Clément Tamines

PhD Student in Computer Science

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I am a PhD student in the Computer Science department at the University of Mons (UMONS) in Belgium. I am co-supervised by Véronique Bruyère (UMONS) and Jean-François Raskin (Université libre de Bruxelles). My research interests regard equilibria in non zero-sum multiplayer games and solving parity and generalized parity games. I am also very interested in the field of machine learning.

Education

2019 – 2020 **University Certificate**, *Artificial Intelligence*, University of Mons, Belgium.

2018 – 2022 **PhD in Science**, *Computer Science*, University of Mons, Belgium.

2016 – 2018 **Master of Science**, *Computer Science*, University of Mons, Belgium.
Graduated *Summa Cum Laude*.

2013 – 2016 **Bachelor of Science**, *Computer Science*, University of Mons, Belgium.
Graduated *Cum Laude*.

Research experience

2018 – 2022 **PhD thesis**
Title *Equilibria in multiplayer games with multiple objectives.*
Directors Véronique Bruyère & Jean-François Raskin

2017 – 2018 **Master's thesis**
Title *Solving generalized parity games.*
Director Véronique Bruyère

2016 – 2017 **Master's project**
Title *Solving parity games.*
Directors Véronique Bruyère & Quentin Hautem

Teaching

2018 – 2020 **Teaching assistant**, *UMONS*.
- Algorithmics and Bioinformatics (30h).

2019 **Co-supervisor**, *UMONS*.
- Introduction to research internship of Victor Dheur on symbolic solving of parity games.

2018 – 2019 **Co-supervisor**, *UMONS*.
- Master's project of Dorian Labeeuw on window techniques for solving parity games.

2016 – 2018 **Student teaching assistant**, *UMONS*.
- Programming and algorithmics I (Python 3).
- Programming and algorithmics II (Java 8).

Publications

[BPRT19a] Véronique Bruyère, Guillermo A. Pérez, Jean-François Raskin, and Clément Tamines. Partial solvers for generalized parity games. In *Reachability Problems - 13th International Conference, RP 2019, Brussels, Belgium, September 11-13, 2019, Proceedings*, pages 63–78, 2019.

[BPRT19b] Véronique Bruyère, Guillermo A. Pérez, Jean-François Raskin, and Clément Tamines. Partial solvers for generalized parity games. *CoRR*, abs/1907.06913, 2019.

Talks

2019 **Partial Solvers for Generalized Parity Games**, Highlights'19, 18/09, Warsaw, Poland.
Partial Solvers for Generalized Parity Games, RP'19, 11/09, Brussels, Belgium.
Partial Solvers for Generalized Parity Games, MoRe'19, 22/06, Vancouver, Canada.
Your Turn to Play!, Math & Science Days'19, 29/03, Mons, Belgium.

Attended research events

2020 **Dynamics and Information Workshop**, Tel Aviv, Israel.
2019 **Highlights of Logic, Games and Automata**, Warsaw, Poland.
13th International Conference on Reachability Problems, Brussels, Belgium.
LearnAut: Learning and Automata (LICS'19 workshop), Vancouver, Canada.
MoRe: Multi-objective Reasoning in Verification and Synthesis , Vancouver, Canada.
Theory and Algorithms in Graph and Stochastic Games, co-organizer, Mons, Belgium.
MdC: Mardi des Chercheurs (UMONS research event), Mons, Belgium.
CFV Seminar, Brussels, Belgium.
MFV Seminar, Brussels, Belgium.
2018 **Highlights of Logic, Games and Automata**, Berlin, Germany.
Logic and learning, FoPSS summer school, Oxford, UK.
Modelling and Verification of Parallel Processes, MOVEP summer school, Cachan, France.