

一种基于 Amold 变换的彩色图像水印算法

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摘要:提出了一种基于彩色图像的新型 LSB 半盲数字水印方案.该方案特点在于通过 Amold 算法置乱水印增强安全性,将彩色图像作为信息隐藏的载体,把处理后的水印信息分别隐藏到载体图像的 R、G、B 三个色彩空间.实验结果表明,该算法不仅提高了水印的嵌入容量,而且对图像剪切、滤波和旋转等攻击具有较好的鲁棒性.

关键词: 数字水印; Amold 变换; 彩色图像

Watermarking in Color Image Based on Amold Transformation

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Abstract: A new semi-blind color image watermarking algorithm based on Amold transformation was proposed, which featured the following characteristics as scrambling the watermark to enhance the security and embedding watermark information into the R, G, B color space according to the embedding algorithm. The experimental results have shown that the algorithm not only improves embedding capacity of watermark, but also robust against various signal processing attacks such as cropping, filtering and rotation.

Key words: digital watermarking; Amold transformation; color image

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