Special Issue

Deep Learning Methods for Aerial Imagery

Message from the Guest Editors

Deep learning methods have grown in popularity and have contributed to dramatic increases in performance in various areas of computer vision and other disciplines. In this Special Issue, we invite authors to contribute papers on deep learning methods for aerial imagery using data from unmanned aerial systems and spaceborne or airborne platforms. Aerial imaging has diverse applications, including but not limited to surveillance, environmental monitoring, smart cities, transportation and urban planning, visual odometry, unmanned aerial system obstacle avoidance, precision agriculture, infrastructure mapping and monitoring, land cover, natural resources, construction, geospatial epidemiology, humanitarian assistance, and disaster relief. Proposed algorithms and methods may consider various sensing modalities—e.g., RGB, panchromatic, thermal, multispectral, hyperspectral, SAR, and LIDAR. We invite authors to submit high-quality manuscripts on computer vision and the image analysis of aerial data contributing novel algorithms, systems, review articles, new datasets, or benchmarking studies.

Guest Editors

Prof. Dr. Andreas Savakis
Rochester Institute of Technology, Rochester, NY, USA

Dr. Erik Blasch
Air Force Office of Scientific Research, Arlington, VA 22203-1768, USA

Prof. Dr. Kannappan Palaniappan
Electrical Engineering and Computer Science Department, University of Missouri, Columbia, MO 65211, USA

Deadline for manuscript submissions

closed (31 January 2025)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/89478

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

mdpi.com/journal/sensors

MDPI

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)