Special Issue

Generative AI and Digital Twins in Diagnostics

Message from the Guest Editor

The convergence of digital twins and generative AI represents a ground-breaking frontier in medical research and clinical practice. A digital twin is a dynamic, virtual model of a physical entity such as a patient, organ, or cohort. Typically, such models are created using data from electronic health records, wearable devices, or clinical imaging. This technology offers unprecedented opportunities for personalized medicine, allowing for the precise modeling of individual patient physiology, prediction of disease progression, and tailoring of treatment strategies. Generative AI, with its ability to create new data, simulations, and models, further enhances the potential of digital twins. This technology can accelerate drug discovery, improve diagnostic accuracy, and enable the development of highly personalized therapeutic approaches.

This Special Issue aims to explore the synergy between digital twins and generative AI in medicine, showcasing cutting-edge research, novel applications, and theoretical advancements.

Guest Editor

Dr. Sean Benson

Department of Cardiology, Amsterdam University Medical Centers, 1105 Amsterdam, AZ, The Netherlands

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Diagnostics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
diagnostics@mdpi.com

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Editor-in-Chief

Prof. Dr. Andreas Kjaer
Department of Clinical Physiology, Nuclear Medicine & PET National University Hospital, Rigshospitalet, University of Copenhagen, Blegdamsvej 9, DK-2100 Copenhagen, Denmark

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