



## **Abschlussvortrag Masterarbeit Muhammad Abdur Rehman Syed**

### „Secure Clock Over The Network“

Many software applications opt for external time sources to fetch reliable time via internet by compromising the precision. Whereas, some use local system time as a source of cost effectiveness and better precision but introduces risk of unreliable time dependency. Time is used for some security verification processes as well which is why it is necessary to ensure that legitimate time is being fetched. Time synchronization protocols are known for providing highly precise time to computer systems with accuracy up to microseconds and lately there is a lot of work being done on security aspects of these protocols. We performed a systematic literature review to explore existing time synchronization protocols and used the knowledge to propose a time synchronization solution for software applications which can help them to fetch reliable and precise time.

Betreuer der Arbeit: Prof. Dr. Mohammad Ghafari, Prof. Dr. Andreas Reinhardt (Institut für Informatik)

Datum: Donnerstag, 17. August 2023, 14:00 Uhr

Ort: Online-Meeting über BBB

Link <https://webconf.tu-clausthal.de/b/muh-ket-yel-wfs>; Code: 216975