

Special Issue

Advanced Image Processing and Computer Vision (2nd Edition)

Message from the Guest Editors

Nowadays, artificial intelligence (AI) permeates our daily activities. Among AI-based algorithms, convolutional neural networks and vision transformers are currently the core technologies for AIP and CV, often combined with recurrent modules or large language models in case of multimodal inputs. Although these AI-based algorithms have achieved remarkable success, the existing technology has promising performance from a data-driven perspective. Thus, novel AI-based algorithms for AIP and CV are urgently needed, especially in those research fields in which data scarcity, data quality and/or data interpretation and understanding are concrete issues. Furthermore, the need for a human-centric AI approach should be highlighted, ensuring that the technology is ethical, explainable and fair. As a prosecution of the successful Special Issue “Advanced Image Processing and Computer Vision”, this 2nd Edition aims to collect original scientific articles, literature reviews and in-depth technical reports on the design, development and/or deployment of AI-based algorithms for AIP and CV in real-world application scenarios, with a particular, though not sole, focus on medical scenarios.

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Deadline for manuscript submissions

closed (28 February 2026)



Computers

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