

ISKE 2023

Fuzhou, China

November 17-19, 2023

Special Session on

Explainable Deep Learning Techniques and Applications

 <http://iske2023.org/>

The 2023 IEEE International Conference on Intelligent Systems and Knowledge Engineering (ISKE 2023) is the 18th in a series of ISKE conferences. The conference will be held in Fuzhou, a beautiful place in southeast of China.

The conference proceedings will be published by IEEE Press (sent to be EI indexed). Special issues of SCI indexed journals will be devoted to a strict refereed selection of extended papers presented at ISKE 2023.

Scope and Motivation

Deep learning is an artificial neural network-based frontier technique in artificial intelligence and has been widely used for speech processing, computer vision, and natural language processing. Focusing on this frontier technique and the era needs of developing explainable artificial intelligence (XAI), it is necessary and valuable to propose a series of new deep learning techniques based on advanced and explainable machine learning algorithms, so called explainable deep learning (XDL) techniques, which can foster the understanding of the underlying problem and the reasons behind decisions. Owing to XDL, it not only promotes the development of XAI, but also ensure that the current applications of deep learning are not merely accurate, but transparent and explainable.

List of Topics

- XDL techniques based on data-driven, knowledge-driven, or both-driven modeling
- XDL techniques with imbalanced learning
- XDL techniques with big data
- Rule base-based XDL techniques and its transparency, explainability and interpretability
- XDL techniques for knowledge enhanced machine learning
- Real-word applications with XDL techniques
- XDL techniques for sensor-based smart home activity recognition

Important Dates

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| • Full Paper Submission Deadline | July 31, 2023 |
| • Acceptance Notification Deadline | August 31, 2023 |
| • Camera-Ready Paper Submission Deadline | October 30, 2023 |
| • Conference Dates | November 17-19, 2023 |



PAPER SUBMISSION

<https://easychair.org/my/conference?conf=iske2023>

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