Tamás Szabó

PhD Student, Software Technology Group, TU Darmstadt

Software Engineer, itemis AG, Stuttgart

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RESEARCH INTERESTS Programming Languages, DSLs, Algorithms, Program Analysis

EDUCATION

PhD student in Computer Science, May 2015 - present

Software Technology Group

Technische Universität Darmstadt, Darmstadt, Germany

Topic: Language support for incremental and parallel computations

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 Trans-

formations

Advisors: István Ráth and Gábor Bergmann

B.Sc. in Computer Science, September 2007 - January 2011 Budapest University of Technology and Economics, Hungary

AWARDS

HUAWEI Innovative Leaders of Tomorrow Scholarship, 2011 Scholarship of the Republic of Hungary, 2011 and 2012 Second prize at the Conference of Students' Scientific Society held by the Faculty of Electrical Engineering and Informatics at BUTE.

CONFERENCE PUBLICATIONS

mbeddr - Extensible Languages For Embedded Software Development

PUBLICATIONS T. Szabó, M. Voelter, B. Kolb, D. Ratiu and B. Schaetz

HILT 2014

Incremental pattern matching for the efficient computation of transitive closure

G. Bergmann, I. Ráth, T. Szabó, P. Torrini and D. Varró

ICGT 2012

Parallel Saturation Based Model Checking

A Vörös, T. Szabó, A. Jámbor, D. Darvas, A. Horváth and T. Bartha

ISPDC 2011

TALKS

mbeddr meets IncQuery - Combining the Best Features of Two Modeling Worlds

T. Szabó and I. Ráth

EclipseCon Europe 2014

Interfaces with Franca - for Web, IoT and Automotive T. Szabó and K. Birken EclipseCon Europe 2014

Xcore meets IncQuery - How the New Generation of DSLs are Made T. Szabó and I. Ráth EclipseCon Europe 2013

EMPLOYMENT Software Engineer Stuttgart, Germany

itemis AG March 2013 - present

As a member of the Language Engineering team I am working 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 Budapest, Hungary June 2009 - January 2013

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

SOFTWARE

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

IncA: providing real-time feedback in IDEs with incremental program analyses - https://szabta89.github.io/projects/inca.html

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

Franca: a powerful framework for the definition and transformation of software interfaces - https://code.google.com/a/eclipselabs.org/p/franca

REFERENCES

Dr. Sebastian Erdweg, Technical University of Darmstadt

Dr. Markus Völter, independent / itemis AG

Dr. István Ráth, Budapest University of Technology and Economics