






Carlo Sulzbach Sartori

Junior researcher

-  August 2nd, 1994
-  Brazilian
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Languages

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

Skills

Programming languages:

- 1 C, C++
- 2 Java, Python
- 3 R



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 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 **Ph.D. researcher** KU Leuven, Belgium
Working as a junior research staff in 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 **M.Sc. researcher** UFRGS, Brazil
Worked as a junior researcher in 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.