Gledel Valentin | Curriculum Vitae

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Current position

I am currently a teaching assistant at University Grenoble Alpes and a member of the team OC at the G-SCOP laboratory. I obtained my PhD on September the 24th of 2009 and its title is *Vertex covering under constraints.*

Education

LIRIS - Université Claude Bernard Lyon 1   **September 2016 – September 2019**
PhD student in theoretical computer science   *Lyon*
Under the supervision of Eric Duchêne and Aline Parreau

École Normale Supérieure de Lyon (ENSL)   **September 2015 – June 2016**
2nd year of Master - Theoretical Computer Science specialisation   *Lyon*

Technische Universität München (TUM)   **April 2015 – August 2015**
Semester of Master in Computer Science   *Munich*
As part of an Erasmus exchange

ENSL   **2013–2015**
1st year of Master - Theoretical Computer Science specialisation   *Lyon*

ENSL   **2012–2013**
3rd year of Bachelor - Theoretical Computer Science specialisation   *Lyon*

Lycée Chateaubriand   **2009–2012**
*Higher School Preparatory Classes: MPSI/MP/MP**   *Rennes*
Admission to the ENS Lyon on competitive exam

Work Experience

Teaching..

Lectures and Exercice sessions   **Scholar year 2019/2020**
Teaching assistant
Supervising the Graph Theory and Complexity course (giving lectures and exercice sessions) and giving exercice sessions for the Operations Research and Langages and Automata courses

Practical and Exercise sessions   **Scholar years 2016/2017 to 2018/2019**
As part of ACE duties
Courses : "Databases and Web programming", "Architecture and systems", "Optimisation and Operational Research", " Algorithmic Imperative programming, Initiation" et "Algorithms and Object Oriented Programming".

Research stays

Stay at Ljubljana   **February 2018 – June 2018**

Strong geodetic number and Maker-Breaker domination game

Research stay at Ljubljana, in the FMF (Faculty of Mathematics and Physics), which led to collaborations on the subjects of the strong geodetic number and Maker-Breaker domination game. I have worked with Sandi Klašar and Vesna Iršič and our researchs led to four publications.

Publications and conferences

Publications in international journals

Maker-Breaker total domination game   **Discrete Applied Mathematics**
with Michael A. Henning, Sandi Klašar and Vesna Iršič   *To appear*
https://arxiv.org/abs/1902.00204
https://hal.archives-ouvertes.fr/hal-02021678

Strong geodetic cores and Cartesian product graphs   **Applied Mathematics and Computation**
with Sandi Klašar and Vesna Iršič   *December 2019*
https://doi.org/10.1016/j.amc.2019.124609

Strong geodetic number of complete bipartite graphs, crown graphs and hypercubes   **BMMS**
with Vesna Iršič   *September 2018*
https://doi.org/10.1007/s40840-019-00833-6

Maker-Breaker domination number   **BMMS**
with Sandi Klašar and Vesna Iršič   *April 2019*
https://doi.org/10.1007/s40840-019-00757-1

Identification of points using disks   **Discrete Mathematics**
with Aline Parreau   *January 2019*
https://doi.org/10.1016/j.disc.2018.10.002

A generalization of Arc-Kayles   **International Journal of Game Theory**
with Antoine Dailly and Marc Heinrich   *October 2018*
https://doi.org/10.1007/s00182-018-0639-5

Papers submitted in international journals

Maker-Breaker domination game   **Submitted**
with Eric Duchêne, Aline Parreau and Gabriel Renault   *September 2018*
https://arxiv.org/abs/1807.09479
https://hal.archives-ouvertes.fr/hal-01848805

Power domination on triangular grids with triangular and hexagonal shape   **Submitted**
with Prosenjit Bose, Claire Pennarun and Sander Verdonschot   *June 2018*
https://hal.archives-ouvertes.fr/hal-01814346

International conferences

Fast winning strategies for the Maker-Breaker domination game   **LAGOS - Belo Horizonte**
avec Sandi Klašar et Vesna Iršič   *June 2019*

Power domination on triangular grids   **ICGT - Lyon**
avec Prosenjit Bose, Claire Pennarun et Sander Verdonschot   *July 2018*

Talks

Résultats de complexité pour le jeu d'acquisition   **JGA - Bruxelles**
with Guillaume Bagan, Marc Heinrich and Fionn Mc Inerney   *November 2019*

Maker-Breaker Domination Number   **CGTC - Lisbonne**
with Sandi Klašar and Vesna Iršič   *January 2019*

Strong geodetic number and cartesian product   **JGA - Grenoble**
with Sandi Klašar and Vesna Iršič   *November 2018*

Maker-Breaker domination game   **JGA - Bordeaux**
with Eric Duchêne, Aline Parreau, Gabriel Renault and Simon Schmidt   *November 2017*

Weighted Arc-Kayles   **CGTC - Lisbon**
with Antoine Dailly and Marc Heinrich   *January 2017*

Identification of points using disks   **JGA - Paris**
with Aline Parreau   *November 2016*

Miscellaneous

Scientific popularization

MATh.en.JEANS   **2014-2019**
Introduction to research   *with Aline Parreau*
Interventions in schools to propose research subjects adapted to the level of students and to guide them in their researches.

Maths à Modeler   **2015-2017**
Introduction to research
Interventions in classes, at the "Maison des Maths et de l'Informatique de Lyon" (house of mathematics and computer science of Lyon) or during events of the same type as the science festival, to propose small discrete mathematics subjects to students from elementary school to high school.

Talks   **2017**
In the scope of an "Expresso" talk at Lyon 1 and of the french science festival
Talks aiming to explain the concept of algorithms to a public of all ages.

Languages and computer science skills

French: Native speaker

English: Fluent, C1 level

Computer Languages: Ocaml, Latex, basics of C, C++, Java and Python