



sensors



an Open Access Journal by MDPI

Recent Advances in Color Filter Arrays and Demosaicing of Color and Multispectral Images

Guest Editor:

Dr. Chiman Kwan

Signal Processing, Inc., Rockville,
MD 20850-3563, USA

Deadline for manuscript
submissions:

closed (31 December 2020)

Message from the Guest Editor

This Special Issue focuses on new developments in digital cameras using various CFAs as well as demosaicing algorithms for color, multispectral, and hyperspectral imagers. The following topics are of interest:

- New sensors/imagers that incorporate various CFAs;
- Optimization of imagers/sensors that incorporate CFAs under diverse lighting conditions;
- Special imagers for foggy, hazy, or turbulent environments;
- New CFA patterns;
- New demosaicing algorithms for color, multispectral, and hyperspectral images;
- New joint denoising and demosaicing algorithms;
- New inpainting algorithms with application to demosaicing;
- New denoising algorithms for improving demosaicing in low lighting conditions.



mdpi.com/si/38919

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 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

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