Machine and Computer Vision Methods for Natural Images in Electronics and Interdisciplinary Applications

Guest Editor:

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Message from the Guest Editor

The aim of this Special Issue is to bring together the research communities interested in computer and machine vision from various departments and universities that focus on electronics, automation, and robotics, as well as computer science. Topics of interest for this Special Issue include but are not limited to:

- Novel applications of computer vision in autonomous vehicles, video surveillance, and intelligent transportation systems;
- Quality assessment of natural images;
- Feature extraction and image registration based on novel handcrafted features;
- Machine vision for video simultaneous localization and mapping (VSLAM) solutions;
- Image-based navigation of unmanned aerial vehicles (UAVs) and other mobile robots;
- Binarization and segmentation algorithms of natural images;
- Fast image analysis methods for embedded solutions, e.g., using the Monte Carlo method;
- Natural image analysis for Industry 4.0;
- Exploration of data acquired using various sensors for non-destructive evaluation and diagnostics purposes (e.g., thermovision) using image analysis methods;
- Applications of natural image analysis in industry and agriculture.

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Special Issue

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Message from the Editor-in-Chief

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