

Special Issue

Advancing Clinical Diagnosis with Artificial Intelligence: Applications, Challenges, and Future Directions

Message from the Guest Editors

In recent years, we have witnessed a rapid growth in generative artificial intelligence (AI) technologies and their clinical applications. Large language models (LLMs) have been applied in different aspects of modern medical science. These advanced AI-enhanced technologies are reshaping the landscape of modern diagnosis, enabling the early screening of accurate diagnosis of acute and chronic diseases. Meanwhile, data protection, privacy, and other ethics issues are emerging in this new era, with efforts in regulatory and technical aspects, including cryptography, biometrics, watermarking, and Blockchain-based security techniques. The aim of this Special Issue entitled “Advancing Clinical Diagnosis with Artificial Intelligence: Applications, Challenges, and Future Directions” is to share information on cutting-edge AI technologies and multimodal medical data analysis. The scope of this Special Issue will include studies on LLMs, AI-enhanced multimodal medical data analysis, IoMT, as well as data security in AI-enhanced diagnostics.

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