

Call for Research and Tool Papers

14th IEEE Working Conference on Source Code Analysis and Manipulation

Co-located with the 27th IEEE International Conference on Software Maintenance and Evolution 28-29 September, 2014 – Victoria, British Columbia, Canada – http://www.ieee-scam.org/2014/

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CONFERENCE AIMS

The aim of this working conference is to bring together researchers and practitioners working on theory, techniques and applications that concern analysis and/or manipulation of the source code of software systems. The term "source code" refers to any fully executable description of a software system, such as machine code, (very) high-level languages and executable graphical representations of systems. The term "analysis" refers to any (semi-)automated procedure that yields insight into source code, while "manipulation" refers to any automated or semi-automated procedure that takes and returns source code.

While much attention in the wider software engineering community is (rightfully!) directed towards other aspects of systems development and evolution, such as specification, design and requirements engineering, it is the source code that contains the only precise description of the behavior of a system. Hence, the analysis and manipulation of source code remains a pressing concern for which SCAM 2014 solicits high quality paper submissions.

COVERED TOPICS AND PAPER FORMATS

We welcome submission of papers that describe original and significant work in the field of source code analysis and manipulation. Topics of interest include, but are not limited to:

- program transformation and refactoring
- static and dynamic analysis
- source level source metrics
- decompilation
- bug location and prediction
- security vulnerability analysis
- source level testing and verification
- concern, concept, and feature mining
- program comprehension
- bad smell detection
- abstract interpretation
- program slicing
- source level optimization
- green source code

SCAM explicitly solicits results from any theoretical or technological domain that can be applied to these and similar topics. Submitted research papers are limited to 10 pages. Papers must be clearly marked as a research paper. All papers submitted should follow the IEEE Computer Society Press Proceedings Author Guidelines. The papers should be submitted electronically via the conference web site (https://www.easychair.org/conferences/?conf=scam2014). Each submission will be reviewed by at least three members of the programme committee, judging the paper on its novelty, quality, evaluation and scientific rigor. Note that submitted papers should not have been published before, and should not have been submitted elsewhere in parallel to SCAM 2014.

SCAM 2014 will also feature a tool paper track for papers that report on the design and implementation of tools for source code analysis and manipulation. Tool papers are limited to 6 pages and are reviewed by a different program committee.

PROCEEDINGS

All accepted papers will appear in the proceedings which will be published by the IEEE Computer Society Press. Best papers from SCAM 2014 will be considered for revision, extension, and publication in a special issue of **Journal of Systems and Software** edited by Elsevier.

IMPORTANT DATES

Abstract Deadline Paper Deadline Notification 23 June 2014 27 June 2014 1 August 2014