



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.

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We hereby certify that, **Aldelio Bueno Caldeira** - Instituto Militar de Engenharia, 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.

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We hereby certify that, **Alexander Meaney** - **Helsinki 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.

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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.

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We hereby certify that, **Aline de Lurdes Zuliani Lunkes - 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.

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We hereby certify that, **Americo Barbosa da Cunha Junior** - Universidade do Estado 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.

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We hereby certify that, **Andrea Mocerino - 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.

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We hereby certify that, **Andres Felipe Lerma - Universidad del Valle**, 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.

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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.

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We hereby certify that, **Antonio Leitão - 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.

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We hereby certify that, **Axel Osses - Centro de Modelamiento Matematico, 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.

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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.

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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.

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We hereby certify that, **Bernd 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.

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We hereby certify that, **Bruna Rafaella Loiola** - Instituto Alberto Luiz Coimbra de Pós-Graduação e Pesquisa de Engenharia, 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.

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We hereby certify that, **Bruno dos Reis Jaccoud** - 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.

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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.

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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.

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We hereby certify that, **César Cunha Pacheco - PEM - Programa de 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.

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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.

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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.

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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.

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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.

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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.

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We hereby certify that, **Doris Hinestroza G. - Universidad del Valle**, 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.

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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.

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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.

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We hereby certify that, **Farith M. Absi Salas - Centro de Pesquisas de Energia Elétrica**, 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.

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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.

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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.

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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.

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We hereby certify that, **Gnanasekaran - 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.

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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.

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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.

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We hereby certify that, **Helcio R. B. Orlande - 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.

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We hereby certify that, **Henrique Massard da Fonseca** - **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.

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We hereby certify that, **Italo Marcio Madeira - Petrobrás - Cenes**, 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.

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We hereby certify that, *jemy alex mandujano valle* - **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.

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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.

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We hereby certify that, **Johannes Schwab** - **University of Innsbruck**, 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.

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We hereby certify that, **Jorge P. Zubelli** - Instituto Nacional de Matemática Pura e Aplicada, 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.

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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.

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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.

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We hereby certify that, **Juan Pablo de Lima Costa Salazar - 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.

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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.

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We hereby certify that, **Luiz Alberto da Silva Abreu** - Instituto Politécnico 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.

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We hereby certify that, **Majela Penton** - **IMECC**, 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.

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We hereby certify that, **Marcelo Actis - Universidad Nacional del Litoral**, 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.

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We hereby certify that, **Marcelo José Colaço** - PEM - Programa de 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.

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We hereby certify that, **Mario Luiz Previatti de Souza** - **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.

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We hereby certify that, **Marisa dos Reis Cantarino** - Instituto de Matemática e Estatística, 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.

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We hereby certify that, **Markus Juvonen** - **Helsinki 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.

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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.

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We hereby certify that, **Miguel Angel Dumett Canales** - San Diego State University-Csrc, 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.

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We hereby certify that, **Milena Vilar França - 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.

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We hereby certify that, ***mohsen alaeian*** - **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.

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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.

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We hereby certify that, ***Nilton Pereira da Silva*** - **Universidade Federal do Amazonas**, 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.

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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.

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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.

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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.

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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.

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We hereby certify that, **Rodolfo da Silva Machado de Freitas** - Instituto Alberto Luiz Coimbra de Pós-Graduação e Pesquisa de Engenharia, 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.

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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.

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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.

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We hereby certify that, **Stephan Antholzer** - **University of Innsbruck**, 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.

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We hereby certify that, **THIAGO RITTO** - 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.

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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.

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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.

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We hereby certify that, **Uri Ascher - Univ. of British Columbia**, 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.

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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.

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We hereby certify that, **Vanderlei Coelho de Oliveira Jr - Observatório Nacional**, 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.

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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.

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We hereby certify that, **Vocale Pamela - 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.

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We hereby certify that, **Wagner Barbosa Muniz** - 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.

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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.

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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.

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