

标准模型下多个PKG的基于身份广义签密

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Identity Based Generalized Signcryption Scheme for Multiple PKGs in Standard Model

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摘要

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摘要 广义签密是指除了能实现签密功能,还可单独实现加密和认证功能的密码机制。该文定义了不同PKG环境下基于身份的广义签密方案较为全面的安全模型,并提出一个具体方案,进而在标准模型下证明了方案的安全性。和已有的不同PKG环境下基于身份签密方案相比,文中方案的效率较高,且应用范围更为广泛。

关键词: 基于身份密码 广义签密 不同PKG环境 双线性对 标准模型

Abstract: Generalized signcryption is a cryptographic primitive which could not only realize signcryption but also provide encryption and authentication alone. In this paper, the formal definition and a complete security notion of identity based generalized signcryption for multiple PKGs is defined. A concrete scheme is also proposed with security proof in standard model. Compared with several existing identity based signcryption schemes for multiple PKGs, the new scheme is more efficient and flexible.

Keywords: Identity based cryptosystem Generalized signcryption Multiple PKG environments Bilinear pairings Standard model

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