



## Applications of Computer Vision in Automation and Robotics

Guest Editor:

**Prof. Krzysztof Okarma**

Faculty of Electrical Engineering,  
West Pomeranian University of  
Technology, 70-313 Szczecin,  
Poland

Deadline for manuscript  
submissions:

**closed (31 July 2020)**

### Message from the Guest Editor

Dear Colleagues,

This Special Issue on “Applications of Computer Vision in Automation and Robotics” will bring together the research communities interested in computer and machine vision from various departments and universities, focusing on both automation and robotics as well as computer science.

Topics of interest for this Special Issue include but are not limited to the following:

- Video simultaneous localization and mapping (VSLAM) solutions
- Image-based navigation of unmanned aerial vehicles (UAVs) and other mobile robots
- Texture analysis and shape recognition
- Novel image descriptors useful for image-based classification of objects
- Feature extraction and image registration
- Binarization algorithms and binary image analysis
- Fast algorithms useful for embedded solutions, e.g. based on the Monte Carlo method
- No-reference image quality assessment
- Natural image analysis
- Applications of computer vision in autonomous vehicles.



[mdpi.com/si/32757](https://mdpi.com/si/32757)

Dr. Hab. Krzysztof Okarma  
*Guest Editor*

**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 - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

## Contact Us

---

*Applied Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/applsci](http://mdpi.com/journal/applsci)  
[applsci@mdpi.com](mailto:applsci@mdpi.com)  
[X@Applsci](#)