

# Late-Breaking Abstracts Workshop at GECCO'15

## Chair's Welcome

This year's Late-Breaking Abstracts Workshop continues its tradition of presenting late-breaking developments in the field of genetic and evolutionary computation at GECCO. The aim is to provide a forum for late-breaking results that were not available at the close of submission for full papers, including ongoing work where only initial results have emerged so far. Many student authors take this opportunity to present their work to an audience of international researchers, and I'm confident that they will benefit greatly from this experience and participation at GECCO.

Submissions as two-page abstracts were briefly examined for relevance and minimum standards of acceptability, but not peer reviewed in detail. Out of 22 submissions, 20 high-quality submissions were accepted for presentation at the Late-Breaking Abstracts Workshop.

Abstracts cover a wide range of topics, from exotic evolutionary paradigms such as neuroevolution, evolution-in-materio, surrogate-assisted evolutionary computation, parallel MOEA/D and hybridizations with cross entropy to other metaheuristic paradigms like artificial fish swarms, parallel ACO, self-adaptive tabu search and variable width backtracking. Research questions tackled included steadiness in NSGA-II, developing a parameter-less evolutionary portfolio, generating easy and hard problems, and the empirical analysis of performance scaling. Application areas included malware obfuscation, project scheduling, vehicle routing, optimizing personal rapid transit transportation systems, and evolving trading rules, robot gaits, and virtual creatures with soft-body muscles. Well done to all authors for providing this extraordinary breadth of topics, and well done for fitting their cutting-edge research results on just two pages!

I hope that you will find this workshop interesting and inspiring, and that it will provide a valuable opportunity to share late-breaking ideas with other GECCO attendees from around the world.



**Dirk Sudholt**

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