

Tamás Szabó

PhD Student, Software Engineering Research Group, TU Delft
Software Engineer, itemis AG, Stuttgart
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RESEARCH INTERESTS

Programming Languages, Program Analysis, Incremental Computations

EDUCATION

PhD student in Computer Science, May 2016 - present
Software Engineering Research Group
TU Delft, The Netherlands
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 Transformations*
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, 2010

CONFERENCE PUBLICATIONS

mbeddr - Extensible Languages For Embedded Software Development;
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. Jámboor,
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	<i>itemis AG</i> <i>March 2013 - present</i>
	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 Budapest, Hungary	<i>Healthcare Technologies Knowledge Centre</i> <i>Budapest University of Technology and Economics</i> <i>June 2009 - January 2013</i>
SOFTWARE	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.	
	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, TU Delft Dr. Markus Völter, independent / itemis AG Dr. István Ráth, Budapest University of Technology and Economics	