Tamás Szabó

PhD Student, Programming Languages Research Group, JGU Mainz

Software Engineer, itemis AG

e-mail: tamas.szabo@itemis.de phone: +49 171 565 4169

web: https://szabta89.github.io

RESEARCH INTERESTS

Programming Languages, Program Analysis, Incremental Computations

EDUCATION PhD student in Computer Science, May 2016 - present

Programming Languages Research Group

JGU Mainz, Germany

Topic: Incrementalization Techniques for Static Program Analyses

Advisors: Sebastian Erdweg and Markus Völter

M.Sc. in Computer Science, February 2011 - February 2013 Budapest University of Technology and Economics, Hungary Thesis: *Transitive Reachability for Efficient Event-Driven*

Model Transformations

Advisors: István Ráth and Gábor Bergmann

SELECT PUBLICATIONS

For a complete list see https://szabta 89.github.io/publications.html.

Incrementalizing Lattice-Based Program Analyses in Datalog

T. Szabó, G. Bergmann, S. Erdweg, and M. Völter

OOPSLA 2018

Incremental Overload Resolution in Object-Oriented Programming Lanquages

T. Szabó, E. Kuci, M. Bijman, M. Mezini, and S. Erdweg

FTfJP 2018

Lessons learned from developing mbeddr: a case study in language engineering with MPS

M. Voelter, B. Kolb, T. Szabó, D. Ratiu, A. van Duersen

SOSYM 2016

Efficient Development of Consistent Projectional Editors using Grammar Cells

M. Voelter, T. Szabó, S. Lisson, B. Kolb, S. Erdweg, T. Berger ${\bf SLE}~{\bf 2016}$

IncA: A DSL for the Definition of Incremental Program Analyses T. Szabó, S. Erdweg, M. Voelter ASE 2016

EMPLOYMENT Software Engineer Stuttgart, Germany

itemis AG March 2013 - present

As a member of the Language Engineering team, I work on customer projects based on domain-specific languages and language workbenches. I am also one of the main contributors of the open-source mbeddr project.

Software Engineer Healthcare Technologies Knowledge Centre Budapest University of Technology and Economics June 2009 - January 2013 Budapest, Hungary

I had various software engineering and research tasks in the domain of biomedical systems, including projects based on intelligent home environments, medical devices, and sensor networks.

SERVICE

I have served on the program committee of the following workshops: MODELS'19 Tools and Demos, MDETools'18, MDETools'17, LWC@SLE'16.

I am also active in peer reviewing: I have reviewed papers for TOPLAS, and I have been a co-reviewer for OOPSLA, GPCE, and ASE papers.

SOFTWARE

IncA: a framework for incremental evaluation of static program analyses - https://github.com/szabta89/IncA

mbeddr: an extensible set of integrated languages for embedded software development - http//www.mbeddr.com

MPS-DF: an extensible framework for variable-precision data-flow analyses - https://szabta89.github.io/projects/df.html

EMF-IncQuery: an efficient incremental query engine for EMF models - https://www.eclipse.org/incquery

REFERENCES

Dr. Sebastian Erdweg, JGU Mainz

Dr. Markus Völter, independent / itemis AG

Dr. István Ráth, Budapest University of Technology and Economics