

Special Issue

Sensor-Enabled Digital Twins for Healthcare Applications: Unlocking Their Potential

Message from the Guest Editors

Digital twins are digital replications of whole or partial aspects of physical entities. The purpose of these twins is to connect with the physical entities through sensors and data transfer mechanisms to simulate the physical entities' activities. By leveraging present and past information, future progression of entities can be forecasted, enabling informed decision-making to drive them towards desired or optimal future states. This approach has been the classical underlying principle of model-based control engineering for several decades. The rapid advancements in sensor technologies have widened the applications of digital twins in healthcare, transforming sectors such as genomics, aged care, cancer care, and dementia. This Special Issue is a forum that invites the latest developments in such digital twin applications for healthcare. Since digital twins in healthcare is an emerging area, completed research works with evidence, as well as work in progress papers with adequate evidence, will be considered. However, systematic literature reviews and/or scoping reviews are not encouraged and are unlikely to be accepted.

Guest Editors

Prof. Dr. Nilmini Wickramasinghe

Professor & Optus Chair of Digital Health, School of Computing, Engineering and Mathematical Sciences, La Trobe University, Melbourne, VIC 3086, Australia

Dr. Nalika Ulapane

Researcher & Member of the Optus Chair Digital Health Team, School of Computing, Engineering and Mathematical Sciences, La Trobe University, Melbourne, VIC 3086, Australia

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

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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