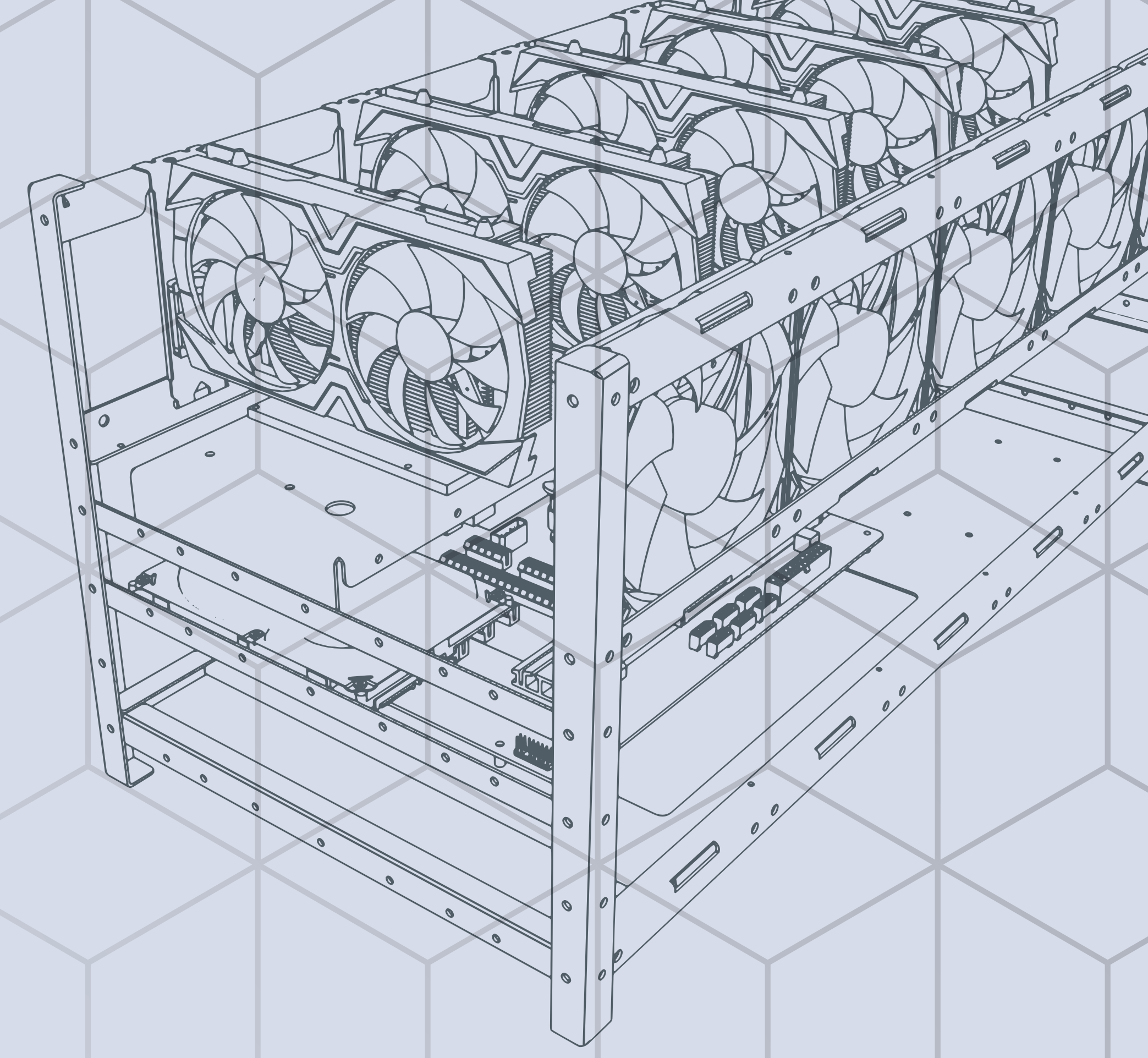


CRYPTOCURRENCIES



BLOCKCHAIN

SCALABILITY

CLARA SCHNEIDEWIND



PROVABLE SECURITY & PRIVACY

$$\begin{aligned} \Gamma \models s_{c^*} :: S \rightarrow^* S' + S &\implies \forall \Delta_I. \alpha_{c^*}([s_{c^*} \\ &\implies \exists \Delta. \Delta_I, \delta(c^*) \vdash \Delta \wedge \alpha_{c^*} \\ \forall (c, c') \in S_s^*. \forall \Delta. \alpha(c) \leq \Delta & \\ \implies \exists \Delta'. \Delta, \Delta \vdash \Delta' \wedge \alpha(c') \leq & \\ \forall s. P(s) \implies \neg \exists s'. \Gamma \models s_{c^*} :: S \rightarrow^* s'_{c^*} :: S \wedge \neg Q(s) & \end{aligned}$$



SMART CONTRACTS

FORMAL VERIFICATION

WOMEN IN IT SECURITY

Clara Schneidewind is a research group leader at the Max Planck Institute for Security and Privacy and PI within the Cluster of Excellence CASA.

In her research, she develops solutions for the meaningful, secure, resource-efficient, and privacy-preserving use of blockchain technologies. One of the main goals of her work is to provide strong theoretical foundations to ensure a high level of reliability in financial processes. She received her PhD from the Technische Universität Wien in 2021.



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