



12th International Conference on Computational Collective Intelligence ICCCI 2020

30 November – 3 December 2020, Da Nang, Vietnam



IMSAGRWS 2020

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

at the 12th International Conference on Computational Collective Intelligence (ICCCI 2020)

Da Nang, Vietnam, 30 November – 3 December 2020

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

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, games 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 IMSAGRWS 2020 Special Session at the 12th International Conference Computational Collective Intelligence (ICCCI 2020) 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 IMSAGRWS 2020 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

Due to the COVID-19 pandemic the conference date was postponed to 30 November - 3 December 2020
The second round of submitting and reviewing is organized:

Submission of papers: **June 1, 2020 (Hard deadline)**
Notification of acceptance: **July 1, 2020**
Camera-ready papers: **July 15, 2020**
Registration & payment: **July 15, 2020**
Conference date: **Nov. 30 - Dec. 3, 2020**

Program Committee

Alabbas Alhaj Ali, Frankfurt University of Applied Sciences, Germany
Costin Bădică, University of Craiova, Romania
Petru Cașcaval, "Gheorghe Asachi" Technical University of Iași, Romania
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Paweł Sitek, Kielce University of Technology, Poland
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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: **IMSAGRWS 2020: Special Session on Intelligent Modeling and Simulation Approaches for Games and Real World Systems.**

<https://easychair.org/conferences/?conf=iccci20200>

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 IMSAGRWS 2020 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.).

COVID-19 pandemic issues

The ICCCI 2020 organizing committee decided to firmly organize the conference on the scheduled date from November 30 to December 3, 2020 on-site in Da Nang.

If, due to the COVID-19 pandemic, any of the authors will not be able to come to Vietnam, the organizing committee will provide them with the opportunity to present their papers online.

However, if the restrictions do not allow to organize a conference on-site, the entire conference will be held in OnLine mode, using a videoconferencing system and virtual meeting rooms.