

Special Issue

Trustworthy AI for Bioinformatics, EHRs, and Remote Monitoring

Message from the Guest Editors

Transformative advances in artificial intelligence (AI) and data analytics are reshaping modern bioinformatics and digital health, from multi-omics and imaging to wearable biosignals and electronic health records (EHRs). Yet, despite impressive benchmark results, key translational challenges persist: interpretability and trust, robust generalisation, data governance and privacy, regulatory readiness, and computational efficiency from cloud to edge. We welcome original research, resources, and perspectives that advance AI for bioinformatics and e-health, spanning (i) novel learning paradigms with a clear path to clinical utility; (ii) methods for explainability, calibration/uncertainty, robustness, and external validation; (iii) EHR- and registry-centred analytics with privacy-preserving learning and interoperability; (iv) wearable and remote monitoring biosignals and telehealth/mHealth pipelines; (v) clinical imaging and multi-omics integration that informs diagnosis, prognosis, or therapy selection; (vi) resource-efficient inference and IoMT/edge AI; (vii) governance and regulation for SaMD.

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