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**Call for Papers**  
**Journal of Universal Computer Science (J.UCS)**  
**Special Issue**

**Heuristic Optimization and Operations Research in IoT**

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## **Background & Call for Manuscripts**

This special issue of J.UCS focuses on operational and systemic research with particular emphasis on artificial intelligence methods and techniques, machine learning elements and image processing, as well as their applications in the broadly understood IoT. The main focus of this SI is on problems related to making decisions under conditions of uncertainty and with incomplete data. This often requires the design, implementation and solution/execution of models that represent the tested system. This SI is also open to papers that deal with the assessment of activities on the basis of measurable criteria and using mathematical models to search for optimal solutions according to given criteria, including multi-criteria analysis. Heuristic and mixed algorithmic heuristic are the reference approach, but works on equal aspects of fuzzy logic and its applications in optimization, especially in financial engineering and IT security, are welcome.

### **The main research topics are expected to be, but not limited to:**

- swarm intelligence,
- fuzzy logic,
- IoT hardware and software solutions,
- application of fuzzy logic in databases,
- decision support systems,
- fuzzy methods of representation and processing of information,
- control and decision making in conditions of uncertainty and lack of precision,
- evolutionary programming,
- mobile devices,
- neural networks,
- approximate sets ,
- cryptology and data security,
- financial engineering,
- mobile software engineering.

## **Important Deadlines**

- Submission by: 2th June 2020
- Notification of authors by: 2th August 2020
- Revised submission by: 15th September 2020
- Notification about final decision by: 30th October 2020

## **Submission and Evaluation Procedure**

The Journal of Universal Computer Science is a high-quality electronic publication that deals with all aspects of computer science. J.UCS has been appearing monthly since 1995 and is thus one of the oldest electronic journals with uninterrupted publication since its foundation. A number of special issues as well as the printed archive editions of the volumes are also available in print and can be ordered directly from J.UCS office.

For further information, please refer to

[http://www.jucs.org/jucs\\_info/aims/unique\\_features.html](http://www.jucs.org/jucs_info/aims/unique_features.html)

Manuscripts must be submitted in PDF format, written in English and should not exceed 20 pages. Papers only prepared according to the JUCS's guidelines for authors and submitted

online (see procedure described below) will be included in the review process. Illustrations and tables must be provided as integrated parts of the manuscript. The guidelines for authors are available at

[http://www.jucs.org/ujs/jucs/info/submissions/style\\_guide.html](http://www.jucs.org/ujs/jucs/info/submissions/style_guide.html).

Please, bear in mind, that the extended version of papers originally presented at a conference or workshop must contain about 50% new material and the title of the extended version must clearly and unmistakably differ from the title of the article presented at the conference. Only novel research papers which are currently not under review at another event or a journal are accepted for the review process. For more details, please also refer to

[http://www.jucs.org/ujs/jucs/info/special\\_issues/special\\_guidelines.html](http://www.jucs.org/ujs/jucs/info/special_issues/special_guidelines.html)

Please submit your original and proof-read papers not later than 2th June 2020 to

**<https://easychair.org/conferences/?conf=hoor2020>**

Each paper will be blind reviewed by at least 3 reviewers. According to the covered main subjects in the content, a selected set of reviewers with the appropriate expertise will be assigned.

### **List of Reviewers (Tentative, in addition to the guest editors):**

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