



# CERTIFICATE

IMPA, Rio de Janeiro, Brazil  
November 25<sup>th</sup> to 30<sup>th</sup>, 2017



We hereby certify that, **cesar igal torres ortiz, USP - Escola Politécnica**, participated in the Mathematics & Finance: Research in Options 2017, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 25<sup>th</sup> to 30<sup>th</sup>, 2017 and presented the following poster: **“Bayesian Econometrics in Macro-Stress Testing”**.

Rio de Janeiro, November 30<sup>th</sup>, 2017.

Jorge P. Zubelli  
Organizing Committee



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November 25<sup>th</sup> to 30<sup>th</sup>, 2017



We hereby certify that, **Helder Alan Rojas Molina, Instituto de Matemática e Estatística**, participated in the Mathematics & Finance: Research in Options 2017, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 25<sup>th</sup> to 30<sup>th</sup>, 2017 and presented the following poster: **“A stochastic model for price and spread dynamics in some liquidity regimens”**.

Rio de Janeiro, November 30<sup>th</sup>, 2017.

Jorge P. Zubelli  
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We hereby certify that, **Isaque Santa Brigida Pimentel, École Polytechnique**, participated in the Mathematics & Finance: Research in Options 2017, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 25<sup>th</sup> to 30<sup>th</sup>, 2017 and presented the following poster: “**Hedging with non-quadratic local risk-minimization**”.

Rio de Janeiro, November 30<sup>th</sup>, 2017.

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We hereby certify that, **Luiz Paulo da Cruz Scarp**, **Centro Universitário Unifaminas**, participated in the Mathematics & Finance: Research in Options 2017, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 25<sup>th</sup> to 30<sup>th</sup>, 2017 and presented the following poster: **“An agent-based artificial options market”**.

Rio de Janeiro, November 30<sup>th</sup>, 2017.

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November 25<sup>th</sup> to 30<sup>th</sup>, 2017



We hereby certify that, **Matheus Lima Cornejo**, **Universidade Federal do Espírito Santo**, participated in the Mathematics & Finance: Research in Options 2017, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 25<sup>th</sup> to 30<sup>th</sup>, 2017 and presented the following poster: “**Robust singular spectrum analysis: an empirical study**”.

Rio de Janeiro, November 30<sup>th</sup>, 2017.

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November 25<sup>th</sup> to 30<sup>th</sup>, 2017



We hereby certify that, **Melba Luz Torres Ortiz, Instituto de Matemática e Estatística**, participated in the Mathematics & Finance: Research in Options 2017, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 25<sup>th</sup> to 30<sup>th</sup>, 2017 and presented the following poster: “**Numerical Solutions of Partial Differential Equations via Simulated Annealing**”.

Rio de Janeiro, November 30<sup>th</sup>, 2017.

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November 25<sup>th</sup> to 30<sup>th</sup>, 2017



We hereby certify that, **Rosember Guerra, Eafit**, participated in the Mathematics & Finance: Research in Options 2017, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 25<sup>th</sup> to 30<sup>th</sup>, 2017 and presented the following poster: “**Focused Estimation in Portfolio Selection Problems**”.

Rio de Janeiro, November 30<sup>th</sup>, 2017.

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November 25<sup>th</sup> to 30<sup>th</sup>, 2017

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We hereby certify that, **Winicius Botelho Faquiere**, **Universidade do Estado do Rio de Janeiro**, participated in the Mathematics & Finance: Research in Options 2017, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 25<sup>th</sup> to 30<sup>th</sup>, 2017 and presented the following poster: “**Financialization of the commodity future markets through factor models**”.

Rio de Janeiro, November 30<sup>th</sup>, 2017.

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We hereby certify that, **Yuri Resende Fonseca**, Instituto Militar de Engenharia, participated in the Mathematics & Finance: Research in Options 2017, held at Instituto Nacional de Matemática Pura e Aplicada - IMPA - Rio de Janeiro, from November 25<sup>th</sup> to 30<sup>th</sup>, 2017 and presented the following poster: “**Predicting volatility surfaces with GAS models and SABR parametrization**”.

Rio de Janeiro, November 30<sup>th</sup>, 2017.

Jorge P. Zubelli  
Organizing Committee

