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Citizenship: Brazilian/Swedish

Education and Employment

- Nov/14 – Present- Postdoctoral Researcher – Institute of Mathematics – Academy of Sciences of the Czech Republic
- Oct/14 – Visiting scientist at the National Laboratory for Scientific Computing (LNCC – Brazil)
- Aug/14 – Visiting scientist at Federal University of Rio de Janeiro (UFRJ - Brazil)
- Jan/14 - Jul/14: Parental Leave.
- May/11 - Dec/13: PhD Candidate at KTH - Royal Institute of Technology, Sweden
- Jul/10 - Oct/10: Visitor at the Laboratoire de Recherche en Informatique (LRI), France.
- 2009 - Nov/10: PhD Candidate at the Foundations of Computing group - Tel Aviv University, Israel.
- 2006 - 2007: MSc in Computer Science. Institut de Recherche en Informatique et Systèmes Aléatoires (IRISA - Rennes , France).
- 2000 - 2005: BSc. in Computer Science. Federal University of Bahia Brazil). From 2002 to 2005 I worked in several research projects financed by the Brazilian Research Agency.

Awards

- 2013 - Excellent Student Paper Award at the 8th International Symposium on Parameterized and Exact Computation (Sofia Antipolis, France)
- 2013 - Partial funding to attend the workshop on Classifying Spaces, Loop Spaces and Finiteness, Copenhagen University, Denmark
- 2006 - 6 months scholarship from the Michel Métivier Foundation (France).
- 2005 - First prize at the SBC2005 Undergraduate Research Contest promoted by the Brazilian Computer Society (SBC).

Technical Skills

- Programming Languages: C, C++, Python
- Programming Paradigms: Object Oriented, Functional, Logic Programming
- Scientific and Technical Software: Maple, Mathematica
- Other Software: Inkscape, Gimp, Blender, QT library

Teaching Experience

- 2012/2013 - Course Responsible - Quantum Computing (Royal Institute of Technology)
- 2011 -Teaching Assistant - Advanced Algorithms (Royal Institute of Technology)
- 2012 - Teaching Assistant - Software Engineering (Royal Institute of Technology)
- 2012 – Teaching Assistant – Introduction to Python (Royal Institute of Technology)
- 2010 - Teaching Assistant - Quantum Computing (Tel Aviv University)
- 2009 - Teaching Assistant - Fundamental Ideas in Computer Science (Tel Aviv University)
- 2006 - Teaching Assistant - Graph Theory (Federal University Of Bahia)

Languages

- Fluent in Portuguese, English, French and Swedish.

Doctoral Thesis

- M. de O. Oliveira, Combinatorial Slice Theory, PhD Thesis, KTH Royal Institute of Technology, Stockholm, Sweden, 2013, ISBN 978-91-7501-933-8.

Refereed Publications

1. M. de O. Oliveira – A Slice Theoretic Approach for Embedding Problems on Digraphs. Accepted at the 41st International workshop on Graph-Theoretic Concepts in Computer Science. Munich, Germany, June 2015.
2. M. de O. Oliveira - On the Satisfiability of Quantum Circuits of Small Width. Accepted at the 10th International Computer Science Symposium in Russia, July 2015.
3. M. de O. Oliveira - Reachability in Graph Transformation Systems and Slice Languages. Accepted at the 8th International Conf. on Graph Transformations. L'Aquila, Italy, July 2015.
4. M de O. Oliveira - Subgraphs Satisfying MSO Properties on z-Topologically Orderable Digraphs. In proceedings of the 8th International Symposium on Parameterized and Exact Computation. Sophia Antipolis France. Volume 8246 of Lecture Notes in Computer Science, Pages 123-136, 2013.
5. M. de O. Oliveira - Canonizable Partial Order Generators. In proceedings of the 6th Conference on Language and Automata Theory and Applications. Volume 7183 of Lecture Notes in Computer Science, Pages 445-457, 2012.
6. M. de O. Oliveira - Hasse Diagram Generators and Petri Nets. Fundamenta Informaticae 105:3 pages 263-289. 2010. A preliminary version appeared in the 30th conference on Applications and Theory of Petri Nets, volume 5606 of Lecture Notes in Computer Science, pages 183203. Springer, 2009.
7. M. de O. Oliveira, F. Greve - A New Refinement Procedure for Graph Isomorphism Algorithms. In proceedings of the 2nd Brazilian Symposium on Graphs Algorithms and Combinatorics (GRACO), Electronic Notes in Discrete Mathematics, v. 19 p. 373-379, 2005.

Notes and Papers in Submission Process

1. M. de O. Oliveira - An Algorithmic Metatheorem for Directed Treewidth. Available at <http://arxiv.org/abs/1410.0589>.
2. M. de O. Oliveira - Automated Verification, Synthesis and Correction of Concurrent Systems via MSO Logic. Available at <http://arxiv.org/abs/1402.2698>.
3. M de O. Oliveira - The Parameterized Complexity of Equational Logic.
4. M de O. Oliveira - Canonizable Partial Order Generators and Regular Slice Languages. Available at <http://arxiv.org/abs/1009.5341>.
5. M. de O. Oliveira - Embezzlement States are Universal for Non-Local Strategies. Available at <http://arxiv.org/abs/1009.0771v1>.