



## MLRWD 2018

### Special Session on Machine Learning in Real-World Data

at the 10<sup>th</sup> International Conference on Computational Collective Intelligence (ICCCI 2018)

Bristol, UK, September 5-7, 2018

Conference website: <http://www.iccci2018.org>

#### Special Session Organizers

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#### Objectives and topics

Machine learning includes various methods related mostly with complex real-world data. Its usability among subjects related to the field of medicine, finance, artificial intelligence, text mining, image analysis is obvious. However, introducing new concepts, like Big data or stream data as well as the Internet of Things forces users to extend existing solutions even further. Some of the most prominent examples among such machine learning methods are ensemble methods, multicriteria evolutionary algorithms, deep learning in neural networks and many more. We are particularly interested with subjects including various hybrid methods, extensions of existing methods, novel knowledge representations, which could be effectively used in the real-world applications, which focus (but are not limited to) on finance and medicine.

The MLRWD 2018 Special Session at the 10th International Conference on Computational Collective Intelligence (ICCCI 2018) is devoted to among several machine learning tasks - such as classification, clustering, prediction, discovering the relationships between parameter values and the interactions between parts of the analyzed approaches in the context of optimization. We would like to offer an opportunity for researchers to focus especially on new methods related mostly to applications of machine learning in real-world applications. The scope of the session includes, but is not limited to the following subjects:

- Swarm and Evolutionary algorithms and their applications;
- Multicriteria optimization for large scale problems;
- Decision Support systems;
- Data classification and data clustering;
- Decision trees and ensemble methods;
- Stream data analysis;
- Big Data representation;
- Association rule mining;
- Pattern recognition;

- Artificial neural networks and deep learning;
- Contributions from similar subjects e.g. Computational Learning Models, Evolutionary Techniques, Multi-Agent Systems.

## Important dates

Submission of papers: **April 1, 2018**  
 Notification of acceptance: **May 1, 2018**  
 Camera-ready papers: **May 15, 2018**  
 Registration & payment: **June 1, 2018**  
 Conference date: **September 5-7, 2018**

## Program Committee (to be invited)

Białas Franciszek, University of Economics in Katowice, Poland  
 Dzikowski Grzegorz, University of Economics in Katowice, Poland  
 Grzegorzek Marcin, University of Siegen, Germany.  
 Kaliszewski Ignacy, Systems Research Institute, Polish Academy of Sciences, Poland  
 Kania Krzysztof, University of Economics in Katowice, Poland  
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 Staś Tomasz, University of Economics in Katowice, Poland  
 Tkacz Magdalena, University of Silesia, Poland  
 Zacny Bogna, University of Economics in Katowice, Poland

## 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: **MLRWD 2018: Special Session on Machine Learning in Real-World Data.**

<https://www.easychair.org/conferences/?conf=iccci2018>

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 **MLRWD 2018 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.).