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Abstract
From cable network to wireless network, the importance of Information Security is growing. The development of communication stimulates the commercial activity and exchanging communication. As it becoming more and more important in our economical society, more and more valuable information exchanged by this system. Hence, we need a more secure mechanism to protect valuable information. Problems that we would encounter in the wireless communication environment include data security, user privacy, computational load, the quality of communication, and transformation secure considerations.
The purpose of this study is to improve those insecure factors that appeared in the wireless communication environment, especially for mutual authentication between the user and servers. To modify the identity authentication problems will abate the crisis, which invader disguising as a user or a server for getting worth information. Secondly, we provide a method to protect user’s information when registering an account and password, while the critical period to reveal personal information. Lastly, we enhance the choices and delivery of the session key to reduce damage once losing session key. Those methods that providing transforming communication security enable users not to worry the reveals on personal information or property.
Advisory Committee Her-Tyan Yeh - advisor

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