



an Open Access Journal by MDPI

The Role of Computer Vision in Facilitating Smart Urban Development: Opportunities and Impediments

Guest Editors:

Prof. Dr. Heinz Dieter Fill

1. Department of Computer Science, Cornell University, Ithaca, NY 14853, USA

2. Department of Hydraulics and Sanitation, Technology Sector, Federal University of Paraná, Curitiba 81531-990, Brazil

Dr. Arianna D'Ulizia

National Research Council of Italy, 10135 Rome, Italy

Deadline for manuscript submissions:

20 September 2024

Message from the Guest Editors

Dear Colleagues,

The integration of computer vision technologies into urban environments marks the dawn of a groundbreaking era in smart city innovation. By harnessing the power of advanced imaging and analytics, cities around the world are being transformed into more efficient, sustainable, and livable communities. This Special Issue is dedicated to exploring the cutting-edge applications of computer vision within the smart city paradigm, seeking to illuminate pioneering research, inventive methodologies, and groundbreaking technologies that are propelling urban innovation forward.

Contributions are sought that push the boundaries of current knowledge and practice, including but not limited to:

- Advancements in computer vision algorithms for urban applications;
- Integration of computer vision in urban infrastructure management;
- Computer vision for urban environmental protection and sustainability;
- Enhancing urban safety and security with computer vision;
- Smart transportation systems powered by computer vision;
- Public space and crowd management solutions;
- Impact of computer vision on urban planning and governance.



mdpi.com/si/197874

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us

Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
appls@mdpi.com
[X@Appls](https://twitter.com/appls)