**BIOGRAPHICAL SKETCH – Florian Zuleger**

PERSONAL INFORMATION

Name: Florian Zuleger

Researcher unique ID(s) ORCID: 0000-0003-1468-8398

Webpage: http://forsyte.at/people/zuleger

HIGHER EDUCATION

2017 Habilitation, TU Wien, Austria

2011 PhD Computer Science, Supervisor: Helmut Veith, TU Wien, Austria

2008 Diploma Mathematics, TU Munich, Germany

APPOINTMENTS/ POSITIONS

2017 – present Associate Professor at TU Wien

2013 – 2017 Assistant Professor at TU Wien

2011 – 2013 PostDoc at TU Wien

2007 – 2011 University Assistant at TU Munich, TU Darmstadt, TU Wien

FELLOWSHIPS AND AWARDS

2021 Invited talk, Automated termination and complexity analysis, Joint CALCO and MFPS Special Session on Termination Analysis and Synthesis

2021 Bill McCune PhD Award in Automated Reasoning for my PhD student Jens Pagel

2021 Invited to submit to the special issue of ACM Transactions on Programming Languages and Systems (TOPLAS) for selected papers of ESOP 2021

2019 Invited to submit to the special issue of Software Tools for Technology Transfer (STTT) for selected papers of TACAS

2018, 2020 Invited to submit to the special issue of Formal Methods in Systems Design (FMSD) for selected papers of FMCAD

2015 Best paper award for “Verification of Asynchronous Mobile-Robots in Partially-Known Environments” at Principles and Practice of Multi-Agent Systems (PRIMA)

SELECTED MEMBERSHIPS

Since 2020 Founding Member and Chief Financial Officer of the FMCAD Association (formally FMCAD – Verein zur Organisation der Konferenz "Formal Methods in Computer-Aided Design")

SELECTED THIRD PARTY FUNDS/ONGOING PROJECTS

2021 – 2026 Doctoral Program LogiCS@TUWien, Horizon 2020, H2020-MSCA-COFUND-2020, vice chair for research and training, 5.333.760€

2015 – 2018 SHiNE: Systematic Methods in Systems Engineering, National Research Network (NFN) - Austrian Science Fund (FWF), Task Leader, 4,2 Mio €

SELECTED COLLABORATION PARTNERS

* Georg Moser, Complexity Analysis of Purely Functional Data Structures, University of Innsbruck, Austria
* Tomas Vojnar, Shape Analysis for Low-level Programming Languages, Brno University of Technology, Czech Republic
* Radu Iosif, Separation Logic with Inductive Definitions, CRNS, VERMIAG, Grenoble, France

PROFESSIONAL AND SCHOLARLY ACTIVITIES

* Journal Referee: AGNT, JAAMAS, JAR, FORM, Information and Computation, SOSYM, CACM, TCS, TOPLAS, JSC, SCICO, STTT, IPL
* Program committee member: MFCS, SAS, APLAS, CAV, STACS, FMCAD
* Review Editor for Frontiers in Computer Science
* Co-Organizer of Dagstuhl Seminar 17921, Resource Bound Analysis, July 2017

PUBLICATION SUMMARY

53 peer reviewed publications/proceedings (6 journal papers, 43 conference papers, 2 workshop papers, 2 invited papers), cited 1398 times, h-index 19 (as of 04.2022, google scholar), 1 patent

TOP 10 SELECTED PEER-REVIEWED PUBLICATIONS (\*most relevant to proposal)

1. Jens Pagel, Florian Zuleger: Strong-Separation Logic. ESOP 2021: 664-692

2. Florian Zuleger: The Polynomial Complexity of Vector Addition Systems with States. FoSSaCS 2020: 622-641

3. (\*) Matthias Schlaipfer, Friedrich Slivovsky, Georg Weissenbacher, Florian Zuleger: Multi-linear Strategy Extraction for QBF Expansion Proofs via Local Soundness. SAT 2020: 429-446

4. Jens Katelaan, Christoph Matheja and Florian Zuleger: Effective Entailment Checking for Separation Logic with Inductive Definitions. TACAS (2) 2019: 319-336

5. Ivan Radicek, Gilles Barthe, Marco Gaboardi, Deepak Garg, Florian Zuleger: Monadic refinements for relational cost analysis. Proc. ACM Program. Lang. 2(POPL): 36:1-36:32 (2018)

6.Tomás Brázdil, Krishnendu Chatterjee, Antonín Kucera, Petr Novotný, Dominik Velan, Florian Zuleger: Efficient Algorithms for Asymptotic Bounds on Termination Time in VASS. LICS 2018: 185-194

7. Benjamin Aminof, Aniello Murano, Sasha Rubin, Florian Zuleger:

Prompt Alternating-Time Epistemic Logics. KR 2016: 258-267

8. Sasha Rubin, Florian Zuleger, Aniello Murano, Benjamin Aminof: Verification of Asynchronous Mobile-Robots in Partially-Known Environments. PRIMA 2015: 185-200, best paper award

9. Tomer Kotek, Mantas Simkus, Helmut Veith, Florian Zuleger:

Extending ALCQIO with Trees. LICS 2015: 511-522

10. Thomas Colcombet, Laure Daviaud, Florian Zuleger: Size-Change Abstraction and Max-Plus Automata. MFCS (1) 2014: 208-219