



sensors



an Open Access Journal by MDPI

Recent Advances in Continuous Glucose Monitoring Sensors

Guest Editors:

Dr. Martina Vettoretti

Department of Information Engineering, University of Padova, Via G. Gradenigo 6B, 35131 Padova PD, Italy

Dr. Andrea Facchinetti

Department of Information Engineering, University of Padova, Padova, Italy

Prof. Dr. Giovanni Sparacino

Department of Information Engineering, University of Padova, Padova, Italy

Deadline for manuscript submissions:

closed (20 April 2023)

Message from the Guest Editors

In the last 20 years, we have experienced a revolution of glucose monitoring with the introduction of continuous glucose monitoring (CGM) sensors that can measure interstitial glucose concentration almost continuously for several days or weeks. CGM sensors can really be a game changer in the therapy of diabetes (especially type 1 diabetes), because the rich information they provide can be used to improve both patient and clinician decision-making with positive effects on glycemic control.

In this Special Issue, we seek original papers and review papers on the recent advances in CGM sensors, including:

- New CGM technologies (e.g., new sensing technologies);
- New algorithms for improving the analytical performance of CGM sensors (e.g., calibration and filtering algorithms);
- New algorithms to enhance the output of CGM devices (e.g., new algorithms for trend estimation and alert generation).



mdpi.com/si/61530

Special Issue



sensors



an Open Access Journal by MDPI

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

Message from the Editor-in-Chief

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.

Author Benefits

Open Access : free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Instruments & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

Contact Us

Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)