Special Issue

Public Healthcare: AI and Robotics to Empower Medical Tools and Patient Wellbeing

Message from the Guest Editors

In recent years, the healthcare industry has witnessed a remarkable transformation with research on Artificial Intelligence (AI) and Robotics. These technologies are spearheading a new era characterized by precision medicine and personalized care.

The integration of AI and smart devices in healthcare is transforming how medical professionals deliver care and empowering patients. By leveraging wearable devices and monitoring systems, individuals can participate in their own healthcare management.

A recent trend is the exploration of how Large Language Models (LLMs) work alongside Natural Language Processing and other AI-based approaches, allowing robots to learn from human knowledge and enabling people to engage with robots more naturally. In robotics, LLMs facilitate assigning tasks to robots through natural language queries. By integrating vision models and robotics learning techniques, LLMs help robots grasp context and determine actions to fulfil it.

From improved diagnostics to robotic-assisted surgeries and patient engagement, these advancements could revolutionize healthcare, enabling efficient, precise, and patient-centred care.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

IJERPH provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality peer-reviewed journal.

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