Ansprechpartner	Telefon	E-Mail
Fabiane Völter	0921/ 55-4761	fabiane.voelter@fim-rc.de

Bachelor Thesis

Blockchain in the Public Sector

Blockchain-based systems are transitioning from small prototypes to mainstream applications. In specific, the usage of blockchain in the public sector has increasingly gained attention in the last few years. In accordance with this transitioning, also the academic literature has addressed plenty of use cases of blockchain technology for the public sector. Those include but are not limited to blockchain-enabled e-voting, digital identities, land registry management, and smart city applications. However, the academic literature on blockchain technology remains scattered: Some researchers propose new applications, some propose advancements thereof, and some focus on the improvement of specific aspects like e.g. security using blockchain technology. Thus, the aim of this thesis is to review existing literature on blockchain technology in the public sector in order to identify existing patterns and provide a holistic view of the literature on blockchain in the public sector. An existing dataset can be used.

Empfohlene Einstiegsliteratur:

- Risius, M., Spohrer, K. A Blockchain Research Framework. *Business Information Systems Engineering* **59,** 385–409 (2017)
- Amend, J., Kaiser, J., Uhlig, L., Urbach, N., Völter, F., What Do We Really Need? A Systematic Literature Review of the Requirements for Blockchain-based E-government Services. *Internationale Tagung Wirtschaftsinformatik 2021 (forthcoming)*.
- Warkentin, M. and Orgeron, C., 2020. Using the security triad to assess blockchain technology in public sector applications. *International Journal of Information Management*

Betreuer: Fabiane Völter, M. Sc.