

8th International Computer Science Symposium in Russia

**Fourth Workshop “Program Semantics,
Specification and Verification:
Theory and Applications”**

Yekaterinburg, Russia, June 24, 2013

Proceedings

Valery Nepomniaschy, Valery Sokolov (Eds.)

Yaroslavl
2013

УДК 519.68

ББК В185.2я43

C30 Program Semantics, Specification and Verification: Theory and Applications. Proceedings of the IV International Workshop PSSV 2013. Yekaterinburg, Russia, June 24, 2013 / Edited by Valery Nepomnyaschy, Valery Sokolov. — Yaroslavl, Yaroslavl State University, 2013. — 80 pages.

Workshop on Program Semantics, Specification and Verification: Theory and Applications is the leading event in Russia in the field of applying of the formal methods to software analysis. Proceedings of the fourth workshop dedicated to formalisms for program semantics, formal models and verification, programming and specification languages, etc.

ISBN 978–5–8397–0935–5

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Preface

The volume contains the papers selected for presentation at the Fourth International Workshop on Program Semantics, Specification and Verification: Theory and Applications (PSSV 2013) affiliated with the 8th International Symposium “Computer Science in Russia” (CSR 2013). The Workshop took place on June 24, 2013 in Yekaterinburg, Russia.

The First, Second and Third Workshops (PSSV 2010, PSSV 2011 and PSSV 2012) were affiliated with the 5th, 6th and 7th International Symposia “Computer Science in Russia” (CSR 2010, CSR 2011 and CSR 2012) that were successfully held in Kazan, St. Petersburg and Nizhni Novgorod, Russia.

The topics of the Workshop include formal models of programs and systems, methods of formal semantics of programming languages, formal specification languages, methods of deductive program verification, model checking method, static analysis of programs, formal approaches to testing and validation, program testing, analysis and verification tools.

11 papers have been submitted to PSSV 2013. Program Committee accepted 8 papers as regular ones.

We are grateful to Irina Adrianova and Alexei Promsky for considerable efforts in preparing the proceedings.

May 2013

Valery Nepomniaschy
Valery Sokolov

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