

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.

Guest Editors

Dr. Selene Tomassini

Department of Information Engineering and Computer Science,
University of Trento, Via Sommarive 9, 38123 Povo, TN, Italy

Dr. M. Ali Akber Dewan

School of Computing and Information Systems, Faculty of Science and
Technology, Athabasca University, Athabasca, AB T9S 3A3, Canada

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Prof. Dr. Paolo Bellavista

Department of Computer Science & Engineering (DISI), University of
Bologna, 40136 Bologna, Italy

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