

Opportunities and challenges for leveraging blockchain in the field of open science

Bachelor Thesis, Zhouyue Chen

Open science provides possibilities for a more effective and more transparent form of scientific communication to stimulate further development of scientific research (Bartling & Friesike, 2014; Dhillon, 2016). Blockchain removes the barriers in publishing and acquiring scientific outcomes by opening and tracking scientific datasets, papers, and processes (Bartling, 2017). Extant scientific literature constrains isolated efforts on how blockchain can support open science. The objective of the thesis is to structure the scientific efforts. We answer the research question “*What are the opportunities and challenges for leveraging blockchain in the field of open science?*” We follow the literature review methodology (vom Brocke et al., 2009; Webster & Watson, 2002). We contribute to the scientific literature by structuring the scientific efforts on opportunities and challenges of applying blockchain in the field of open science.

References

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