



Robotics and AI Inspection under High-Risk Environments

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Message from the Guest Editors

Dear Colleagues,

Robotics technology has been applied in many fields. In high-risk environments, it is of especially great significance to perform inspection tasks using robotics instead of people. With the rapid development of AI technology, such as deep learning, robotics inspection has become more intelligent. Therefore, this Special Issue is intended to present new ideas and experimental results in the field of robotics and AI inspection technology in high-risk environments.

Areas relevant to robotics and AI inspection include, but are not limited to, robotics environment perception, safety hazard/disaster detection, instrument identification and reading, hazardous chemical leakage detection and location, emergency handling, mapping and navigation. This Special Issue will publish high-quality, original research papers, in the following overlapping fields:

- Artificial intelligence, machine learning and deep learning;
- Intelligent analysis, reasoning, decision-making;
- Emergency handling;
- Computer vision;
- Video and image analysis;
- Environmental perception and information fusion;
- Mapping and navigation;
- Neural network;
- Big data processing algorithms and applications.





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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.

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