



The Impact of Advanced Robotics and Artificial Intelligence Affects the Safety and Health of Industrial Processes

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Deadline for manuscript
submissions:

closed (31 October 2023)

Message from the Guest Editor

Dear Colleagues,

Advanced robotics and artificial intelligence can influence the safety and health of industrial processes. Artificial-intelligence-based systems and advanced robotics are transforming the way work is designed and performed. These systems, which can be either embedded (e.g., robotics) or non-embedded (e.g., smart apps), can perform actions with some degree of autonomy to perform physical or cognitive tasks and achieve specific goals. This has significant positive implications for business productivity as well as OSH occupational health and safety. For example, workers can be removed from hazardous environments and tasks and workloads can be optimized. These systems can perform repetitive high-risk or non-creative tasks associated with more traditional and emerging OSH risks, leaving workers with low-risk, productive or creative tasks. However, there are several OSH challenges related to the use of these AI-based systems in the workplace, [...]

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