8
TE-04: Numerical Methods and Software II (Room 8)	8
TE-05: Multiobjective Optimization: Numerical Methods (Room 9)	9
TE-06: Variational Inequalities in Economic Problems I (Room 10)	9

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TF-01: Mathematical optimization in the real world (Room 5)	11
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TF-03: Data Science and MINLP & Applications (Room 7)	12
TF-04: Numerical Methods and Software III (Room 8)	12
TF-05: Multiobjective Optimization: Robustness and Set-Valued Optimization (Room 9)	12
TF-06: Derivative-Free Optimization (Room 10)	13

Friday, 9:00 - 9:50

FA-01: Plenary II: Angelika Wiegele (Aula Magna)	14
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Friday, 10:00 - 10:50

FB-01: Plenary III. Frederic Messine. (Aula Magna)	14
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Friday, 11:30 - 13:00

FC-01: Multi-objective optimization and applications I (Room 5)	15
FC-02: Progress in interior-point methods and their applications (Room 6)	15
FC-03: Decomposition in MINLP (Room 7)	16
FC-04: Machine Learning and Optimization and Applications I (Room 8)	16
FC-05: Multiobjective Optimization: Scalarizations and Location Problems (Room 9)	17
FC-06: High Performance Computing in Global Optimization I (Room 10)	17

Friday, 14:30 - 16:00

FD-01: Multi-objective optimization and applications II (Room 5)	18
FD-02: Advances in Interior Point Methods and Linear Complementarity Problems (Room 6)	18
FD-03: Global Optimization and Semidefinite Programming (Room 7)	19
FD-04: Machine Learning and Optimization and Applications II (Room 8)	19
FD-05: Facility Layout and Related Problems (Room 9)	19
FD-06: High Performance Computing in Global Optimization II (Room 10)	20

Friday, 16:30 - 17:30

FE-01: Closing Session (Aula Magna)	21
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