



New Trends in

Parameter Identification for Mathematical Models

October 30th to November 3rd, 2017
IMPA, Rio de Janeiro, Brazil

Thematic Program on
Parameter identification in mathematical models

CERTIFICATE

We hereby certify that, **Adriano De Cezaro** - **Fundação Universidade do Rio Grande**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**On the Choice of the Tikhonov Regularization Parameter and the Discretization Level: A Discrepancy-Based Strategy**”.

Rio de Janeiro, November 3rd, 2017

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We hereby certify that, **Alexandre Kawano - USP - Escola Politécnica**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**Simultaneous Identification of Source, Initial Conditions and Asynchronous Sources in the Vibration Problem of Euler-Bernoulli Beams**”.

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We hereby certify that, **Antonio André Novotny - Laboratório Nacional de Computação Científica**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: **“New Non-Iterative Reconstruction Method for a Class of Inverse Problems”**.

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We hereby certify that, **Axel Osses** - **Centro de Modelamiento Matemático, Univ. de Chile**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**Algebraic Reconstruction of Source and Attenuation in SPECT Using First Scattering Measurements**”.

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We hereby certify that, **Barbara Kaltenbacher** - **Alpen-Adria-Universität Klagenfurt**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**All-at-once and minimization based formulations of inverse problems and their regularization**”.

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We hereby certify that, **Bastian Von Harrach - Goethe-Universität Frankfurt**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**Monotonicity-based regularization of inverse coefficient problems**”.

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We hereby certify that, **Carlos J. S. Alves** - Instituto Superior Tecnico - Universidade de Lisboa, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: **“The Reciprocity Functional and its Application to the Solution of Inverse Problems”**.

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We hereby certify that, **Carolina Palma Naveira Cotta - Engenharia Mecânica**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**Experimental-Theoretical Analysis of Biodiesel Synthesis in Micro-reactors with Inverse Problem Solution for Parameter**”.

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We hereby certify that, **Christian Clason** - **Univesitaet Duisburg-Essen**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**Discrete regularization of parameter identification problems**”.

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We hereby certify that, **Christine Boeckmann** - University of Potsdam, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**Modified Iterative Runge-Kutta-Type Methods for Nonlinear Ill-Posed Problems and Applications**”.

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We hereby certify that, **Christopher Hofmann - Tu Chemnitz (Chemnitz University of Technology)**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**Numerical Studies of Recovery Chances for a Simplified EIT Problem**”.

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We hereby certify that, **Daniel Watzenig - Graz University of Technology**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**Statistical Modeling and Bayesian Inference for Industrial Applications**”.

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We hereby certify that, **Denis Maillet - Université de Lorraine**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: **“Experimental Identification of Transfer Functions for Diffusive and/or Advective Heat or Mass Transfer for Linear Time Invariant”**.

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We hereby certify that, **Fabio Bozzoli** - **Università di Parma**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**Experimental Investigation about the Effect of Displaced Enhancement Devices on Local Convective Heat Transfer in Pipes**”.

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We hereby certify that, **Fabio Margotti** - **Universidade Federal de Santa Catarina**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**A Projection Strategy for Choosing the Regularization Parameter of Iterated-Tikhonov Method in Banach Spaces**”.

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We hereby certify that, **Frank Werner - Max Planck Institute for Biophysical Chemistry**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**Empirical Risk Minimization as Parameter Choice Rule for Filter-based Regularization Methods**”.

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We hereby certify that, **George S. Dulikravich - Florida International University**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: **“Parameter identification in differential equations: A hybrid minimization based method”**.

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We hereby certify that, **Gilmar Guimarães** - **Universidade Federal de Uberlândia**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**Transfer Function Based on Green's Function Method (TFBGF) Applied to the Thermal Parameter Estimation**”.

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We hereby certify that, **Guillermo Elicabe** - **Universidad Nacional de Mar del Plata**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**Thermal Parameter Identification in Remote Heating**”.

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We hereby certify that, **Haroldo Fraga de Campos Velho** - Instituto Nacional de Pesquisas Espaciais, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**Parameter identification for forecasting mathematical models depending on prediction time scale**”.

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We hereby certify that, **Johann Baumeister** - **Johann Wolfgang Goethe Universität**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**Online Identification of Parameters in Time Dependent Differential Equations Using Partial Observation**”.

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We hereby certify that, **Jose Herskovits Norman - Engenharia Mecânica**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: **“A Feasible Point Algorithm for Nonlinear Constrained Optimization and Some Applications to Parameter Identification”**.

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We hereby certify that, **Juan Pablo Agnelli - Universidad Nacional de Córdoba - Famaf**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: **“On the identification of piecewise constant coefficients in optical diffusion tomography by level set”**.

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We hereby certify that, **Liliane Basso Barichello** - **Universidade Federal do Rio Grande do Sul**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**On the Use of Analytical Techniques for Parameter Identification in Radiation and Particle Transport Models**”.

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We hereby certify that, **Michael Quellmalz - Tu Chemnitz (Chemnitz University of Technology)**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**An SVD Spherical Surface Wave Tomography**”.

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We hereby certify that, **Nilson Costa Roberty - Universidade Federal do Rio de Janeiro**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**Reconstruction of Coefficients and Source Parameters in Elliptic Systems**”.

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We hereby certify that, **Philippe Le-Masson - Université de Bretagne-Sud**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: **“Simulation of Welding: Estimation of Heat Sources and Multiphysical Modelisation”**.

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We hereby certify that, **Raul Lima - Cemepe-Secretaria Municipal de Educação**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: **“The Design of Electrical Impedance Tomographs Using an Observability Concept”**.

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We hereby certify that, **Regina Célia Cerqueira de Almeida - Laboratório Nacional de Computação Científica**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**Selection, calibration, and validation of models of tumor growth**”.

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We hereby certify that, **Robert Plato - Universität Siegen**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**Some new convergence rates results on variational Lavrentiev regularization for nonlinear monotone ill-posed problems**”.

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We hereby certify that, **Rubens Sampaio** - Pontifícia Universidade Católica do Rio de Janeiro, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**Smooth Modes as a Tool for Operational Modal Analysis: New Developments**”.

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We hereby certify that, **Shuai Lu - Fudan University**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**On parameter identification in linear stochastic differential equations by Gaussian statistics**”.

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We hereby certify that, **Thomas Schuster** - **Universität Des Saarlandes**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**Tomographic Terahertz Imaging Using Sequential Subspace Optimization**”.

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We hereby certify that, **Uno Hamarik - University of Tartu**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: **“Heuristic parameter choice in Tikhonov method from minimizers of the quasi-optimality function”**.

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We hereby certify that, **Urve Kangro** - **University of Tartu**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: **“On Self-Regularization of Ill-Posed Problems in Banach Spaces by Projection Methods”**.

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We hereby certify that, **Vinícius Viana Luiz Albani** - **Universidade Federal de Santa Catarina**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**Optimal Convergence Rates Results for Linear Inverse Problems in Hilbert Spaces**”.

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We hereby certify that, **William Rundell - Texas A&M University**, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: **“Inverse coefficient problems for diffusion operators: both classical and fractional order”**.

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We hereby certify that, **Zbigniew Bulinski** - Institut of Thermal Technology - Silesian University of Technology, participated in the New Trends in Parameter Identification for Mathematical Models, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from October 30th to November 3rd, 2017 and presented a plenary talk: “**Application of the Proper Orthogonal Decomposition for Bayesian Estimation of flow parameters in porous medium**”.

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