



IEEE World Congress on
Computational Intelligence
June 30 – July 5, 2024



WCCI FUZZ-IEEE CALL FOR PAPERS

IMPORTANT DATES

- 15 November 2023**
Special Session & Workshop
Proposals Deadline
- 15 December 2023**
Competition & Tutorial
Proposals Deadline
- 15 January 2024**
Paper Submission Deadline
- 15 March 2024**
Paper Acceptance
Notification
- 1 May 2024**
Final Paper Submission &
Early Registration Deadline
- 30 June – 5 July 2024**
IEEE WCCI 2024
Yokohama, Japan



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Fuzzy Machine Learning

FUZZ-IEEE 2024 The IEEE International Conference on Fuzzy Systems (FUZZ-IEEE) covers all topics in fuzzy systems from theory to real-world applications.

Special Session Abstract

The traditional machine learning models lack the ability to handle real-world uncertainty, provide interpretable models, and offer a robust mechanism to support dynamic environment. Fuzzy sets, fuzzy logic and fuzzy systems are well renowned for their capability to model uncertainty, enhance models' interpretability and offer an efficient and flexible way of representing data and navigating prediction models. Thus, the integration of machine learning and fuzzy techniques is prevailing and has gained great success in many areas. This special session aims to provide a forum for researchers to share the latest results in integrating fuzzy techniques and machine learning methods.

Topics of Interest

The main topics of this special session include, but are not limited to:

- Fuzzy technique-based feature selection and extraction
- Fuzzy rule-based knowledge representation in machine learning
- Fuzzy classification, fuzzy regression, and fuzzy clustering
- Fuzzy transfer learning
- Fuzzy concept drift
- Fuzzy neural networks to modelling complex problems
- Fuzzy support vector machine, fuzzy decision trees
- Fuzzy modelling for handling uncertainties in machine learning models
- Methods to improve models' interpretability using fuzzy techniques
- Methods to enhance models' robustness using fuzzy techniques
- Granular clustering, modelling and control
- Fuzzy techniques for aggregation, combination and information fusion in machine learning models
- Fuzzy machine learning based decision support
- Applications in transport, ICT, healthcare, business intelligence and more

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