



RESEARCH SEMINAR

Towards End-to-End-Encrypted Online Collaboration



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Australia

Date : 2 Apr 2025 (Wed) Time : 2:15 pm - 3:15 pm Venue : N001

Abstract

Despite the pervasiveness of cloud platforms that facilitate outsourced storage and online collaborations such as Github, the basic requirement of end-to-end security is not yet available. As a consequence, we've witnessed many massive scales data breaches, frequently. This is in sharp contrast with communication, that there are long sequences of research and practical systems for end-to-end encrypted messaging available.

In this talk, I will overview the key challenges causing this mismatch, and our recent efforts of providing end-to-end security for cloud storage and Git services with rigorous guarantees, while preserving full compatibility with existing infrastructure, and incurring only minimal overhead.

About the Speaker

Prof. Qiang TANG is currently an Associate Professor at the University of Sydney. From 2016 – 2020, he was an assistant professor at NJIT and Director of JACOBI Blockchain Research Lab. Before joining NJIT, he was a postdoc at Cornell. His research span broadly on cryptography and blockchain. He won several awards such as SOAR Prize, MIT TR35, and a few best paper awards including ASIACRYPT, ICDCS. He was also the program chair of annual public key conference (PKC) 2024.