Special Issue

Emerging Technologies of Accident Analysis and Prevention in Safety Engineering

Message from the Guest Editors

The World Health Organization (WHO) estimates that over 2 million workers die from occupational accidents and work-related diseases every year, whereas 374 million workers suffer from non-fatal occupational accidents. Recent technological advances have allowed industry to be reshaped and concepts such as Industry 4.0, Big Data and Artificial Intelligence to become part of our daily lives. However, how they can improve working conditions and contribute to reducing accidents is not fully addressed. This Special Issue aims to publish papers that study the emerging technologies of accident analysis and accident prevention in safety engineering. Topics of interest include, but are not limited to, the following:

- Occupational risk assessment;
- Occupational risk management;
- Occupational accidents analysis;
- Occupational health and safety;
- Cognitive ergonomics;
- Mental and physical fatigue;
- Training;
- Sensors and monitoring.

Guest Editors

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Deadline for manuscript submissions

20 August 2025

About the Journal

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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