

Special Issue

Occupational Safety Challenges in the Context of Industry 4.0

Message from the Guest Editor

In the context of Industry 4.0, occupational safety faces new challenges with the integration of advanced technologies such as automation, artificial intelligence, robotics, the Internet of Things (IoT), and cyber-physical systems. While these technologies offer significant benefits, they also introduce complex safety risks that must be managed effectively. Some of the key challenges are as follows:

- Human–Machine Interaction
- Cybersecurity Risks
- Data Overload
- Workforce Skills and Adaptation
- Changing Workplace Layouts and Risk Assessment
- Lack of Standardization
- Remote and Autonomous Operations
- Physical and Mental Stress

In short, while Industry 4.0 offers numerous opportunities for increased productivity and innovation, it also introduces unique occupational safety challenges. Addressing these challenges requires a combination of robust safety protocols, continuous training, technology integration, and proactive risk management strategies.

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/safety/special_issues/MOT23PZ3J7

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Message from the Editor-in-Chief

Editor-in-Chief

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