



Smart Image Sensors

Guest Editors:

Prof. Christophe Bobda

Department of Electrical and
Computer Engineering, University
of Florida, Gainesville, FL 32611-
6200, USA

cbobda@ece.ufl.edu

Prof. Marilyn Wolf

Department of Computer Science
and Engineering, University of
Nebraska-Lincoln, 1400 R Street
Lincoln, NE 68588, USA

mwolf@unl.edu

Prof. Saibal Mukhopadhyay

School of Electrical and
Computer Engineering, Georgia
Institute of Technology, North
Avenue, Atlanta, GA 30332, USA

saibal.mukhopadhyay@
ece.gatech.edu

Deadline for manuscript
submissions:

31 January 2021



mdpi.com/si/36122

Message from the Guest Editors

Dear Colleagues,

Cameras are pervasively used in a wide range of applications, including monitoring and surveillance, crowd analysis, traffic control, precision agriculture, remote sensing, and manufacturing. The goal of this SI is to explore ongoing work aimed at tackling the big data challenge in future imaging applications by pushing computation closer to image sensors and exploit the massive parallel nature of sensor arrays to filter out noisy data early in the capture process and provide only structure data to high-level processing and knowledge inference stages. We are interested in vertically integrated technology, such as focal plane sensor processors (FPSP) and vision sensors that incorporate massively-parallel and possibly hierarchical architecture in the sensor, along with artificial intelligent algorithm to directly infer the scene at the source of data. The following topics are of interest.

- Advanced image sensor architectures
- In-Sensor computation for image processing applications
- Integrated learning and knowledge inference in image sensors
- Technology and fabrication

Prof. Christophe Bobda

Prof. Marilyn Wolf

Prof. Saibal Mukhopadhyay

Guest Editors



Editors-in-Chief

Prof. Dr. Assefa M. Melesse

Dr. Alexander Star

Prof. Dr. Mehmet Rasit Yuce

Prof. Dr. Eduard Llobet

Prof. Dr. Guillermo Villanueva

Dr. Vittorio M.N. Passaro

Dr. Davide Brunelli

Message from the Editorial Board

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 by the [Science Citation Index Expanded](#) (Web of Science), [MEDLINE](#) (PubMed), [Ei Compindex](#), [Inspec \(IET\)](#) and [Scopus](#).

CiteScore (2019 Scopus data): **5.0**; ranked 17/129 (Q1) in 'Physics and Astronomy: Instrumentation' and 147/670 (Q1) in 'Electrical and Electronic Engineering' and 70/300 (Q1) in 'Computer Science: Information Systems'.

Contact Us
