

## Special Issue

# Fault Detection Based on Deep Learning

### Message from the Guest Editors

For this Special Issue, we seek contributions that cover a wide range of topics related to deep learning-based fault detection, including, but not limited to, the following: **(1) Novel deep learning architectures** for fault detection in specific domains (e.g., manufacturing, energy systems, automotive, aerospace, etc.); **(2) Hybrid models** that combine deep learning with traditional methods for enhanced performance and robustness; **(3) Transfer learning and data augmentation** techniques to improve model generalization with limited fault data; **(4) Explainability and interpretability** of deep learning models in fault detection, ensuring their integration into safety-critical applications.

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### Guest Editors

Prof. Dr. Maoyin Chen

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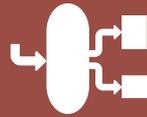
Dr. Zhu Wang

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### Deadline for manuscript submissions

closed (20 October 2025)



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