

Call for Papers:  
**Machine Learning**

**Special Issue**

***“Data Analysis and Intelligent Optimization with Applications”***

The Machine Learning journal invites submissions to a special issue on “*Data Analysis and Intelligent Optimization with Applications*”.

The aim of this special issue is to bring together researchers working in different areas related to analytics and/or intelligent optimization. The special issue includes both the theory and the practice of Data Analysis and Intelligent Optimization. Papers devoted to statistical as well as heuristic methods of Machine Learning are welcome. This special issue welcomes papers devoted to optimization problems in Data Analysis and Machine Learning.

A non-exhaustive list of topics of interest is given below.

### **Methods**

- Intelligent Optimization,
- Model Selection and Model Complexity,
- Predictive Modeling and Optimization,
- Computational Complexity and Optimization,
- Pattern Recognition and Classification,
- Regression and Forecasting,
- Models of Data and Measurements,
- Feature Selection,
- Soft Computing,
- Learning Theory,
- Treatment of Imbalanced Data Sets,
- All kinds of data analysis models (e.g. Support Vector Machines, Neural Networks, Bayesian Networks, Rule Induction and Ensemble Learning).

### **Applications**

- Business applications,
- Health care applications,
- Security related applications,
- Applications in logistics,
- Computer Vision,
- Speech Recognition,
- Information Technologies,
- Economics and Sociology,
- Finance and Risk Analysis,
- Text Mining, Web Mining, and Information Retrieval,
- Bioinformatics and Chemistry,
- Medicine and Biology,
- Earth Science.

## Machine Learning

Machine Learning is an international forum for research on computational approaches to learning. The journal publishes articles reporting substantive results on a wide range of learning methods applied to a variety of learning problems.

The journal features papers that describe research on problems and methods, applications research, and issues of research methodology. Papers making claims about learning problems or methods provide solid support via empirical studies, theoretical analysis, or comparison to psychological phenomena. Applications papers show how to apply learning methods to solve important applications problems. Research methodology papers improve how machine learning research is conducted.

All papers describe the supporting evidence in ways that can be verified or replicated by other researchers. The papers also detail the learning component clearly and discuss assumptions regarding knowledge representation and the performance task.

## Article Submission

Please find the journal page under <http://www.springer.com/computer/ai/journal/10994>. Resources for journal authors, including templates and style files can be found at: <http://www.springer.com/authors>. After paper submission, there will a careful and rigorous reviewing process of via Editorial Manager<sup>TM</sup> reviewing system. The article Type in EMT author menu: “**SI: Data Analysis & Intelligent Opt.**”. Please visit <http://www.editorialmanager.com/mach/> to submit your paper.

## Important Dates

Submission deadline of full papers: December 31, 2013. However, we encourage early submission and will start the review process as soon as we receive a manuscript.

*In case of any question, please contact by e-mail one of the following guest editors:*

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