Special Issue

Explainable AI in Medical Sensors

Message from the Guest Editors

There exist many biomedical sensors, such as ultrasound sensors, chemical analysis sensors, biomaterial sensors, fluid flow sensors, MRI sensors, etc., in current medical research. These medical sensors are being developed with the help of advanced signal processing techniques. Meanwhile, artificial intelligence (AI) has gained recognition for its success in processing sensor data. Most AI models present impressively predictive accuracies, but they are recognized as “black boxes”. This proposal aims to provide diverse but complementary contributions to demonstrate the new developments and applications for explainable AI in processing medical sensor data.

Guest Editors

Prof. Dr. Yu-Dong Zhang

Prof. Dr. Juan Manuel Gorriz

Prof. Dr. Yuankai Huo

Deadline for manuscript submissions

closed (28 February 2023)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/79992

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

mdpi.com/journal/sensors

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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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