

Research on formal methods for verifying security protocols

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Abstract: In the context of the increasing risk of cyber attacks on information systems, researching formalization methods and applying security protocol verification is extremely necessary. This project aims to build an automated verification system for security protocols by combining formal theory and experimental techniques. Through the research process, the topic is expected to provide effective solutions to ensure the safety of network systems. This is not only a step forward in enhancing the self-protection capabilities of current protocols but also a significant contribution to the overall development of the information security field.

Keywords: Formalization, Protocol Verification, Network Security, Formal Theory, Experimental Techniques