



Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that **Adriana Washington Henarejos** participated in the 1st **Carioca Workshop in Optimization and Applications - CariOPT 2025** held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp,

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We certify that **Alejandro Jofré** participated in the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that Ana Beatriz Botacim Rodrigues participated in the 1st

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We certify that **Angel Jhesua Machado Rodriguez** participated in the 1st **Carioca Workshop in Optimization and Applications - CariOPT 2025** held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that **Beatriz de Souza** participated in the 1st Carioca

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We certify that **Benar Svaiter** participated in the 1st Carioca

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We certify that **Bernardo da Costa** participated in the 1st Carioca

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We certify that **Cristóbal Guzmán** participated in the 1st **Carioca**Workshop in Optimization and Applications - CariOPT 2025 held at

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We certify that **Débora de Oliveira Medeiros** participated in the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that **Di Liu** participated in the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that **Dimary del Carmen Moreno López** participated in the 1st **Carioca Workshop in Optimization and Applications - CariOPT 2025** held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that **Douglas Soares Gonçalves** participated in the 1st **Carioca Workshop in Optimization and Applications - CariOPT 2025** held at

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We certify that **Eduardo Nunes Alves** participated in the 1st Carioca

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We certify that **Eduardo Adame Salles** participated in the 1st **Carioca**Workshop in Optimization and Applications - CariOPT 2025 held at

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We certify that **Felipe Bueno** participated in the 1st Carioca

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We certify that **Felipe Ignacio Lara Obreque**participated in the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that **Fredson Silva de Souza Aguiar** participated in the 1st **Carioca Workshop in Optimization and Applications - CariOPT 2025** held

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We certify that **Gabriel Belém Barbosa** participated in the 1st Carioca

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We certify that **Gabriel Pavanato** participated in the 1st Carioca

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We certify that **Hanna Rodrigues Ferreira** participated in the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that **Henrique Fontes** participated in the 1st Carioca

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We certify that **Henzo Felipe Carvalho de Mattos** participated in the 1st **Carioca Workshop in Optimization and Applications - CariOPT 2025** held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that Jairon Henrique Noia Batista participated in the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that Janaina Neres Evangelista participated in the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that Jefferson Divino Gonçalves de Melo participated in the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that João Alcindo Ribeiro de Azevedo participated in the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that João Carlos de Oliveira Souza participated in the 1st

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We certify that João Guilherme de Souza Gomes participated in the 1st

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We certify that João Pedro Jerônimo de Oliveira participated in the 1st

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We certify that João Pereira participated in the 1st Carioca

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We certify that Juan Flores participated in the 1st Carioca

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We certify that **Leonardo Pagarin** participated in the 1st Carioca

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We certify that Luís Felipe Cesar da Rocha Bueno participated in the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that Luís Henrique Domingues Bueno participated in the 1st

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We certify that **Luís Teodoro Fonseca** participated in the 1st **Carioca**Workshop in Optimization and Applications - CariOPT 2025 held at

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We certify that **Luiz Fernando Guilhem Nassif Maia** participated in the **1**st **Carioca Workshop in Optimization and Applications - CariOPT 2025** held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that Luiz-Rafael Santos participated in the 1st Carioca

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We certify that **Majela Pentón Machado** participated in the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that **Manoel de Sá Jardim Neto** participated in the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that **Maria Izabel Camacho** participated in the 1st Carioca

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We certify that Maria Soledad Aronna participated in the 1st Carioca

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We certify that Matheus Vilarino de Souza Pinto participated in the 1st

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We certify that **Nícolas Mateus Spaniol** participated in the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that Oscar Sierra Fonseca participated in the 1st Carioca

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We certify that **Otávio Alves** participated in the **1**st **Carioca**Workshop in **Optimization and Applications - CariOPT 2025** held

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We certify that **Pablo Andrade Barros** participated in the 1st **Carioca**Workshop in Optimization and Applications - CariOPT 2025 held at

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We certify that **Pablo Levy Alcântara** participated in the 1st Carioca

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We certify that **Paulo Cesar Santos** participated in the 1st **Carioca**Workshop in Optimization and Applications - CariOPT 2025 held at

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We certify that Paulo José da Silva e Silva participated in the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that **Philip Thompson** participated in the 1st Carioca

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We certify that Rafael Gontijo Ferreira participated in the 1st Carioca

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We certify that Ramyro Corrêa Aquines participated in the 1st Carioca

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We certify that **Roberta Müller Nuñes** participated in the 1st Carioca

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We certify that Rodrigo Cavalcante Kalil participated in the 1st Carioca

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We certify that Roger Behling participated in the 1st Carioca

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We certify that Ruan Felipe da Silva e Sousa participated in the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that Rudá Dantas Ruoso Brandão participated in the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that **Samuel Boldrini Velten** participated in the 1st **Carioca Workshop in Optimization and Applications - CariOPT 2025** held at

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We certify that **Susana Scheimberg** participated in the 1st **Carioca**Workshop in Optimization and Applications - CariOPT 2025 held at

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We certify that **Thalis Ambrosim Falqueto** participated in the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that **Thiago Parente da Silveira** participated in the **1**st **Carioca Workshop in Optimization and Applications - CariOPT 2025** held at

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We certify that **Tomas Ferranti** participated in the 1st **Carioca**Workshop in Optimization and Applications - CariOPT 2025 held
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We certify that **Vincent Gérard Yannick Guigues** participated in the 1st **Carioca Workshop in Optimization and Applications - CariOPT 2025** held

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We certify that Wilfredo Sosa Sandoval participated in the 1st Carioca Workshop in Optimization and Applications - CariOPT 2025 held at School of Applied Mathematics of Getulio Vargas Foundation - FGV EMAp, Rio de Janeiro, from May 05 to May 07, 2025.

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We certify that Wilkreffy Manoel de Sousa Santos participated in the 1st

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