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|  | **2017 IEEE International Conference on Innovationsin Intelligent SysTems and Applications** **3-5 July 2017, Gdynia, Poland** |  |

# EAML 2017Special Session on Ensemble Approach to Machine Learning

at the 2017 IEEE International Conference on INnovations in Intelligent SysTems and Applications (INISTA 2017)

Gdynia, Poland, July 3-5, 2017

Conference website: [**http://inista.org/**](http://inista.org/)

## Special Session Organizers

**Prof. Jan Kowalski**

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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 2017 IEEE International Conference on INnovations in Intelligent SysTems and Applications (INISTA 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: 1 March 2017
Notification of acceptance: 15 April 2017
Camera-ready papers: 30 April 2017
Registration & payment: 15 May 2017
Conference date: 3-5 July 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

John Black, Coventry University, UK

Marek Naniec, AGH University of Science and Technology, Poland

Andy Rind, University of Alberta, USA

Joel Rodrigues, University of Peira Interior, Portugal

Andrzej Rucki, University of Hampshire, USA

Henry Salve, University of Las Vegas, Nevada, USA

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://easychair.org/conferences/?conf=inista2017**](https://easychair.org/conferences/?conf=inista2017)

**Paper format:** Papers must be prepared using [**IEEE templates for conference proceedings**](http://www.ieee.org/conferences_events/conferences/publishing/templates.html)**.**

**Page limit:** The maximum page limit is 6 inclusive of figures and tables. INISTA will offer the option to buy limited number of extra pages for submission.

**Language:** The official language for the conference is English. Less than satisfactory English usage may form the sole basis for rejection of a paper and omission of any such final paper version from the conference proceedings. Authors whose native language is not English are encouraged to check their papers for proper English spelling and grammar using tools such as English grammar checkers available with most word processing application software. Alternatively, proofreading support from a native English-speaking colleague or technical editor may suffice. Some authors may be interested in the paid service available at the following link: [**http://www.prof-editing.com/ieee/**](http://www.prof-editing.com/ieee/) for the final version of the paper