

MMAML 2021

Special Session on Multiple Model Approach to Machine Learning

at the 13th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2021)

Phuket, Thailand, April 7-10, 2021

Conference website: <http://www.aciids.pwr.edu.pl/>

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 world problems ranging from person recognition through medical diagnosis and text classification to financial forecasting. The MMAML 2021 Special Session at the 12th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2021) 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 MMAML 2021 includes, but is not limited to the following topics:

- Theoretical framework for ensemble methods
- Ensemble learning algorithms: bagging, boosting, stacking, etc.
- Ensemble methods for deep learning
- 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
- Big data mining and big data analytics
- 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.

Session chairs

Tomasz Kajdanowicz, Wrocław University of Science and Technology, Poland
Edwin Lughofer, Johannes Kepler University Linz, Austria
Bogdan Trawiński, Wrocław University of Science and Technology, Poland

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Important dates

Submission of papers: **31 October 2020 (Extended)**
Notification of acceptance: **1 December 2020**
Camera-ready papers: **15 December 2020**
Registration & payment: **15 December 2020**
Conference date: **7-10 April 2021**

International Program Committee (to be invited)

Emili Balaguer-Ballester, Bournemouth University, UK
Urszula Boryczka, University of Silesia, Poland
Abdelhamid Bouchachia, Bournemouth University, UK
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Zhongwei Zhang, University of Southern Queensland, Australia
Zhi-Hua Zhou, Nanjing University, China

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: **MMAML 2021: Special Session on Multiple Model Approach to Machine Learning**.

<https://easychair.org/conferences/?conf=aciids2021>

Authors are invited to submit original previously unpublished research papers written in English, of up to 13 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 MMAML 2021 International 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.).