



Wednesday, 12 April 2023

9h30 - 10h

Welcome Coffee

10h - 11h

Introduction and Welcome

11h - 12h

Keynote 1

Patrick Valduriez (Inria) - "Data Science and Innovation"

12h - 14h

Lunch

14h - 15h30

Session 1 – Scientific Computing & AI

- Alvaro Coutinho (UFRJ) - "Recent Advances in Scientific Machine Learning"
- Clément Maria (Inria) - "Aspects of Topological Data Analysis"
- Frédéric Valentin (LNCC) - "Multiscale Methods and Their Interplay with Artificial Intelligence"
- Konstantin Brenner (Inria) - "Tackling high-resolution urban flood modeling with domain decomposition and multi-scale discretization methods"

15h30 - 16h30

Coffee break // Visit of Santos Dumont Supercomputer

16h30 - 17h

Cooperation Programs

Nacer Boubenna (French Embassy)

Cécile Vigouroux /Claire Saint-Léger (Inria)

Ana Beatriz Ramadas da Cruz (FAPERJ)

Thursday 13, April 2023

9h - 9h30

Welcome Coffe and Introduction

9h30 - 10h30

Keynote 2

Pablo Blanco (LNCC) - "Modeling the cardiovascular system. Some known knowns and unknown unknowns"

10h30 - 11h

Break

11h - 12h30

Session 2 - HPC

- Carla Osthoff (LNCC) and Kary Ocana (LNCC) - "Developing Efficient Scientific Gateways for Bioinformatics in Supercomputer Environments Supported by Artificial Intelligence"
- Luis Marti (Inria Chile), Daniel Romero (Inria) - "Towards a Sustainable Artificial Intelligence"
- Philippe Navaux (UFGRS) - "Advances in I/O access performance for HPC applications"

12h30 - 14h15

Lunch

14h15 - 15h30

Panel on Innovation

Chairs: Patrick Valduriez (Inria) and Frédéric Valentin (LNCC)

- Alvaro Coutinho (UFRJ)
- Laurent Dardenne (LNCC)
- Raimon Alfaro (R&D Geoscience manager, TotalEnergies)
- Augusto Gadelha (CEITEC)

15h30 - 16h

Break

16h - 17h30

Industrial Session

Chair: Alvaro Coutinho (UFRJ)

- Luiz Monnerat (Petrobras)
- Raimon Alfaro (R&D Geoscience manager, TotalEnergies)
- Gustavo Braz (Orange)
- Guilherme Alves and Thais Ferreira (Serratec)
- Leonardo Fialho (ATOS Research & Development)

19h30

Conference Dinner

Friday 14, April 2023

9h30 - 10h30

Keynote 3

Marta Mattoso (UFRJ) - "Traceability in Scientific Machine Learning"

10h30 - 12h

Session 4 - Data Science

- Frédéric Precioso (Inria) - "Many ways of combining Symbolic and Non-symbolic AI"
- Fabio Porto (LNCC) - "Gypscie: Managing artifacts in support for ML models life-cycle"
- Lucas Mello Schnorr (UFGRS) - "ReDaS – Analysis Techniques and Workflow Methodologies for Reproducible Data Science"
- Tadeu Gomes (LNCC) - "Human Mobility: From Graph-based Analysis to Physics-based Prediction"

12h - 12h30

Closing

12h30

Lunch

15h

Visit to the Imperial Museum

Promotion

Scientific Directors Inria Brasil: Frédéric Valentin (LNCC), Patrick Valduriez (Inria)

Scientific Committee: Fabio Porto (LNCC), Antônio Tadeu Gomes (LNCC), Alvaro Coutinho (COPPE-UFRJ)

Support

Simone Elias (LNCC), Anmily Martins (LNCC), Grazielle Soares (LNCC), Tathiana Tapajóz (LNCC)