19th International Workshop on Foundations of Object-Oriented Languages (FOOL'12)

Workshop Summary

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Abstract

The search for sound principles for object-oriented languages has given rise to considerable research during the last few decades, leading to a better understanding of the key concepts of object-oriented languages and to important developments in type theory, semantics, program verification, and program development. The purpose of this workshop is to provide a forum for discussing new ideas in the foundations of object-oriented languages and provide feedback to authors. Submissions to this workshop were invited in the general area of foundations of object-oriented languages, object-oriented languages, including integration with other paradigms and extensions, such as aspects, components, and meta-programming.

Categories and Subject Descriptors D.3.1 [*Programming Languages*]: Formal Definitions and Theory

General Terms Languages, Security, Theory, Verification

Keywords foundations, object-orientation, programming languages, type theory, semantics, analysis, verification, concurrency, distributed systems, databases, security

1. Main Theme and Goals

The theme of the workshop is the general area of foundations of object-oriented languages, including integration with other paradigms and extensions, such as aspects, components, meta-programming. Topics of interest include language semantics, type systems, program analysis and verification, formal calculi, concurrent and distributed languages, databases, software adaptation, and language-based security issues. Papers are welcome to include formal descriptions and proofs, but these are not required; the key consideration is that papers should present novel and valuable ideas relating to foundations for object-oriented languages. The main focus in selecting workshop contributions will be the intrinsic interest and timeliness of the work, so authors are encouraged to submit polished descriptions of work in progress as well as papers describing completed projects. In addition to the sharing of research ideas, another goal of the workshop is to provide feedback to the authors, helping them prepare their papers for submission to top-tier conferences.

2. Papers and Activities

FOOL is a 1-day workshop that includes presentations of accepted papers as well as invited speakers and other technical sessions.

FOOL does not have formal proceedings, to enable authors to present preliminary work that they wish to later publish formally in a conference venue. Papers are peer-reviewed by the program committee above, however, and are posted online at the FOOL workshop site as an informal record of the workshop. Many past FOOL papers have had significant influence on object-oriented programming language research and revised versions appear in prominent conferences and journals. The home page of FOOL is at

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http://www.cs.cmu.edu/~aldrich/FOOL/,
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and the web page for FOOL'12 will be avialable soon.

3. Location at SPLASH/OOPSLA

After many editions held in conjunction with POPL, the steering committee felt that the the object-oriented research community that is centered on OOPSLA and SPLASH would also provide a strong positive research community. Furthermore, FOOL fills a need for a foundational language workshop at SPLASH. Hence, this year we look forward to a FOOL hosted at SPLASH and continuing to improve the synergies between these communities.

4. Organization

FOOL is guided by a steering committee as follows:

- Jonathan Aldrich (Carnegie Mellon University)
- Viviana Bono (Universitá di Torino)
- Atsushi Igarashi (Kyoto University)
- James Noble (University of Wellington)
- Jeremy Siek (Chair, University of Colorado)
- Elena Zucca (Universitá di Genova, Italy)

The program committee for FOOL'12 will be decided on soon.