

Assessment of Requirements and Challenges for the Responsibility Distribution in AI-based Systems from a Management Perspective

Background

Artificially intelligent systems, such as self-driving cars or facial recognition cameras, are no longer a science-fiction fantasy, but their use and operation in real-life scenarios has experienced rapid achievements in the last years. However, the more such technologies turn into business cases, the more urgent becomes the question of who should bear the associated risks and thus responsibility for them, as risks are manifold.

Expected goals

This research's goal is to identify main requirements of businesses for the distribution of risks and responsibilities arising with the use of AI-based systems. Interviews with interest groups from relevant industries should reveal major pain points, as well as business perceptions on responsibility distribution requirements of the user. Conclusions from the stakeholder engagement should help deriving recommendations for risk and responsibility distribution mechanisms on a higher level. First outlooks on how these results can be technically realized are targeted.

The research will be carried out in the form of interviews with relevant stakeholders from industry. General research questions guiding this research are 'What are the requirements of management and other business departments for distributing risks and responsibilities of AI-based systems?' and 'What are major pain points and challenges when distributing risks and responsibilities?'. Tasks will include (1) an overview of implications from relevant legal frameworks, (2) the development of interview questions and preparation of interview guidelines, (3) identification and survey of relevant stakeholders and (4) result analysis and conclusion of recommendations from the interviews findings.

Recommended literature

Borges, G. (2021, June). AI systems and product liability. In *Proceedings of the Eighteenth International Conference on Artificial Intelligence and Law* (pp. 32-39).

European Commission. (2021, April 21). Regulation of the European Parliament and of the Council: Laying down harmonised rules on artificial intelligence (artificial intelligence act) and amending certain Union legislative acts.

Gerlings, J., Shollo, A., & Constantiou, I. (2020). Reviewing the Need for Explainable Artificial Intelligence (xAI). In *Proceedings of the 54th Hawaii International Conference on System Sciences* (pp. 1284-1293).

Contact

If you are interested, please send your CV and transcript of records to Ellen Hohma (ellen.hohma@tum.de).

We are looking forward to your application!