Carlo Sulzbach Sartori

Junior researcher

August 2nd, 1994

Brazilian

https://cssartori.github.io

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Languages

- Portuguese ●●●●
- English (iBT:113, 2018) ●●●●
- French ●●○○
- Dutch ●○○○

Skills

Programming languages:

1. C, C++ ●●●●
2. Java, Python ●●●○
3. R ●●○○
4. Javascript ●○○○

Computer environments:

- Linux (Ubuntu), Bash/shell, Emacs, CMake, Git, LaTeX

Optimization:

- Gurobi, CPLEX, GLPK, irace
- Metaheuristics, Integer Programming, Branch and bound, Dynamic Programming, Greedy Algorithms, Constraint Satisfaction

Achievements

- Best paper award at ALGO/ATMOS 21
- Best M.Sc. thesis on Operations Research in Brazil (SBPO, 2020)
- Nominated for best B.Sc. project on Operations Research in Brazil (5 finalists at SBPO, 2017)

Working Experience

2019 – now **Junior researcher** KU Leuven, Belgium
Working at the Combinatorial Optimisation and Decision Support (CODeS) group at KU Leuven. Research focus includes vehicle routing, driver scheduling and workload balancing with complex side constraints.

2019 – 2019 **Operations research consultant** uMov.me Tecnologia, Brazil
Developed a vehicle routing package for uMov.me and provided assistance to embed the tool within their software platform.

2018 – 2019 **Temporary lecturer** UFRGS, Brazil
I taught algorithms and C programming courses for engineering students. My classes were well rated by the students, achieving averages of 4.8 (2018) and 4.9 (2019) out of 5.

2017 – 2019 **Junior researcher** UFRGS, Brazil
Worked at the Algorithms and Optimization group at UFRGS. My focus was on developing efficient metaheuristics for vehicle routing problems with time windows and other constraints.

2014 – 2016 **Research and teaching assistant** UFRGS, Brazil
As an undergraduate student, I assisted postgraduate researchers in developing efficient (meta)heuristic algorithms for optimization problems including nurse rostering and vehicle routing. Additionally, I assisted professors during weekly laboratory classes for both Combinatorial Optimization and Data Structure courses.

Education

2019 – now **Ph.D. in Engineering Technology** KU Leuven, Belgium
Topic: Vehicle Routing and Driver Scheduling
Supervisors: Prof. Dr. Greet Vanden Berghe and Dr. Pieter Smet
Publications: One journal paper (international); two conference papers (international).

2017 – 2019 **M.Sc. in Computer Science** UFRGS, Brazil
Title: The pickup and delivery problem with time windows: algorithms, instances, and solutions
Supervisor: Prof. Dr. Luciana S. Buriol
Publications: Two journal papers (international and national); one conference paper (international).

2012 – 2016 **B.Sc. in Computer Science** UFRGS, Brazil
Title: Optimizing solutions for the pickup and delivery problem
Supervisors: Prof. Dr. Luciana S. Buriol and Dr. Marcelo W. Friske
Publication: One conference paper (national).

References

Under request.