

celebrating Alfredo Iusem's 70th birthday

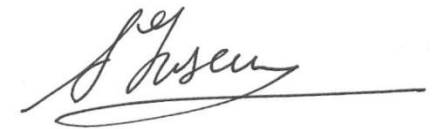
XIII Brazilian Workshop on Continuous Optimization

IMPA, Rio de Janeiro, Brazil
September 23rd to 27th, 2019

CERTIFICATE

We hereby certify that, **Ademir Alves Ribeiro** - **Universidade Federal do Paraná**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

Rio de Janeiro, September 27th, 2019



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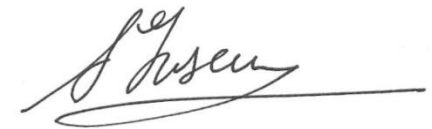
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CERTIFICATE

We hereby certify that, **Alan Sousa França** - **Universidade Estadual do Sudoeste da Bahia**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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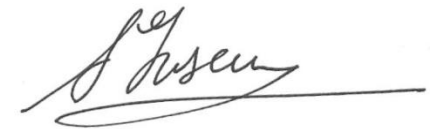
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CERTIFICATE

We hereby certify that, **Alexander Kruger** - **Federation University Australia**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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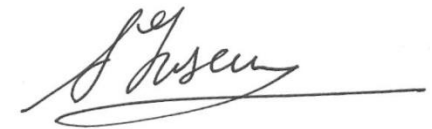
Brazilian Workshop on Continuous Optimization

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CERTIFICATE

We hereby certify that, **Alfredo Iusem - Instituto de Matemática Pura e Aplicada**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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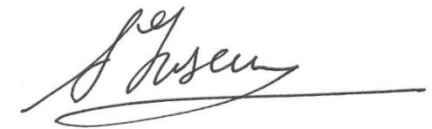
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We hereby certify that, **Angelica Miluzca Victorio Celis** - Instituto Alberto Luiz Coimbra de Pós-Graduação e Pesquisa de Engenharia, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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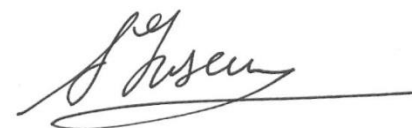
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We hereby certify that, **Benar Fux Svaiter** - Instituto de Matemática Pura e Aplicada, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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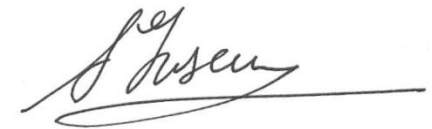
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We hereby certify that, **Carolina Effio Saldivar** - **Universidade Federal do Rio de Janeiro**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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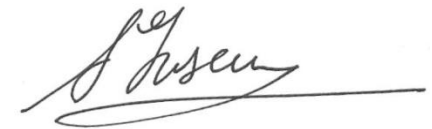
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We hereby certify that, **Clovis Gonzaga - Universidade Federal de Santa Catarina**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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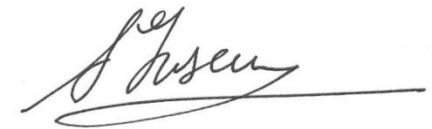
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We hereby certify that, **Damián Fernández - Universidad Nacional de Córdoba**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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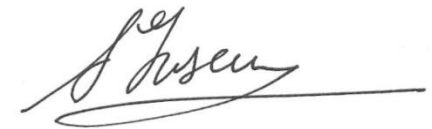
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We hereby certify that, **Elizabeth Wegner Karas** - **Universidade Federal do Paraná**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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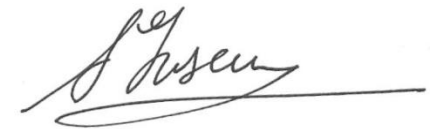
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We hereby certify that, **Emerson Butyn** - **Universidade Federal do Paraná**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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We hereby certify that, **Ernesto G. Birgin** - Inst.Mat. e Estatística - Univ. de São Paulo, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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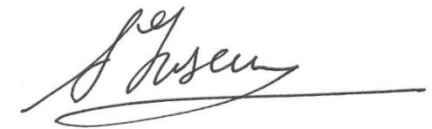
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We hereby certify that, ***Evelin Heringer Manoel Krulikovski*** - **Universidade Federal do Paraná**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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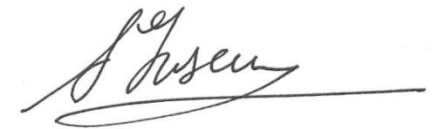
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We hereby certify that, **Felipe Ignacio Lara Obreque** - **Universidad de Tarapacá**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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We hereby certify that, **Fernanda Maria Pereira Raupp - Laboratório Nacional de Computação Científica**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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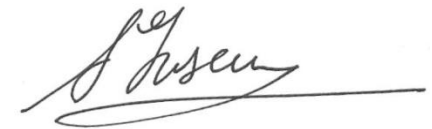
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We hereby certify that, **Gabriel Haeser** - Instituto de Matemática e Estatística da USP, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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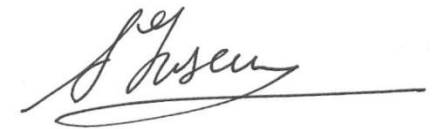
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We hereby certify that, **Guilherme Bodin** - Pontifícia Universidade Católica do Rio de Janeiro, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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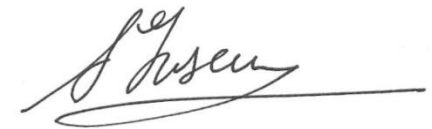
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We hereby certify that, **Ismael Navarrete Márquez** - **Universidade Estadual de Campinas**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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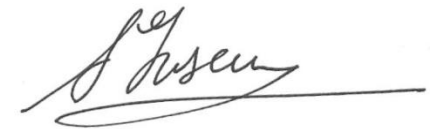
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We hereby certify that, **Jefferson Divino Gonçalves de Melo** - **Universidade Federal de Goiás**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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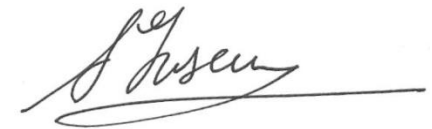
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We hereby certify that, **João Carlos de Oliveira Souza** - **Universidade Federal do Piauí**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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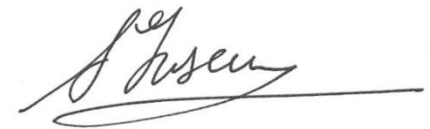
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We hereby certify that, **João Xavier da Cruz Neto** - **Universidade Federal do Piauí**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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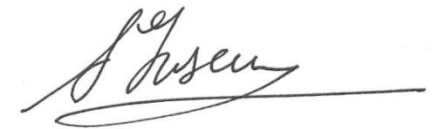
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We hereby certify that, **Joaquim Dias Garcia** - Pontifícia Universidade Católica do Rio de Janeiro, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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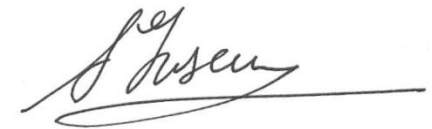
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We hereby certify that, **Joaquim Judice** - Instituto de Telecomunicações, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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We hereby certify that, **Jose Alberto Ramos Flor** - **Universidade Federal do Paraná**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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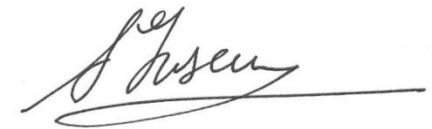
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We hereby certify that, **José Gonçalves de Oliveira Rufino** - **Universidade Federal do Piauí**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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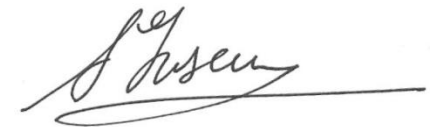
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We hereby certify that, **José Mario Martínez - IMECC**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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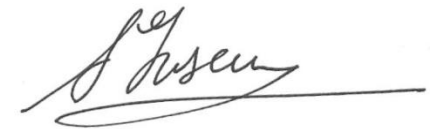
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We hereby certify that, **Juliana Gomes da Silva** - **Universidade Federal do Paraná**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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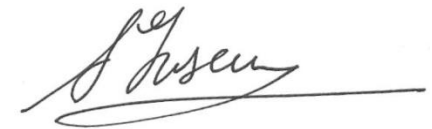
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We hereby certify that, **Jurandir de Oliveira Lopes** - **Universidade Federal do Piauí**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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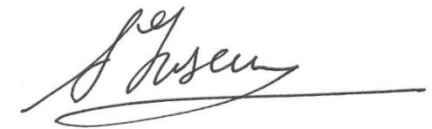
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We hereby certify that, **Leandro da Fonseca Prudente** - **Universidade Federal de Goiás**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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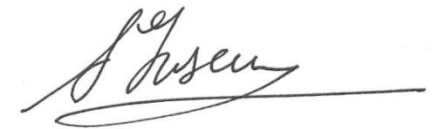
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We hereby certify that, **Lennin Mallma Ramirez** - **Universidade Federal do Rio de Janeiro**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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We hereby certify that, **Léonard von Niederhäusern** - **Center for Mathematical Modeling - Chile**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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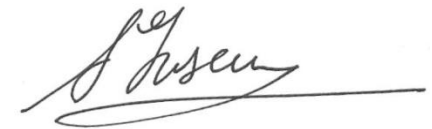
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We hereby certify that, **Leonardo Delarmelina Secchin** - **Universidade Federal do Espírito Santo**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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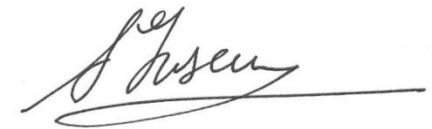
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We hereby certify that, **Letícia Becher da Silva** - **Universidade Federal do Paraná**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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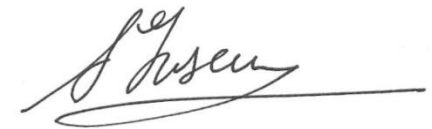
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We hereby certify that, **Luis Felipe Cesar da Rocha Bueno** - **Universidade Federal de São Paulo**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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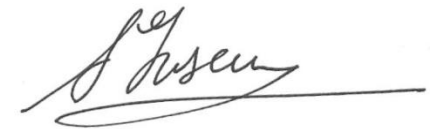
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We hereby certify that, **Luis Mauricio Graña Drummond** - **Universidade Federal do Rio de Janeiro**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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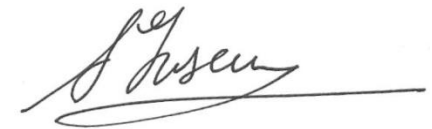
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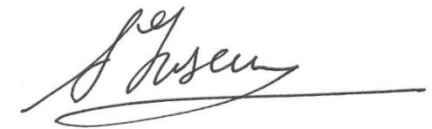
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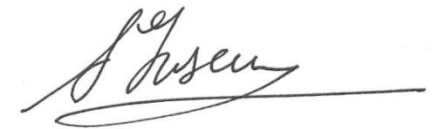
XIII Brazilian Workshop on Continuous Optimization

IMPA, Rio de Janeiro, Brazil
September 23rd to 27th, 2019

CERTIFICATE

We hereby certify that, **Maicon Marques Alves** - **Universidade Federal de Santa Catarina**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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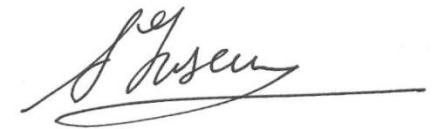
Brazilian Workshop on Continuous Optimization

IMPA, Rio de Janeiro, Brazil
September 23rd to 27th, 2019

CERTIFICATE

We hereby certify that, **Majela Penton - Universidade Federal da Bahia**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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CERTIFICATE

We hereby certify that, **Manoel de Sá Jardim Neto - Petróleo Brasileiro S/a**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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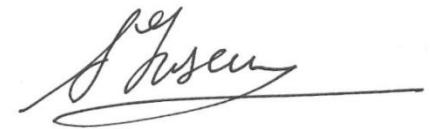
Brazilian Workshop on Continuous Optimization

IMPA, Rio de Janeiro, Brazil
September 23rd to 27th, 2019

CERTIFICATE

We hereby certify that, **Marcio Antônio de Andrade Bortoloti** - **Universidade Estadual do Sudoeste da Bahia**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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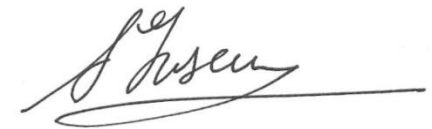
XIII Brazilian Workshop on Continuous Optimization

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CERTIFICATE

We hereby certify that, **Mario Souto** - **Pontifícia Universidade Católica do Rio de Janeiro**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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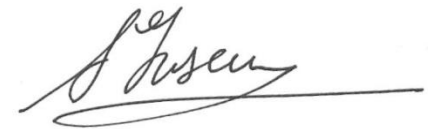
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CERTIFICATE

We hereby certify that, **Maryam Fazel** - **University of Washington**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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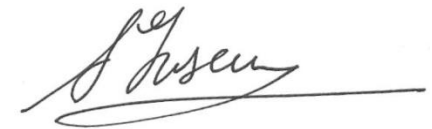
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CERTIFICATE

We hereby certify that, **Mauricio Romero Sicre - Universidade Federal da Bahia**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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We hereby certify that, **Michael Orlitzky** - **University of Maryland - Baltimore County**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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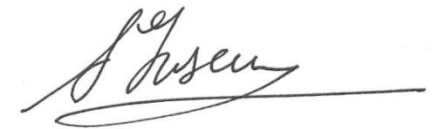
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CERTIFICATE

We hereby certify that, **Miguel A. Goberna** - **Universidad de Alicante**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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We hereby certify that, **Mikhail Solodov** - Instituto de Matemática Pura e Aplicada, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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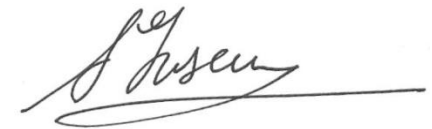
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CERTIFICATE

We hereby certify that, **Natasa Krejic** - Faculty of Sciences – University of Novi Sad, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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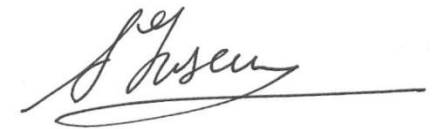
XIII Brazilian Workshop on Continuous Optimization

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CERTIFICATE

We hereby certify that, **Nelson Maculan** - Programa de Engenharia de Sistemas e Computação, Coppe/UFRJ, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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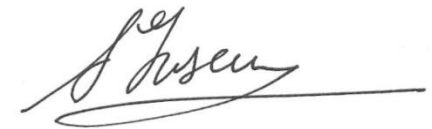
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CERTIFICATE

We hereby certify that, **Nicolas Esteban Fuentealba Armijo** - Instituto de Matemática e Estatística da USP, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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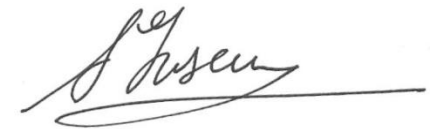
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CERTIFICATE

We hereby certify that, **Orestes Martín Bueno Tangoa - Universidad del Pacifico**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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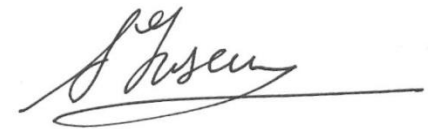
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CERTIFICATE

We hereby certify that, **Orizon Pereira Ferreira - Universidade Federal de Goiás**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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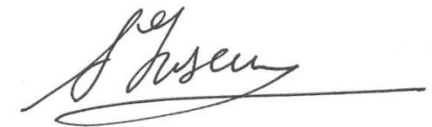
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We hereby certify that, **Paulo José da Silva e Silva - IMECC**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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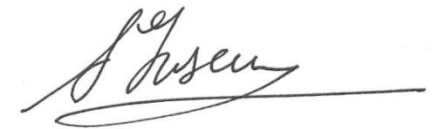
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We hereby certify that, **Philip Thompson - University of Cambridge**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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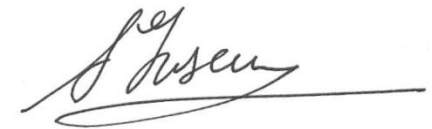
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CERTIFICATE

We hereby certify that, **Rafael Durbano Lobato** - **Università di Pisa**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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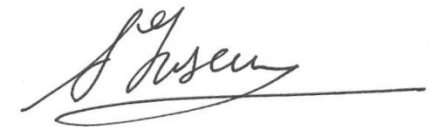
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CERTIFICATE

We hereby certify that, **Roberto Andreani - IMECC**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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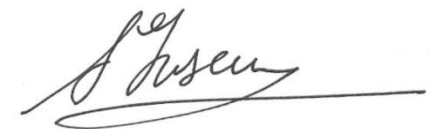
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CERTIFICATE

We hereby certify that, **Roberto Cominetti** - **Universidad Adolfo Ibáñez**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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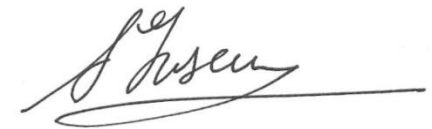
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We hereby certify that, **Roger Behling** - **Fundação Getúlio Vargas**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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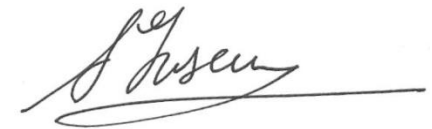
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CERTIFICATE

We hereby certify that, **Rolando Gárciga Otero** - **Universidade Federal do Rio de Janeiro**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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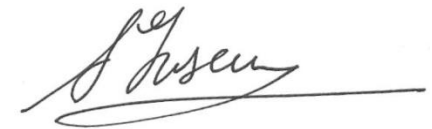
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We hereby certify that, **Russell Luke** - **Georg-August-Universitaet Goettingen**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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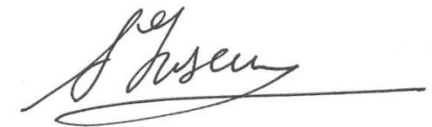
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CERTIFICATE

We hereby certify that, **Sandra Augusta Santos - IMECC**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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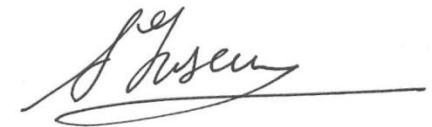
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We hereby certify that, **Stefania Bellavia** - **Florence University**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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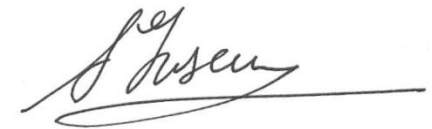
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We hereby certify that, **Suliman Alhomidan** - King Fahd University of Petroleum & Minerals, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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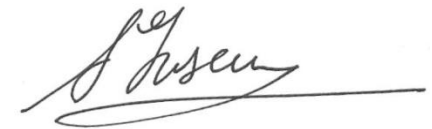
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CERTIFICATE

We hereby certify that, **Susana Scheimberg de Makler** - Programa de Engenharia de Sistemas e Computação, Coppe/UFRJ, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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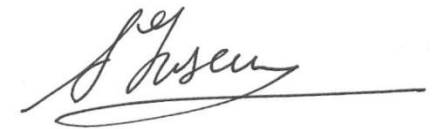
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CERTIFICATE

We hereby certify that, **Teles Araujo Fernandes** - **Universidade Estadual do Sudoeste da Bahia**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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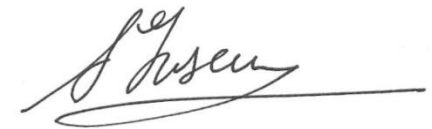
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We hereby certify that, **Thadeu Alves Senne - Universidade Federal de São Paulo**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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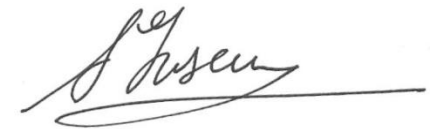
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We hereby certify that, **Thiago Parente da Silveira - Universidade de São Paulo**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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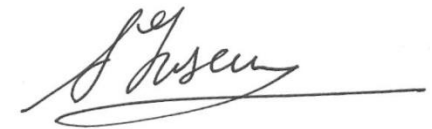
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We hereby certify that, **Tiago da Costa Menezes** - **Universidade Federal de Goiás**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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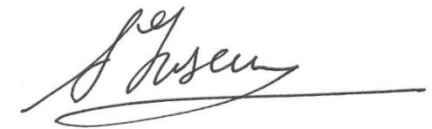
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We hereby certify that, **Wilfredo Sosa Sandoval** - **Universidade Catolica de Brasilia**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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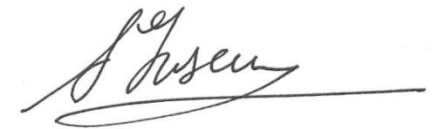
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CERTIFICATE

We hereby certify that, **Wilkreffy Manoel de Sousa Santos** - **Universidade Federal do Piauí**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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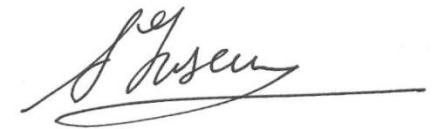
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We hereby certify that, **Yboon Victoria García Ramos - Universidad del Pacifico**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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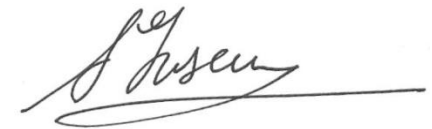
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We hereby certify that, **Yuan Jin Yun - Universidade Federal do Paraná**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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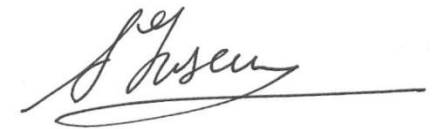
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We hereby certify that, **Yunier Bello-Cruz - Northern Illinois University**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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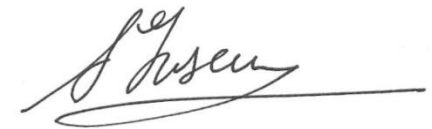
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CERTIFICATE

We hereby certify that, **Yurii Nesterov - Université Catholique de Louvain**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019.

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