

František Blahoudek



Curriculum Vitae

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| PERSONAL DATA AND CONTACT INFORMATION | <i>Date of Birth:</i> August 30, 1986 <i>Phone:</i> +420 602 610 417 <i>E-mail:</i> frantisek.blahoudek@gmail.com <i>web page:</i> https://fi.muni.cz/~xblahoud | Botanická 68a, room C415 602 00 Brno Czech Republic |
| ACADEMIC POSITIONS | Faculty of Informatics, Masaryk University, Brno, Czech Republic: Research and development worker | Sep. 2014 – Sep. 2017 |
| EDUCATION | Faculty of Informatics, Masaryk University, Brno, Czech Republic: Doctoral Degree (Ph.D.) in Computer Science • <i>Thesis:</i> Automata for Formal Methods: Little Steps Towards Perfection • <i>Advisors:</i> Jan Strejček (since 2013) and Mojmír Křetínský (until 2013) • <i>Reviewers:</i> Orna Kupferman and Christel Baier Doctoral Degree (RNDr.) in Computer Science • <i>Thesis:</i> LTL and ω -automata Master Degree (Mgr.) in Computer Science • <i>Master thesis:</i> Translation of an LTL fragment to deterministic Rabin and Streett automata Bachelor Degree (Bc.) in Applied Computer Science • <i>Bachelor thesis:</i> Tools for Automated Heap Analysis (in Czech) | 2012 – June 2018 2015 2012 2009 |
| RESEARCH INTERESTS | Formal Verification: <ul style="list-style-type: none">• translations of LTL into automata• ω-automata, games• model checking, probabilistic model checking• program analysis (static analysis, shape analysis) | |
| PROJECTS AND TOOLS | LTL and ω-Automata LTL3DRA: Translation of LTL\GUX into deterministic automata HOAF: Format for exchanging ω -automata LTL3TELA: Translation of LTL to transition-based Emerson-Lei automata Seminators: Semi-determinization of generalized Büchi automata | |
| INVITED TALKS | IST Austria <i>Title:</i> Advances in ω -Automata for Formal Methods TU Munich <i>Title:</i> Complementations of Semi-Deterministic Automata UL Brussels <i>Title:</i> Advances in ω -Automata for Formal Methods LaBRI Bordeaux <i>Title:</i> Semi-Deterministic Büchi Automata: How to Obtain and Complement Them | June 2017 May 2018 June 2018 June 2018 |

