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### 论文

一种改进的冗余序列算法在椭圆曲线密码体制中的实现

郝林,李彤,柳青

云南大学信息学院; 云南大学软件学院; 云南大学软件学院 昆明 650091; 昆明 650091; 昆明 650091 摘要:

为了提高椭圆曲线上点的数乘的运算效率,本文提出了椭圆曲线离散对数(ECDLP)上一种改进的快速冗余算法.算法就文献提出的仟一大的正整数的二进制冗余序列,给出了新的消除了序列转换中不必要的步骤的构建方法,从而使得大数倍乘中加运算得以大大减少.分析表明,新算法的效率较基本算法有明显提高. 关键词:

# A BETTER REDUNDANT BINARY ALGORITHM FOR THE ELLIPTIC CURVES CRYPTOSYSTEM

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Abstract:

For the operational efficiency on the numerical multiplication of points on elliptic curves to be heighten, in this paper, a better fast redundant binary algorithm for the elliptic curves discrete logarithm problem (ECDLP) is presented. A new binary redundant representation which is necessity and suitability to transformation for a very large integer is defined. This algorithm has obtained the speed improvement as compared with the essential one which was presented in the paper by decreasing the addition computing steps.

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