

Collaborative Learning Discussion 1

Peer Response - 1

by [Gokul Kurunthasalam](#) - Sunday, 28 August 2022, 3:43 PM

Hi Beatrice Mutegi,

I enjoyed reading your post about I4.0 and the risks associated with it. I'd want to use this opportunity to expand a little bit more on the risks associated with the digitalization of Mechanical I4.0 (Anon, N.D.). A Dutch startup called Mechanical AI provides production-grade AI for commercial operations. The producers can derive value from small or faulty datasets thanks to technology. In order to ensure optimal performance, they have incorporated industry domain knowledge into the AI system. The technology makes it possible to use incomplete manufacturing data for process control and autonomous decision-making. These AI tools also interact with existing assets, enabling more factories to use modern technologies.

It takes great attention to apply AI technologies to the design of public policy decisions, transportation, waste management, policing, and a range of other fields. There is a significant competence risk of conflating public discussion about the goals themselves with efficiency. Public ideals do indeed change as a result of social and political struggle.

Only if the technical and financial risks are viewed as prospective, but avoidable, minimizable, or at the very least something one can be safeguarded against, through risk management (for example, insurance) or restitution, would the public accept and utilize AI technologies. These attitudes will be influenced by how much the public participates in the development of AI technologies, how transparent they are about their workings, and how easily these technologies can be regulated and corrected. An ethical approach to AI might be thought of in this sense as a risk early warning system that could protect entire enterprises.

References:

Anon, N.D.. Top 10 Industry 4.0 Trends & Innovations in 2022. <https://www.startus-insights.com/innovators-guide/top-10-industry-4-0-trends-innovations-in-2021/> [Accessed 28 August 2022].

Zysman, John and Nitzberg, Mark, Governing AI: Understanding the Limits, Possibility, and Risks of AI in an Era of Intelligent Tools and Systems (August 26, 2020). BRIE Working Paper No. 2020-5, Available at SSRN: <https://ssrn.com/abstract=3681088> or <http://dx.doi.org/10.2139/ssrn.3681088>

Floridi, L., Cows, J., Beltrametti, M. et al. AI4People—An Ethical Framework for a Good AI Society: Opportunities, Risks, Principles, and Recommendations. *Minds & Machines* 28, 689–707 (2018). <https://doi.org/10.1007/s11023-018-9482-5>