



## IMSARWS 2019

### Special Session on Intelligent Modeling and Simulation Approaches for Real World Systems

at the 11<sup>th</sup> International Conference on Computational Collective Intelligence (ICCCI 2019)

Hendaye, France, September 4-6, 2019

Conference website: <http://iccci.sigappfr.org/>

#### Special Session Organizers

**Prof. Doina Logofătu**

Department of Computer Sciences and Engineering  
Frankfurt University of Applied Sciences, Germany  
E-mail: [logofatu@fb2.fra-uas.de](mailto:logofatu@fb2.fra-uas.de)

**Prof. Costin Bădică**

Department of Computer Sciences and Computer Technology  
University of Craiova, Romania  
E-mail: [cbadica@software.ucv.ro](mailto:cbadica@software.ucv.ro)

**Prof. Florin Leon**

Faculty of Automatic Control and Computer Engineering  
"Gheorghe Asachi" Technical University of Iași, Romania  
E-mail: [florinleon@gmail.com](mailto:florinleon@gmail.com)

#### 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, there is still the need of improving machine learning methods on real-world data. Taking real problems and turning them into ML tasks is a complex art.

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.

The MSARWS 2019 Special Session at the 11th International Conference Computational Collective Intelligence (ICCCI 2019) is devoted to among several machine learning tasks, such as classification, prediction, feature engineering, feature selections, analyzing approaches for 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 MSARWS 2019 includes, but is not limited to the following topics:

- Real world dataset
- Data classification and data clustering
- Highly constrained problems
- Hybrid methods in prediction and classification
- Robust real-world optimization
- Probabilistic real-world optimization
- Artificial neural networks and deep learning
- Swarm and evolutionary algorithms and their applications
- Decision support systems
- Decision trees and ensemble methods
- Ensemble learning algorithms: bagging, boosting, stacking, etc.

## Important dates

Submission of papers: **April 15, 2019 (Extended-Strict)**

Notification of acceptance: **May 20, 2019**

Camera-ready papers: **June 1, 2019**

Registration & payment: **June 1, 2019**

Conference date: **September 4-6, 2019**

## Program Committee (to be invited)

Alabbas Alhaj Ali, Frankfurt University of Applied Sciences, Germany  
Costin Bădică, University of Craiova, Romania  
Florin Leon, "Gheorghe Asachi" Technical University of Iași, Romania  
Doina Logofătu, Frankfurt University of Applied Sciences, Germany  
Fitore Muharemi, Frankfurt University of Applied Sciences, Germany

## 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: ***IMSARWS 2019: Special Session on Intelligent Modeling and Simulation Approaches for Real World Systems.***

<https://easychair.org/conferences/?conf=iccci2019>

Authors are invited to submit original previously unpublished research papers written in English, of up to 12 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 ***IMSARWS 2019 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.).