



EAML 2017

Special Session Ensemble Approach to Machine Learning

at the 9th International Conference on Computational Collective Intelligence (ICCCI 2017)

Nicosia, Cyprus, September 27-29, 2017

Conference website: <http://cyprusconferences.org/iccci2017/>

Special Session Organizers

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Objectives and topics

Ensemble methods have gained great attention of scientific community over the last several years. Multiple models have been theoretically and empirically shown to provide significantly better performance than their single base models. Ensemble algorithms have found their application in various real word problems ranging from person recognition through medical diagnosis and text classification to financial forecasting. The EAML 2017 Special Session at the 7th International Conference on Computational Collective Intelligence Technologies and Applications (ICCCI 2017) is devoted to the ensemble methods addressing classification, prediction, and clustering problems and their application to Big Data and small data sets as well as data streams and stationary data sets. We want to offer an opportunity for researchers and practitioners to identify new promising research directions as well as to publish recent advances in this area. The scope of the EAML 2017 includes, but is not limited to the following topics:

- Theoretical framework for ensemble methods
- Ensemble learning algorithms: bagging, boosting, stacking, etc.
- Ensemble methods in clustering
- Dealing with Big Data and small data sets
- Subsampling and feature selection in multiple model machine learning
- Diversity, accuracy, interpretability, and stability issues
- Homogeneous and heterogeneous ensembles
- Hybrid methods in prediction and classification
- Incremental, evolving, and online ensemble learning
- Mining data streams using ensemble methods
- Ensemble methods for dealing with concept drift
- Multi-objective ensemble learning
- Ensemble methods in agent and multi-agent systems
- Implementations of ensemble learning algorithms
- Assessment and statistical analysis of ensemble models
- Applications of ensemble methods in business, engineering, medicine, etc.

Important dates

Submission of papers: **April 1, 2017**
Notification of acceptance: **May 1, 2017**
Camera-ready papers: **May 15, 2017**
Registration & payment: **June 15, 2017**
Conference date: **September 27-29, 2017**

Program Committee (to be invited)

Jorgi Mong, Warsaw University of Technology, Poland
Jan Kowalski, Wroclaw University of Science and Technology, Poland
Jason Smith, University of Oregon, Nevada, USA
Krzysztof Novak, Wroclaw University of Science and Technology, Poland
Piotr Krawiec, Warsaw University of Technology, Poland
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Edward Szczerba, University of Sydney, Australia
Hubert Swiatek, Wroclaw University of Science and Technology, Poland
Halina Taras, Warsaw University of Technology, Poland
David Brown, Idaho State University, USA

Submission

All contributions should be original and not published elsewhere or intended to be published during the review period. Authors are invited to submit their papers electronically in pdf format, through EasyChair. All the special sessions are centralized as tracks in the same conference management system as the regular papers. Therefore, to submit a paper please activate the following link and select the track: **EAML 2017: Special Session on Ensemble Approach to Machine Learning**.

<https://www.easychair.org/conferences/?conf=iccci2017>

Authors are invited to submit original previously unpublished research papers written in English, of up to 10 pages, strictly following the LNCS/LNAI format guidelines. Authors can download the Latex (recommended) or Word templates available at [Springer's web site](#). Submissions not following the format guidelines will be rejected without review. To ensure high quality, all papers will be thoroughly reviewed by the **EAML 2017 Program Committee**. All accepted papers must be presented by one of the authors who must register for the conference and pay the fee. The conference proceedings will be published by Springer in the prestigious series LNCS/LNAI (indexed by ISI CPCI-S, included in ISI Web of Science, EI, ACM Digital Library, dblp, Google Scholar, Scopus, etc.).