

Sergey Mechtaev

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Research Interests

Automated program repair, formal methods, programming languages.

Education

Aug 2012–today | Doctor of Philosophy. School of Computing, National University of Singapore.
2006–2011 | Specialist. Mathematics & Mechanics Faculty, Saint Petersburg State University.

Work Experience

May 2010–Jul 2012 | **Developer at Lanit-Tercom, Inc.**
Project for developing hardware description language (HaSCoL). Created OCaml library for eliminating boilerplate code in the compiler implementation. Results were presented at ACM SIGPLAN Workshop on ML'11. <http://oops.math.spbu.ru/syb-ocaml/>
Project for developing computer vision system. Created hardware block for image processing using HaSCoL.

Jun 2009–Apr 2010 | **Developer at OOO Dvin.**
Project for developing video surveillance software. Implemented database (MS SQLServer, LINQ), concurrency, network communication (WCF), web application (Silverlight).

Selected Publications

2016 | Sergey Mechtaev, Jooyong Yi and Abhik Roychoudhury. “Angelix: Scalable Multiline Program Patch Synthesis via Symbolic Analysis”. *International Conference on Software Engineering*.

2015 | Sergey Mechtaev, Jooyong Yi and Abhik Roychoudhury. “DirectFix: Looking for Simple Program Repairs”. *International Conference on Software Engineering*.

Other Experience

External Reviewer: ASE'13, ISSTA'15

2015 | Teaching Assistant for CS4218 Software Testing and Debugging, 2014/2015, Semester2.

2008 | Was in charge of interest group on algorithmic programming at School 419.

2007 | Northeastern European Region Programming Contest (ACM ICPC), honorable mention.

Skills

Languages | English (fluent), Russian (native), Mandarin Chinese (basic).

Programming | Python, Java, C, OCaml.

Other: Perl, Bash, C++, Scala, C#, Scheme, Haskell.

References

Abhik Roychoudhury, Professor
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