

Special Issue

Techniques and Applications of Sky Imagers

Message from the Guest Editor

The proposed Special Issue is expected to explore the techniques used for the analysis of sky images, covering a variety of applications and identifying the progress and challenges involved in a research field that has been growing so significantly over the last two decades. We are looking for papers on topics including, but not limited to, the following areas:

- Machine learning and deep learning in sky imagers;
- RGB, thermal, multi-channel, and hyperspectral image analysis, image enhancement, and super-resolution techniques;
- 3D and 4D sky image reconstruction and visualization;
- Derivation of aerosol optical properties;
- Advanced techniques for the estimation of cloud properties (e.g. coverage, type, velocity) from sky imagers;
- Solar irradiance/energy resource and forecasting at high temporal and spatial rates;
- Comparison/combination of sky imaging results, satellite-based products, and ground-based measurements;
- Auroral optical structures and meteor patrol;
- Open hardware and software in sky image processing.

Guest Editor

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Deadline for manuscript submissions

closed (30 September 2025)



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About the Journal

Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

Editor-in-Chief

Prof. Dr. Raimondo Schettini

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