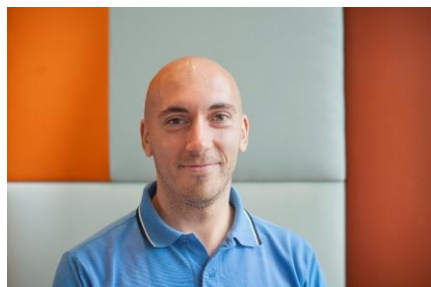




**SPOC20: "Autumn school on Advanced BCP Tools:
VRPSolver and Coluna"
Paris, Nov 21-22 2019**



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- **Organizing committee:**

- Pierre Fouilhoux (LIP6 Sorbonne Université)
- Fabio Furini (LAMSADE, University Paris-Dauphine)
- Ivana Ljubic (ESSEC, Paris)
- A. Ridha Mahjoub (LAMSADE, University Paris-Dauphine)
- Eduardo Uchoa (Universidade Federal Fluminense)
- Sonia Vanier (Université de Paris1 Panthéon-Sorbonne)

- **More than 100 participants (Austria, Algeria, Belgium, France, Italy, Nigeria, Norway, Spain, Turkey, UK)**

- **THURSDAY MORNING (9.00am – 12.30pm):**

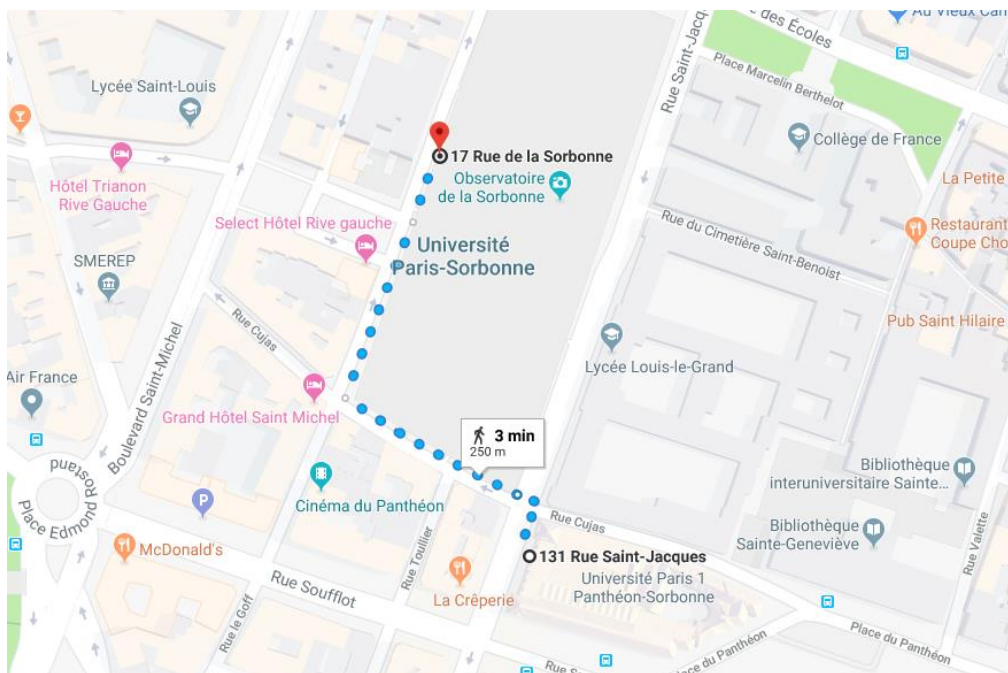
- **Eduardo Uchoa:** VRPSolver
- **Teobaldo Bulhões:** Rank-1 Facets of the Set Partitioning Polyhedron
- 10.40am - 11.00am: **coffee break**
- **Roberto Roberti:** Multi-trip VRP with Time Windows
- **Michael Poss:** Robust Capacitated VRP

- **LUNCH BREAK (12.30pm – 2pm)**

- **THURSDAY AFTERNOON (2pm – 6pm):**
 - **Teobaldo Bulhões, Guillaume Marques, Artur Pessoa, Ruslan Sadykov:**
Hands-on tutorial for the VRPSolver
 - 4.40pm – 5pm: **coffee break**
 - **François Vanderbeck:** Coluna.jl project: a collaborative framework for general BCP
- **RECEPTION (6pm – 8pm):** [Decanal Apartment](#)

- **Thursday Reception (6pm – 8pm):**

- [Decanal Apartment](#)



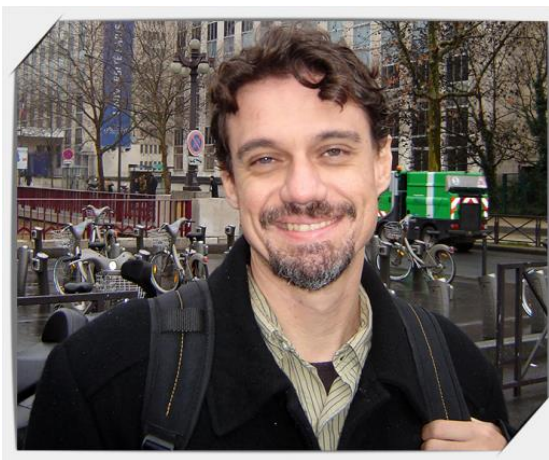
- **FRIDAY MORNING (9.00am – 12.30pm):**
 - **Ruslan Sadykov:** Bucket Graph Based Labeling Algorithms for VRP Pricing
 - **Artur Pessoa:** Solving Bin Packing/ Vector Packing problems as VRPs
 - 10.30am - 10.50am: **coffee break**
 - **Guillaume Marques:** Two-echelon VRP
 - **Marcus Poggi:** VRP with Stochastic Demand
 - **Fabio Furini:** Column generation for graph coloring problems
- **LUNCH BREAK (12.30pm – 2pm)**

- **FRIDAY AFTERNOON (2pm – 6pm): (Salle 1!)**
 - **Teobaldo Bulhões, Guillaume Marques, Artur Pessoa, Ruslan Sadykov:**
Hands-on tutorial for the VRPSolver
 - 4.40pm – 5pm: **coffee break**
 - **Claudia Archetti:** Emerging problems and challenges in routing

Eduardo Uchoa, Universidade Federal Fluminense, Brazil

VRPSolver:

**A generic exact solver for Vehicle
Routing and related problems**



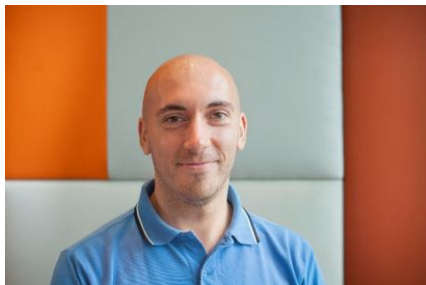
Teobaldo Bulhões, Universidade Federal da Paraíba, Brazil

Rank 1 Facets of the Set Partitioning Polyhedron as Limited Memory Cuts



Roberto Roberti, Vrije Universiteit Amsterdam, Netherlands

An Exact Solution Framework for Multi-Trip Vehicle Routing Problems with Time Windows



Michael Poss, CNRS Montpellier, France

Robust Capacitated Vehicle Routing

