



sensors



an Open Access Journal by MDPI

UAV Imaging and Sensing

Guest Editors:

Dr. Chinthaka Premachandra

Department of Electronic Engineering, School of Engineering, Shibaura Institute of Technology, Tokyo 135-8548, Japan

Dr. Tomotaka Kimura

Faculty of Science and Engineering, Doshisha University, 1-3 Tataramiyakodani, Kyotanabe-Shi, Kyoto 610-0321, Japan

Dr. Benoit Vozel

Institute of Electronics and Telecommunications IETR UMR CNRS 6164, University of Rennes, 22305 Lannion, France

Deadline for manuscript submissions:

closed (30 November 2022)

Message from the Guest Editors

Aerial sensing/imaging has become a very hot research field with the latest development of UAV and related sensing devices (Optical, multispectral, hyperspectral, thermal, lidar, laser and optical SAR). Due to this UAV and related device development, a wide range of their applications have been utilized in agriculture, transportation, the construction industry, rescue tasks and so on. This Special Issue calls for papers regarding the latest research findings related to UAV-based imaging/sensing and their applications.

Keywords:

- UAV sensing devices
- radiometric and geometric calibration of UAV sensing devices
- AI-based aerial sensing and processing
- aerial big data
- UAV onboard data processing
- aerial image processing
- registering and fusion
- UAV-based image collaborative processing
- UAV camera/sensor networks
- autoflight for sensing/imaging
- aerial object and change detection
- aerial sensing/imaging applications



mdpi.com/si/101601

Special Issue



sensors



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Department of Electrical and
Information Engineering,
Politecnico di Bari, Via Orabona
4, 70126 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 and Instrumentation) / 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](#)