Edon Kelmendi

Birth place: Prishtinë, Kosovë
Birth date: 20 May 1989
Nationality: Kosovar
Email: edon.kelmendi@gmail.com
Website: http://edon.github.com/
Phone: +33 (0) 618160966

Interests

My interests include Logic, Automata, Games, and Dynamical Systems.

Appointments Held

Dec 2019 –　　⋯　　**University of Oxford**
Post-Doc (Research Associate) in the Verification Team.
Advised by: Joël Ouaknine and James Worrell

Feb 2018 – Dec 2019　**University of Warsaw**
Post-Doc (Adiunkt Naukowy) in the Automata Team.
Advised by: Mikołaj Bojaćzyk

Jan 2017 – Jan 2018　**Technical University of Munich**
Post-doc in the Chair for Foundations of Software Reliability and Theoretical Computer Science
Advised by: Anca Muscholl and Jan Křetínský

Education

2013 – 2016　**Doctorate, LaBRI, Université de Bordeaux**
Thesis title: *Optimal Control Under Partial Observation*
Advisors: Hugo Gimbert and François Dufour

2011 – 2013　**Master, Université de Bordeaux** (Formal Methods and Software Verification)
Thesis title: *Value 1 Problem for Probabilistic Automata.*
Advisor: Hugo Gimbert
Mention: Très Bien

2007 – 2010　**BEng, Universiteti i Prishtinës**
Faculty of Electrical and Computer Engineering

Publications

arXiv links are clickable

Conference Proceedings

1. Almagor, Shaull, Toghrul Karimov, Edon Kelmendi, Joël Ouaknine, and James Worrell. "Deciding ω-Regular Properties on Linear Recurrence Sequences". In: *In 48th ACM SIGPLAN Symposium on Principles of Programming Languages (POPL 2021), January 17–22, 2021*. 2021. arXiv: 2010.14432.

2. Almagor, Shaull, Edon Kelmendi, Joël Ouaknine, and James Worrell. "Invariants for Continuous Linear Dynamical Systems". In: *47th International Colloquium on Automata, Languages, and Programming, ICALP 2020, July 8-11, 2020, Saarbrücken, Germany (Virtual Conference)*. 2020, 107:1–107:15. arXiv: 2004.11661.

3 Bojańczyk, Mikołaj, Edon Kelmendi, Rafał Stefański, and Georg Zetzsche. "Extensions of ω-Regular Languages". In: *LICS '20: 35th Annual ACM/IEEE Symposium on Logic in Computer Science, Saarbrücken, Germany, July 8-11, 2020.* 2020, pp. 266–272. arXiv: `2002.09393`.

4 Bojańczyk, Mikołaj, Edon Kelmendi, and Michał Skrzypczak. "MSO+∇ is undecidable". In: *34th Annual ACM/IEEE Symposium on Logic in Computer Science, LICS 2019, Vancouver, BC, Canada, June 24-27, 2019.* 2019, pp. 1–13. arXiv: `1901.06900`.

5 Kelmendi, Edon, Julia Krämer, Jan Kretínský, and Maximilian Weininger. "Value Iteration for Simple Stochastic Games: Stopping Criterion and Learning Algorithm". In: *Computer Aided Verification - 30th International Conference, CAV 2018, Held as Part of the Federated Logic Conference, FloC 2018, Oxford, UK, July 14-17, 2018, Proceedings, Part I.* 2018, pp. 623–642. arXiv: `1804.04901`.

6 Bojańczyk, Mikołaj, Hugo Gimbert, and Edon Kelmendi. "Emptiness of Zero Automata Is Decidable". In: *44th International Colloquium on Automata, Languages, and Programming, ICALP 2017, July 10-14, 2017, Warsaw, Poland.* 2017, 106:1–106:13. arXiv: `1702.06858`.

7 Fijalkow, Nathanaël, Hugo Gimbert, Edon Kelmendi, and Denis Kuperberg. "Stamina: Stabilisation Monoids in Automata Theory". In: *Implementation and Application of Automata - 22nd International Conference, CIAA 2017, Marne-la-Vallée, France, June 27-30, 2017, Proceedings.* 2017, pp. 101–112. 🔗 URL: `https://edon.github.io/files/stamina.pdf`.

8 Kelmendi, Edon and Hugo Gimbert. "Deciding Maxmin Reachability in Half-Blind Stochastic Games". In: *Algorithmic Game Theory - 9th International Symposium, SAGT 2016, Liverpool, UK, September 19-21, 2016. Proceedings.* 2016, pp. 52–63. arXiv: `1605.07753`.

Journal Articles

1 Fijalkow, Nathanaël, Hugo Gimbert, Edon Kelmendi, and Youssouf Oualhadj. "Deciding the value 1 problem for probabilistic leaktight automata". In: *Logical Methods in Computer Science* 11.2 (2015). arXiv: `1504.04136`.

Preprints

1 Gimbert, Hugo and Edon Kelmendi. *Two-Player Perfect-Information Shift-Invariant Submixing Stochastic Games Are Half-Positional.* 2014. arXiv: `1401.6575` [cs.GT].

Teaching

Michaelmas 2020	🔖 **Probabilistic Model Checking** (University of Oxford) *Tutorials (partially online) to master students.*
Winter 2016/2017	🔖 **Logique et Preuve** (Université de Bordeaux) *Tutorials and lectures on an introduction to formal logics and coq for third year students.*
	🔖 **Coloration Informatique** (Université de Bordeaux) *Tutorials on writing a 2D game in python for first year students.*
Winter 2015/2016	🔖 **Informatique Théorique 1** (Université de Bordeaux) *Tutorials and lectures on basic mathematical tools that are useful in computer science for second year students.*
	🔖 **Algorithmes et Programmes** (Université de Bordeaux) *Tutorials on implementing algorithms in C for second year students.*

Community service

Reviewed papers for: LICS, ICALP, STACS, MFCS, CSL, FSCD, CONCUR,
Acta Informatica, Transactions on Computational Logic.

Languages

Albanian   Native
English   Fluent
French   Advanced