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(27 year old)
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Guillaume Perez

Education

- 2017 –** **Postdoctoral position - Artificial Intelligence.**
[CORNELL UNIVERSITY](#), USA.
- 2014 – 2017** **PhD in computer science - Constraint Programming.**
[UNIVERSITY NICE SOPHIA ANTIPOLIS](#), France.
Development and implementation of efficient algorithms for compression using Multivalued Decision Diagrams (MDDs) with application in constraint programming, text and music generation, and statistical constraints.
- 2012 – 2014** **Master degree in computer science.**
[UNIVERSITY NICE SOPHIA ANTIPOLIS](#), France.
Promotion leader.

Experiences

- 2013-2017**
(4 years) **Teaching.**
[UNIVERSITY NICE SOPHIA ANTIPOLIS](#), Sophia-Antipolis, France.
During 4 years, I taught C++ advanced programming, Problem solving, Web Server, R and HTML-CSS. Moreover, I taught Python and JEE in several companies.
- 2012-2014**
(2+3+6 months) **Three Constraint programming internships.**
[I3S LABORATORY](#), Sophia-Antipolis, France.
Design and implementation of MDD and Table algorithms for constraint solvers. State of the art for MDDs in many CP solvers - Published in CP14.

Research

- 2018** **Parallel Algorithms for Operations on Multi-valued Decision Diagrams.**
GUILLAUME PEREZ AND JEAN-CHARLES RÉGIN.
Thirty-second AAAI Conference on artificial intelligence, AAAI, February. 2018, New Orleans, USA.
- 2017** **MDDs : Sampling and Probability Constraints.**
GUILLAUME PEREZ AND JEAN-CHARLES RÉGIN.
Constraint Programming (CP). 2017, Melbourne, Australia.
- Soft and Cost MDD Propagators.**
GUILLAUME PEREZ AND JEAN-CHARLES RÉGIN.
Thirty-first AAAI Conference on artificial intelligence, AAAI, February. 2017, San Francisco, USA.

MDDs are Efficient Modeling Tools : An Application to some Statistical Constraints.

GUILLAUME PEREZ AND JEAN-CHARLES RÉGIN.

International Conference on AI and OR Techniques in Constraint Programming (CPAIOR). 2017, Padova, Italia.

2016

Enforcing Structure on Temporal Sequences : The Allen Constraint.

P ROY, G PEREZ, JC RÉGIN, A PAPADOPOULOS, F PACHET, M MARCHINI.

Constraint Programming (CP), September. 2016, Toulouse, France.

Constructions and In-Place Operations for MDDs Based Constraints.

GUILLAUME PEREZ AND JEAN-CHARLES RÉGIN.

International Conference on AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, CPAIOR, June. 2016, Banff, Canada.

Compact-Table : Efficiently Filtering Table Constraints with Reversible Sparse Bit-Sets.

J. DEMEULENAERE, R. HARTERT, C. LECOUTRE, G. PEREZ, L. PERRON, J-C. RÉGIN, P. SCHAUS.

Constraint Programming (CP), September. 2016, Toulouse, France.

2015

Efficient operations on MDDs for building constraint programming models.

GUILLAUME PEREZ AND JEAN-CHARLES RÉGIN.

International Joint Conference on Artificial Intelligence, IJCAI. 2015, Buenos aires, Argentina.

2014

Improving GAC-4 for Table and MDD based constraints.

GUILLAUME PEREZ AND JEAN-CHARLES RÉGIN.

Constraint Programming (CP), Sept. 2014, Lyon, France.

Computer science projects

- *C++ - Java* Constraint implementation in the CP solver [OR-TOOLS](#) - In the CP solver
- *Scala* [CHOCO](#) - In the CP solver [OscaR](#)
- *Python* Implementation of the Multi-Armed Bandit for algorithm selection on [GitHub](#)
- *C++* [LibGraph](#) : A game engine including graphics and controls for my C++ students
- *C++* [TicTacToe](#) : A game using LibGraph for my AI students.
- *Racket* [GeoMeter](#) A constrained geometry software
- *Java EE* Dynamic graphic user interface for the YOURCAST project

More

- Language :* Advanced English. native French. middle Spanish
- Sports :* Football - Tennis
- Links :* [github](#) - [DBLP](#) - [Google Scholar](#) - [My researches](#)