

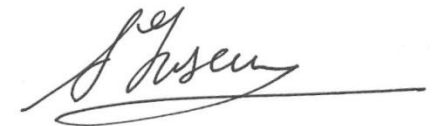
XIII celebrating Alfredo Iusem's 70th birthday
**Brazilian Workshop on
Continuous Optimization**

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

CERTIFICATE

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 and presented the following Poster: “**Derivative-free optimization with copula-based models for probability maximization problems**”.

Rio de Janeiro, September 27th, 2019



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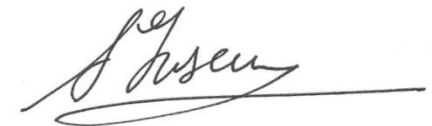
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CERTIFICATE

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 and presented the following Poster: “**Theoretical Analysis of Support Vector Machine with Cardinality Constraint**”.

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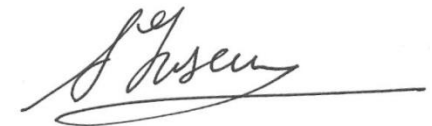
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CERTIFICATE

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 and presented the following Poster: “**On eigenvalue-based methods for the trust-region subproblem**”.

Rio de Janeiro, September 27th, 2019



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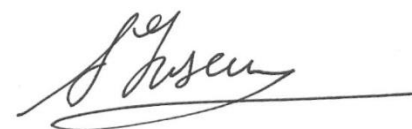
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CERTIFICATE

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 and presented the following Poster: “**Generalized Graph Product and its Application on Generating Solutions of the Millennium n -Queens Problem**”.

Rio de Janeiro, September 27th, 2019



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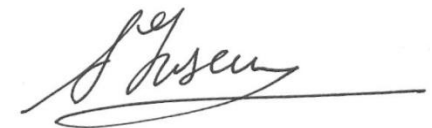
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CERTIFICATE

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 and presented the following Poster: “**An interior proximal linearized method for DC programming based on Bregman distance or second-order homogeneous kernels**”.

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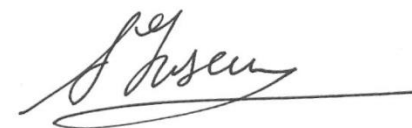
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CERTIFICATE

We hereby certify that, **Luiz-Rafael Santos** - **Universidade Federal de Santa Catarina**, participated in the *XIII Brazilian Workshop on Continuous Optimization* held at IMPA, Rio de Janeiro, September 23 – 27, 2019 and presented the following Poster: “**Towards an efficient Augmented Lagrangian method for convex quadratic programming**”.

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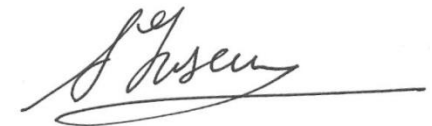
XIII Brazilian Workshop on Continuous Optimization

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CERTIFICATE

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 and presented the following Poster: “**Gauss-Newton methods with approximate projections for solving constrained nonlinear least squares problems**”.

Rio de Janeiro, September 27th, 2019



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