Special Issue

Explainable Artificial Intelligence for Disease Detection and Secure Monitoring Systems

Message from the Guest Editor

This Special Issue focuses on advancements in explainable AI (XAI) for secure healthcare. Contributions are invited on theoretical developments, novel frameworks, and practical applications of XAI in disease detection, secure remote monitoring, and personalised care, encompassing both conventional and pioneering approaches. The Special Issue focuses on the following topics and more.

- Disease detection methods based on XAI methodologies;
- XAI-enabled tumour detection and diagnosis;
- Novel challenges in current XAI-driven health systems;
- XAI in cardiovascular and neurological disease diagnosis;
- XAI-driven models for infectious disease monitoring;
- Human-centric AI for disease diagnosis;
- The impact of XAI on clinical decision support systems;
- Integrating XAI with IoT-based health monitoring devices;
- XAI-driven early warning systems for chronic conditions;
- Explainable AI for secure IoT-enabled remote health monitoring;
- Privacy-preserving explainable models for healthcare monitoring systems;
- Explainable AI for cybersecurity in connected healthcare systems.

Guest Editor

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Deadline for manuscript submissions

30 September 2025

Algorithms

an Open Access Journal by MDPI

Impact Factor 2.1
CiteScore 4.5

mdpi.com/si/229973

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About the Journal

Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

Editor-in-Chief

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