13th Workshop on Implementation, Compilation, Optimization of Object-Oriented Languages, Programs and Systems
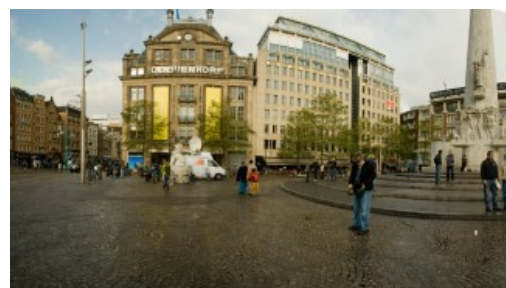
Co-located with ECOOP 2018, held Mon 16 - Sun 22 July in Amsterdam, Netherlands

The ICOOOLPS workshop series brings together researchers and practitioners working in the field of language implementation and optimization. The goal of the workshop is to discuss emerging problems and research directions as well as new solutions to classic performance challenges.

The topics of interest for the workshop include techniques for the implementation and optimization of a wide range of languages including but not limited to object-oriented ones. Furthermore, meta-compilation techniques or language-agnostic approaches are welcome, too.

A non-exclusive list of topics of interest for this workshop is:

- Implementation and optimization of fundamental languages features (from automatic memory management to zero-overhead metaprogramming)
- Runtime systems technology (libraries, virtual machines)
- Static, adaptive, and speculative optimizations and compiler techniques
- Meta-compilation techniques and language-agnostic approaches for the efficient implementation of languages
- Compilers (intermediate representations, offline and online optimizations,…)
- Empirical studies on language usage, benchmark design, and benchmarking methodology
- Resource-sensitive systems (real-time, low power, mobile, cloud)
- Studies on design choices and tradeoffs (dynamic vs. static compilation, heuristics vs. programmer input,…)
- Tooling support, debuggability and observability of languages as well as their implementations

PC Chair

Tim Felgentreff
Oracle Labs Germany, Potsdam, Germany

Workshop format and Submissions

This workshop welcomes the presentation and discussion of new ideas and emerging problems that give a chance for interaction and exchange. More mature work is welcome as part of a mini-conference format, too. We aim to interleave interactive brainstorming and demonstration sessions between the formal presentations to foster an active exchange of ideas. The workshop papers will be published in ACM DL or an open archive (to be confirmed).

- Position and work-in-progress papers: 1-4 pages
- Technical papers: up to 10 pages
- Demos and posters: 1-page abstract

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Important Dates
Submissions: May 18, 2018
Notification: June 8, 2018