SOAP 2018
7th International Workshop on the State of the Art in Program Analysis


* Description
Static and dynamic analysis techniques and tools for Java and other programming languages have received widespread attention for a long time. The application domains of these analyses range from core libraries to modern technologies such as web services and Android applications. Over time, analysis frameworks, such as Soot, WALA, Chord, DOOP, Soufflé, and OPAL, have been developed to better support techniques for optimizing programs, ensuring code quality, and assessing security and compliance.

The Soot community brought together its members and other researchers by organizing the International Workshop on the State Of the Art in Java Program Analysis (SOAP). The presentations and discussions have helped share new developments and shape new innovations in program analysis. SOAP 2018 will enhance that positive experience with a broadened scope to also emphasize analysis tools other than Soot and programming languages other than Java.

We invite contributions and inspirations from researchers and practitioners working with program analysis. We are particularly interested in exciting analysis framework ideas, innovative designs, and analysis techniques, including preliminary results of work in progress. We will also focus on the state of the practice for program analysis by encouraging submissions by industrial participants. We want to see your tools -- tool demonstration submissions are encouraged. The workshop agenda will continue its tradition of lively discussions on extensions of existing frameworks, development of new analyses and tools, and how program analysis is used in real-world scenarios.

Format
The workshop will take one day and will feature invited talks by leading members of the program analysis community, presentations of all accepted refereed papers, and time for open discussion.

* Submissions
Submissions should be four- to six-page papers and should be formatted according to the two-column ACM proceedings format. Each reference must list all authors of the paper. The citations should be in numerical style, e.g., [52]. Templates for ACM format are available for Microsoft Word and LaTeX at http://www.sigplan.org/Resources/Author. The submission should be formatted using the SIGPLAN Proceedings Package
Possible submissions include, but are not limited to:
- Report on a novel implementation of a program analysis, with focus on practical details or optimization techniques for obtaining precision and performance.
- New research tool, data, and/or other artifacts that showcase early implementations of novel program analysis concepts, as well as mature prototypes.
- Description of a new analysis component, for example front-ends or abstract domains.
- Report describing an innovative tool built on top of an existing framework.
- Compelling use case for a feature that is not yet supported by existing analysis tools, with good examples and an informal design of the proposed feature.
- Idea paper proposing the integration of existing program analyses to answer interesting novel questions about programs, for example in IDEs.
- Experience report on the use of a program analysis framework.
- Description of a program analysis tool and screenshots of main parts of the demo.

* Publication
Accepted papers will appear in the ACM Digital Library.

* Invited Speakers
- Eric Bodden, Fraunhofer IEM and Paderborn University
- Jens Palsberg, UCLA
- Michael Pradel, TU Darmstadt

* Important Dates (23:59 AoE)
- Paper submissions: April 23, 2018
- Reviews by May 26, 2018
- Notification of authors: May 31, 2018
- Submission of camera-ready copies: June 6, 2018 (tentative)
- Workshop date: July 20, 2018

* Organizers
- Ben Hermann, Paderborn University
- Omer Tripp, Google Inc

* Program Committee
- Patrick Cousot, New York University, USA
- Michael Eichberg, TU Darmstadt, Germany
- Pietro Ferrara, JuliaSoft, Italy
- Ben Hardekopf, UC Santa Barbara, USA
- Roman Manevich, Ben-Gurion University, Israel
- Noam Rinetzky, Tel Aviv University, Israel