Universität Bayreuth
Professuren Wirtschaftsinformatik
Prof. Dr. Eymann,
Prof. Dr. Röglinger,
Prof. Dr. Strüker

Ansprechpartner
Benjamin Schellinger

Telefon
+49 921 55 4759

E-Mail
Benjamin.schellinger@uni-bayreuth.de

Bachelorarbeit

Blockchain and Data Protection

Blockchain technology comes with some promising features such as transparency and irrevocability (Zheng et al., 2018). However, the benefits of blockchain are in conflict with the EU-wide General Data Protection Regulation (GDPR), which restricts the promotion of blockchain use cases, thus preventing the full potential of this technology from being realized (Berberich and Steiner, 2016). For example, it remains unclear who is responsible for the control of personal data and thus for their management under the GDPR (Herian, 2018). Furthermore, various current proposed blockchain use cases are not compliant with the so-called “right to erasure” due to its underlying characteristics, e.g., immutability. Thus, the regulation is expected to affect many blockchain use cases in the EU and elsewhere. For this reason, researchers and practitioners are increasingly addressing how GDPR-compliant blockchain solutions may be built. The goal of this thesis is to systematically review the existing literature on the reconciliation of blockchain and GDPR, presenting general approaches of privacy-compliant solutions and workarounds.

Empfohlene Einstiegsliteratur:

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- Rieger, A., Guggenmos, F., Lockl, J., Fridgen, G., and Urbach, N. (2019). Building a Blockchain Application that Complies with the EU General Data Protection Regulation. MIS Quarterly Executive: Vol. 18 : Iss. 4 , Article 7. https://aisel.aisnet.org/misqe/vol18/iss4/7
- Zheng, Z., Xie, S., Dai, H-N., Chen, X. and Wang, H. (2018). Blockchain challenges and opportunities: a survey. Int. J. Web and Grid Services. Vol. 14, No. 4, pp.352–375

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