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Group-oriented ring signature

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Abstract: In this paper, we present an improved Rivest's ring signature scheme. In our scheme, the size of the signature is only related to the ring members, and the signer needs no to publish amount of random numbers. On this basis, we propose a grouporiented ring signature. In this scheme, only the person who belongs to the designated group can verify the validity of the ring signature. The security of these two schemes can be proved by using Forking Lemmas.

Category / Keywords: public-key cryptography / Ring signature, Group, Verification

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