Late-Breaking Abstracts Workshop at GECCO'16 Chair's Welcome

The Late-Breaking Abstracts Workshop presents 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. Following the success of the last year's poster format, authors of the accepted submissions were asked to prepare a poster, in addition to the abstract, summarizing their contributions. Attendees to the workshop will have the opportunity to interact with authors and enjoy a dynamic forum to share and spread scientific ideas.

Submissions as two-page abstracts were briefly examined for relevance and minimum standards of acceptability, but not peer reviewed in detail. Out of 15 submissions, 13 high-quality submissions were accepted for presentation at the Late-Breaking Abstracts Workshop.

Abstracts cover a wide range of topics including classical problems like the traveling salesman problem, pseudo-Boolean optimization, feature selection, clustering, and community detection in complex networks. Some abstracts address smart cities and engineering problems like service restoration in energy distribution systems, road traffic prediction, and residual stress analysis in railroad rails and vehicle wheels. Biology and cognitive psychology are also among the topics of the abstracts. The algorithms proposed include well-known methods like evolutionary algorithms, scatter search, particle swarm optimization, differential evolution, and recent proposals like schemata bandits and golden-ball metaheuristic. Hybridization is also present in some proposals. The reader can also find abstracts where no algorithm is proposed, but a research question is addressed. What is the bias of the one-point crossover applied to a feature selection problem? Are evolutionary computation-based methods comparable to state-of-the-art non-evolutionary methods for community detection? If you want to know the answers do not miss the abstracts.

I would like to thank all the authors submitting a late-breaking abstract for supporting this workshop. 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.

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