

# Special Issue

## Machine Learning and Related Statistical Applications in Complex Systems

### Message from the Guest Editors

The rapid expansion of machine learning (ML) brings challenges in interdisciplinary coordination, outcome reliability, and resource-intensive training. This Special Issue on “Machine Learning and Related Statistical Applications in Complex Systems” seeks to address these issues by showcasing successful applications and innovative methods. We welcome submissions on:

- Analysis, prediction, classification, and design in complex systems (e.g., power grids, transportation, finance, autonomous vehicles, biological and climate systems).
- Addressing ML challenges such as safety, reliability, explainable AI (XAI), training bias, data acquisition, and hardware acceleration for embedded ML.

We invite researchers and practitioners to share their latest findings and solutions.

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### Guest Editors

Dr. Gerald L. Fudge

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### Deadline for manuscript submissions

closed (30 September 2025)



## Technologies

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## About the Journal

### Message from the Editor-in-Chief

*Technologies*, provides a single focus for reporting on developments of all technologies, regardless of their application. It is our intention that *Technologies* becomes the journal of choice for both researchers wanting to publish their work and technologists wishing to exploit the high quality research across a wide range of potential applications. Through its open access policy, its quick publication cycle, *Technologies* will facilitate the rapid uptake and development of the research presented, ultimately providing benefit to the wider society.

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### Editor-in-Chief

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