

## Call for papers for MACHINE LEARNING journal

Special Issue on:

“Machine Learning for Digital Signal Processing”



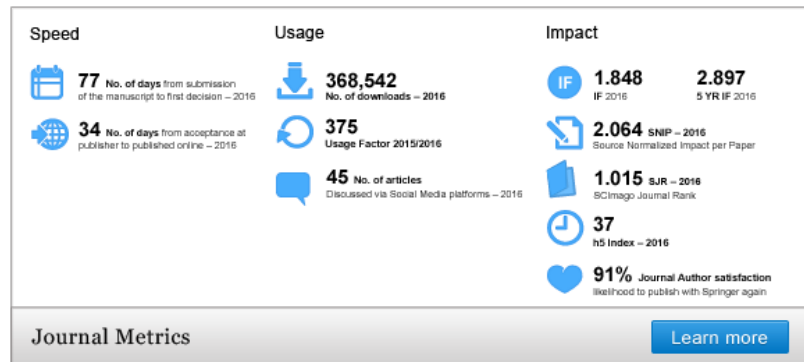
## Machine Learning

Editor-in-Chief: Peter A. Flach

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### 1. TITLE: **Machine Learning for Digital Signal Processing**

2. FOCUS: The **Machine Learning** journal invites submissions of original contributions to a special issue on *Machine Learning for Digital Signal Processing*. Machine Learning usually plays an important role in the transition from data storage to decision support systems based on very large databases of digital signals such as the data obtained from sensor networks, internet services, or communication systems. These systems stimulate development of both computational solutions and novel models. Signals from real-world

systems such as speech, music, bio-medical, multimedia, among others, are usually quite complex making digital signal processing very useful to automate analytic operations in order to retrieve information from the data storage.

Topics will range from foundations for real-world systems, and speech processing to language analysis, biomedicine, convergence and complexity analysis, machine learning, social networks, sparse representations, visual analytics, robust statistical methods.

This special issue solicits papers on machine learning approaches for all aspects of digital signal processing and artificial intelligence, including (but not being limited to) the topics such as:

- Learning theory
- Cognitive information processing
- Neural networks
- Machine learning for speech processing
- Classification and pattern recognition
- Nonlinear signal processing
- Graphical models and kernel methods
- Genomic signals and sequences
- Multichannel adaptive signal processing
- Kernel methods and graphical models
- Sparsity-aware learning
- Subspace/manifold learning
- Bayesian and distributed learning
- Smart Grid, games, social networks
- Computational Intelligence
- Data-driven adaptive systems
- Data-driven models
- Multimodal data fusion
- Multiset data analysis
- Perceptual signal processing
- Applications (biomedical signals, biometrix, bioinformatics)

### 3. GUEST EDITORS:

Dr. Jolanta Mizera-Pietraszko	Opole University	Poland
Dr. Ricardo Rodriguez Jorge	Autonomous University of Ciudad Juarez	Mexico
Dr. Yao Xie	Georgia Institute of Technology	USA

#### 4. CONTACT:

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#### 5. DESCRIPTION:

Submission of a paper to **Machine Learning** journal is permitted only if the paper has not been submitted, accepted, published or copyrighted in another journal.

Papers that have been published in SiPML 2017 Workshop proceedings may be submitted for consideration to **Machine Learning** provided that:

- i. Authors cite their earlier work to emphasize that the version submitted is extended by at least 30% beyond the original paper accepted by the Workshop SiPML 2017 review committee
- ii. The version submitted to this special issue includes some novel elements, in particular more related work, new experiments, new findings
- iii. For submission information, please consult the instructions for authors of **Machine Learning** at:

<http://www.springer.com/computer/ai/journal/10994>

All submissions are going to be reviewed by three reviewers; the final camera ready manuscripts must be revised by the author(s) according to reviewers' comments before it will be sent to the Guest Editors.

## 6. EDITORIAL SCHEDULE:

The schedule for this special issue has been designed around the timing of the 2017 Workshop on Signal Processing and Machine Learning (SiPML 2017) in Barcelona, Spain (November 2017). The idea is that the special issue will be published at the middle of 2018 after SiPML 2017, therefore it will maximize the interest and impact of the contributions to the special issue. The overall schedule of this special issue is as follows:

<i>Overall schedule of Special Issue</i>	
<b>Date</b>	<b>Milestone/Activity</b>
<b>31 March 2018</b>	Deadline for manuscript submissions
30 May 2018	Review results (round 1)
30 June 2018	Revised papers due
15 July 2018	Final review results / final manuscript selection
Middle 2018	Publication of special issue

All manuscripts are subject to the Journal's submission, formatting and reviewing requirements and are to be submitted via the online submission system.

## 7. ADDITIONAL INFORMATION:

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