Gaël Glorian

POSTDOCTORAL RESEARCHER

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Education

Ph.D in Artificial Intelligence (public defence Dec. 11th, 2019)   *Lens, FRANCE*

CRIL · Centre de Recherche en Informatique de Lens · Faculté Jean Perrin   *2016 - 2019*

- Title : Hybridization of clauses learning techniques in constraint programming
- Keywords : constraint programming, SAT, clauses, nogoods, hybridization

Master's degree in computer science   *Lens, FRANCE*

Faculté Jean Perrin   *2014 - 2016*

Bachelor's degree in computer science   *Lens, FRANCE*

Faculté Jean Perrin   *2009 - 2014*

Scientific Baccalaureate   *Hénin-Beaumont, FRANCE*

Lycée Louis Pasteur   *2006 - 2009*

Experiences

AI consultant   *Bordeaux, FRANCE*

Ubisoft Bordeaux   *April 2020 - present*

Postdoctoral position   *Talence, FRANCE*

Université de Bordeaux   *February 2020 - present*

Assistant professor   *Lens, FRANCE*

Université d'Artois, Faculté Jean Perrin   *October 2019 - January 2020*

Teaching Assistant   *Lens, FRANCE*

Université d'Artois, Faculté Jean Perrin   *October 2016 - September 2019*

Internship · Communication between agents in constraint programming   *Lens, FRANCE*

Centre de recherche en informatique de Lens · CRIL   *March 2016 - June 2016*

Internship · Implementation of new functionalities on the rclCSP platform   *Lens, FRANCE*

Centre de recherche en informatique de Lens · CRIL   *April 2015 - June 2015*

Internship   *Lens, FRANCE*

Centre de recherche en informatique de Lens · CRIL   *June 2014 - August 2014*

Publications

NACRE - A Nogood And Clause Reasoning Engine
    Gael Glorian, Jean-Marie Lagniez, Christophe Lecoutre
    LPAR 2020: 23rd International Conference on Logic for Programming, Artificial Intelligence and Reasoning, Alicante, Spain, May 22-27, 2020, 2020

pFactory: A generic library for designing parallel solvers
    Gilles Audemard, Gael Glorian, Jean-Marie Lagniez, Valentin Montmirail, Nicolas Szczepanski
    the 16th International Conference on Applied Computing, AC'19, 2019

NACRE
    Gael Glorian
    Proceedings of the 2018 XCSP3 Competition, 2019

Une approche SAT incrémentale pour raisonner efficacement sur les réseaux de contraintes qualitatives
    Gael Glorian, Jean-Marie Lagniez, Valentin Montmirail, Michael Sioutis
    Quizièmes journées Francophones de Programmation par Contraintes, JFPC 2019, Albi, France, 10 au 13 juin, 2019, Actes, 2019

An Incremental SAT-Based Approach to the Graph Colouring Problem
    Gael Glorian, Jean-Marie Lagniez, Valentin Montmirail, Nicolas Szczepanski
    Principles and Practice of Constraint Programming - 25th International Conference, CP 2019, Stamford, CT, USA, September 30 - October 4, 2019, Proceedings, 2019

An Incremental SAT-Based Approach to Reason Efficiently on Qualitative Constraint Networks
    Gael Glorian, Jean-Marie Lagniez, Valentin Montmirail, Michael Sioutis
    Principles and Practice of Constraint Programming - 24th International Conference, CP 2018, Lille, France, August 27-31, 2018, Proceedings, 2018

Combinaison de nogoods extraits au redémarrage
    Gael Glorian, Frédéric Boussemart, Jean-Marie Lagniez, Christophe Lecoutre, Bertrand Mazure
    Treizièmes journées Francophones de Programmation par Contraintes, JFPC 2017, Montreuil-sur-mer, France, 13 au 15 juin, 2017, Actes, 2017

Combining Nogoods in Restart-Based Search
Gael Glorian, Frédéric Boussemart, Jean-Marie Lagniez, Christophe Lecoutre, Bertrand Mazure
Principles and Practice of Constraint Programming - 23rd International Conference, CP 2017, Melbourne, VIC, Australia, August 28 - September 1, 2017, Proceedings,
2017

Invited Talks & Seminars

Dungeon Variations Using Constraint Programming   *Online · Internal*
Ubisoft · La Forge Open House   *Février 2020*

An introduction to Constraint Programming   *Bordeaux, FRANCE*
LABRI · Laboratoire Bordelais de Recherche en Informatique   *July 2020*

Constraint Programming and Real-World Applications   *Bordeaux, FRANCE*
Ubisoft Bordeaux   *April 2020*

SAT/CP Solvers and Hybridization - From MAC to a generic CP clause reasoning engine   *Sophia Antipolis, FRANCE*
I3S · Laboratoire d'Informatique, Signaux et Systèmes de Sophia Antipolis   *July 2019*

Awards

2019   **Gold medal · NACRE solver**, XCSP3 Competition 2019 - Minitrack CSP   *Stamford, CT, USA*
2018   **Gold medal · NACRE solver**, XCSP3 Competition 2018 - Minitrack CSP   *Lille, France*

2016   **Best student paper award · "Combinaison de nogoods extraits au redémarrage"**, JFPC 2017   *Montreuil-sur-mer,*
                                                                                                 France

Teaching Activities

Supervising

Hugo Martin (End-of-studies Internship)   *Bordeaux, FRANCE*
Ubisoft & LaBRI · Laboratoire Bordelais de Recherche en Informatique   *Février 2021 - Août 2021*

Quentin Sauvage (TER)   *Lens, FRANCE*
CRIL · Centre de Recherche en Informatique de Lens   *April 2019 - June 2019*

Ouahab Fenniche (TER)   *Lens, FRANCE*
CRIL · Centre de Recherche en Informatique de Lens   *April 2019 - June 2019*

Teaching

Networks   *Lens, FRANCE*
Master's degree   *Faculté Jean Perrin*

Advanced C Programming   *Lens, FRANCE*
Bachelor's degree   *Faculté Jean Perrin*

Programming & Algorithm 5   *Lens, FRANCE*
Bachelor's degree   *Faculté Jean Perrin*

Programming & Algorithm 4   *Lens, FRANCE*
Bachelor's degree   *Faculté Jean Perrin*

Digital Culture   *Lens, FRANCE*
Bachelor's degree   *Faculté Jean Perrin*

Comitees

Program Committee

Seizièmes journées Francophones de Programmation par Contraintes · JFPC'21   *Nice, FRANCE*
Program Committee member   *2020*

Seizièmes journées Francophones de Programmation par Contraintes · JFPC'20   *Nice, FRANCE*
Program Committee member (Postponed to 2021 · Covid-19)   *2020*

Quinzièmes journées Francophones de Programmation par Contraintes · JFPC'19   *Albi, FRANCE*
Program Committee member   *2019*

Organizing Committee

The 24th International Conference on Principles and Practice of Constraint Programming · CP'18

Lille, FRANCE

Organizing Committee member

2018

Treizièmes journées Francophones de Programmation par Contraintes · JFPC'17

Montreuil-sur-Mer, FRANCE

Organizing Committee member

2017

The 30th International Conference on Industrial, Engineering, Other Applications of Applied Intelligent Systems · IEA/AIE 2017

Arras, FRANCE

Organizing Committee member

2017

Activities

Hcéres · Pre-selected as "young PhD" expert

FRANCE

Registered for a period of 3 years for the evaluation of doctoral schools and doctoral colleges

2020 - 2023

Qualification as a lecturer

FRANCE

In section 27-Computer Science

2020 - 2024

Elected member of the laboratory council

Lens, FRANCE

CRIL · Centre de Recherche en Informatique de Lens

2018 - 2020

Seminar of CRIL PhD student

Le Touquet, FRANCE

Organizing member

2017