

## Special Issue

# AI for Medical Diagnosis: From Algorithms to Clinical Integration

### Message from the Guest Editor

The field of medical diagnostics is witnessing a transformative era driven by the rapid evolution of Artificial Intelligence. However, the complexity of biological data and the high-stakes nature of clinical decision-making demand more than just the application of standard models. There is a critical need for next-generation AI methodologies—such as Spiking Neural Networks (SNNs) for energy-efficient processing, Foundation Models for versatile medical reasoning, and advanced Explainable AI (XAI) for deep structural transparency. These innovations are essential to overcome the current limitations of "black-box" systems and handle the inherent noise and sparsity of clinical datasets. We are pleased to invite you to contribute to this Special Issue, which focuses on the dual challenge of pioneering algorithmic breakthroughs and ensuring their seamless transition into the clinical environment. By aligning technical novelty with clinical utility, this Special Issue fits the journal's mission to be at the forefront of digital health innovation and computational medicine. We look forward to hearing from you.

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### Guest Editor

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### Deadline for manuscript submissions

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## Diagnostics

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### Message from the Editor-in-Chief

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### Editor-in-Chief

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