

Review of: "Artificial intelligence in the service of health and safety at work: Perspectives and challenges from now to 2035 - A prospective study"

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Potential competing interests: No potential competing interests to declare.

Report on Artificial Intelligence in the Service of Health and Safety at Work: Perspectives and Challenges from Now to 2035 - A Prospective Study. The article is satisfactorily written. Below are a few questions that the authors need to respond to and discuss for further improvement of the article.

- i. How will the integration of AI in occupational health and safety impact the privacy and data security of workers, and what measures will be put in place to address these concerns?
- ii. As AI systems become more prevalent in workplace safety, how will workers be adequately trained to understand and interact with AI technologies, and what measures will be taken to prevent overreliance or misuse of these systems?
- iii. What are the potential socioeconomic implications of widespread AI adoption in workplace safety, and how can we ensure equitable access to AI-driven health and safety technologies across different industries and regions?
- iv. How will AI be leveraged to predict and prevent occupational hazards and accidents in dynamic work environments, and what are the challenges in ensuring the accuracy and reliability of AI-driven risk assessment and prediction models?
- v. How can policy frameworks adapt to ensure responsible and effective deployment of AI technologies in this context?
- vi. How will AI-enabled health monitoring and predictive analytics impact the role of occupational health professionals, and what measures will be taken to ensure collaboration and trust between AI systems and human workers?
- vii. In what ways can AI be utilized to address psychosocial and mental health issues in the workplace, and what are the challenges in integrating AI-driven solutions for holistic workplace health and safety management?
- viii. How can AI support the development of personalized and adaptive safety protocols and training programs tailored to individual worker needs, and what are the challenges in maintaining worker autonomy and agency within AI-driven systems?
- ix. What are the potential long-term societal and cultural implications of AI-driven health and safety practices in the workplace, and how can we proactively address and navigate these changes to ensure positive outcomes for workers and organizations?
- x. Most of the references are old. It is strongly recommended to update the reference list with the most recent and relevant articles from reputable journals, preferably those published between 2020-2024.
- xi. The authors should carefully review and fix the numerous typographical, grammatical, and punctuation errors in the

manuscript.