

Call for Papers, Special Session:
“Explainable Artificial Intelligence and Trustworthy Intelligent Systems”

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Organizer’s



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Topics of Session:

- Explainable AI (XAI) for intelligent decision-making systems
- Trustworthy machine learning and transparent AI models
- Interpretability techniques for deep neural networks
- Responsible AI and ethical intelligent computing systems
- Bias detection and fairness in intelligent algorithms
- Explainable AI for healthcare, biomedical informatics, and diagnostics
- Trust-aware AI for cybersecurity and anomaly detection
- Explainable models for intelligent communication networks
- Human-centered AI and interpretable human–machine interaction
- Transparent AI models for IoT and cyber-physical systems
- Evaluation frameworks for trustworthy intelligent systems
- Hybrid explainable models combining symbolic AI and deep learning
- Policy, governance, and risk assessment for intelligent systems

Artificial intelligence systems are increasingly used in critical domains such as healthcare, cybersecurity, communication networks, and autonomous systems. Despite their strong predictive capabilities, many modern AI models operate as complex black boxes, which raises concerns regarding transparency, fairness, and reliability. This special session focuses on research that aims to make intelligent systems more interpretable, accountable, and trustworthy. Contributions addressing explainable AI techniques, ethical and responsible AI frameworks, bias detection, transparent deep learning models, and trustworthy decision-making systems are particularly encouraged. The session seeks to explore how interpretability methods and human-centered AI approaches can enhance confidence in intelligent systems deployed in real-world applications.