

Special Issue

Deep Learning in Medical Imaging: Challenges and Opportunities

Message from the Guest Editor

Deep learning has revolutionized the field of medical imaging, offering unprecedented opportunities to enhance diagnostic accuracy, streamline workflows, and personalize patient care. This Special Issue explores the transformative potential of deep learning in medical imaging, highlighting its applications in areas such as image segmentation, disease detection, and predictive analytics. It also addresses the challenges associated with implementing these technologies, including data scarcity, model interpretability, and integration into clinical practice. Contributions from leading researchers and practitioners showcase innovative approaches to overcoming these barriers, such as transfer learning, federated learning, and explainable AI. By bridging the gap between cutting-edge research and real-world clinical needs, this Special Issue aims to provide a comprehensive overview of the current state and future directions of deep learning in medical imaging, offering valuable insights for researchers, clinicians, and healthcare professionals alike.

Guest Editor

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