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Responsible Development of Workplace Safety in the Age of AI

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Introduction and research aim

Focusing on the issue of workplace safety, it was deemed appropriate to
assume that workplace safety is an important aspect of the CSR concept.

Research questions:
1. What are the relationships between workplace safety and CSR?
2. How does the use of AI contribute to improving workplace safety?

Main objectives of the discussion:
To highlight the role of workplace safety in the concept of CSR.
To define the role of AI in the process of shaping workplace safety.

Research methods

To answer the questions posed, this study drew on the existing literatur and employed the case study method, which is a qualitative research method that enables the analysis of a selected entity within its actual organizational environment, allowing for the examination of a given phenomenon under specific conditions.

Results and discussion

Ensuring workplace safety, viewed through the lens of safe working conditions,
is a key area of socially responsible initiatives implemented for the benefit of an organization's employees (Macassa et al., 2021).

Workplace safety is given specific importance in international norms and standards, which serve, on the one hand, as a "guide" for actions taken to realize the concept of social responsibility.

Artificial Intelligence (AI) offers new possibilities, including in the areas of data analysis and risk forecasting. AI can be used, for example, to improve workplace ergonomics, identify factors that pose risks to employees' health and safety in the workplace, and develop training materials on workplace safety.

Conclusions

Ensuring a sense of safety in the workplace in the context of CSR is, in practice, increasingly achieved with the support of AI-based solutions. Automatic hazard identification and the creation of educational materials on workplace safety contribute to greater effectiveness in efforts to improve that
safety.

However, the use of AI is not without its drawbacks, such as the lack of data updates in response to changes in legal regulations.

References

Macassa, G., McGrath, C., Tomaselli, G., i Buttigieg, S. C. (2021). Corporate social
responsibility and internal stakeholders' health and well-being in Europe: a systematic
descriptive review. Health Promotion International, 36(3), 866–883.
https://doi.org/10.1093/heapro/daaa071