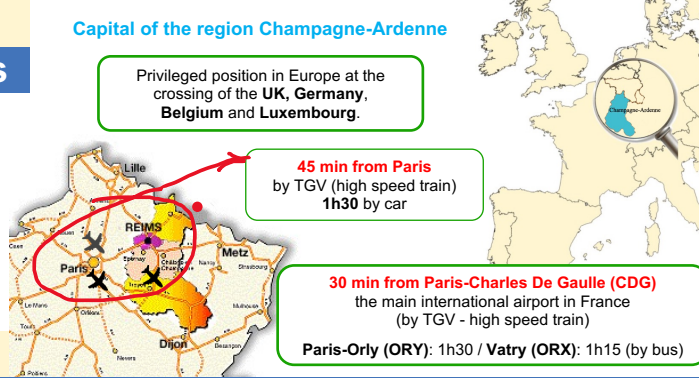


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Special Session: Fuzzy Machine Learning

The Annual **IEEE International Conference on Fuzzy Systems (FUZZ-IEEE)** is one of the premier international conference in the field of fuzzy sets and systems and related areas. Its 2025 edition will be held in the City of Reims, France.

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FUZZ-IEEE 2025 SS: Fuzzy Machine Learning

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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.

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 cross-domain recommendation
- 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

Find more about UTS-AAII: The Australian Artificial Intelligence Institute (AAII) is a world leading research institute in artificial intelligence, with a vision to develop theoretical foundations and advanced algorithms for AI, and to drive significant progress in related areas.

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