Special Issue

Smart Sensors Applications in Total Joint Arthroplasty

Message from the Guest Editors

Instability following total joint arthroplasty (TJA) has been reported as a major cause for early or delayed revision. Balancing the joint remains an inexact art with no standardized protocol to optimize soft-tissue tension. To address this problem and to make ligament balancing less operator dependent, several advances in technology have been proposed over the past decades. Among the most used are computer-assisted surgery (CAS), patient specific instrumentation (PSI), robotics and intra-operative sensors, which represent very appealing instruments. This special issue of Sensors will host few world experts describing their experience with the use of different sensing technologies during knee. hip and shoulder total joint surgery. It will represent a state of the art textbook for orthopaedic surgeons willing to include the use of sensor technologies

Guest Editors

Prof. Dr. Pier Francesco Indelli

- 1. Institute of Biomechanics, Paracelsus Medical University (PMU), 5020 Salzburg, Austria
- 2. Department of Orthopaedic Surgery, Südtiroler Sanitätsbetrieb, 39042 Brixen, Italy
- 3. Department of Orthopaedic Surgery, Stanford University School of Medicine, Redwood City, CA 94061, USA

Dr. Stefano Bini MD

University California San Francisco (UCSF), USA

Dr. Luigi Sabatini M.D.

Department of Orthopaedics and Traumatology University of Turin, Città della Salute e della Scienza - C.T.O. Hospital via Zuretti 29, 10126 Torino Italy

Deadline for manuscript submissions

closed (30 June 2021)



Sensors

an Open Access Journal by MDPI

Impact Factor 3.5 CiteScore 8.2 Indexed in PubMed



mdpi.com/si/62517

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

mdpi.com/journal/ sensors





Sensors

an Open Access Journal by MDPI

Impact Factor 3.5 CiteScore 8.2 Indexed in PubMed



About the Journal

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.

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

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 and Instrumentation) / CiteScore - Q1 (Instrumentation)

