



Bachelorarbeit / Masterarbeit

Self-Sovereign Identity

Self-Sovereign Identity Management describes the concept of a user-centric identity management consisting of identifiers and attributes of an entity. Identity subjects are supposed to be able to selectively share their attributes as well as “anonymous” claims about these. The proposed advantages include enhanced privacy as well as efficiency. The exact nature of the thesis can be discussed with the supervisor and may include the role of blockchain / DLT for self-sovereign identity, self-sovereign identities for objects, and concrete implementations of respective systems.

Empfohlene Einstiegsliteratur:

- Camenisch, J., & Lysyanskaya, A. (2001, May). An efficient system for non-transferable anonymous credentials with optional anonymity revocation. In *International Conference on the Theory and Applications of Cryptographic Techniques*, pp. 93-118. Springer, Berlin, Heidelberg.
- Mühle, A., Grüner, A., Gayvoronskaya, T., & Meinel, C. (2018). A survey on essential components of a self-sovereign identity. *Computer Science Review*, 30, 80-86.
- Cao, Y., & Yang, L. (2010, December). A survey of identity management technology. In *2010 IEEE International Conference on Information Theory and Information Security*, pp. 287-293. IEEE.

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