

## Special issue of Annals of Mathematics and Artificial Intelligence

"Learning and intelligent optimization"

This special issue aims at exploring the boundaries and uncharted territories between machine learning, artificial intelligence, mathematical programming, and algorithms for hard optimization problems. In particular, we solicit contributions dealing with all aspects of learning and intelligent optimization. Topics of interest include, but are not limited

to:

- \* Stochastic local search methods and meta-heuristics
- \* Hybridizations of constraint and mathematical programming with meta-heuristics
- \* Supervised, unsupervised and reinforcement learning applied to heuristic search
- \* Reactive search optimization (online self-tuning methods)
- \* Algorithm portfolios and off-line tuning methods
- \* Algorithms for dynamic, stochastic and multi-objective problems
- \* Interface(s) between discrete and continuous optimization
- \* Experimental analysis and modeling of algorithms
- \* Theoretical foundations
- \* Parallelization of optimization algorithms

### Submission

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You are invited to submit original work on the topics relevant for this special issue of Annals of Mathematics and Artificial Intelligence, which is published by Springer.

- \* submission deadline: August 30, 2009
- \* tentative publication: Autumn 2010

Authors should submit their manuscript to the AMAI editorial manager at <http://www.editorialmanager.com/amai/>. Please select "special issue on learning and intelligent optimization" as the article type. When submitting a paper, please also send an email to Roberto Battiti ([battiti@disi.unitn.it](mailto:battiti@disi.unitn.it)) with the paper title and the author list to inform about the submission.

Each submission will be evaluated in a two-stage process. Only submissions that pass a quick first stage review will be thoroughly peer-reviewed.

### Guest editors

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