

عنوان مقاله:

A New Colour Image Watermarking Scheme Using Cellular Automata Transform and Schur Decomposition

محل انتشار:

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خلاصه مقاله:

In this work a novel robust colour image watermarking scheme in Cellular Automata Transform (CAT) domain in combination with Schur decomposition is presented. Via different CA bases functions, the CAT domain provides numerous transform patterns, hence it improves the flexibilityand security in data hiding. Furthermore, through Schur decomposition, highly transparency and robustness and also faster procedure in comparison with SVD-based methods is obtained. Moreover to enhance transparency and robustness, the watermark encoded by Error Correcting Code is embeddedin some blocks of host image, selected by Logistic map. The experimental results confirm the .efficiency of the proposed scheme

کلمات کلیدی:

Image Watermarking, Cellular Automata Transform, Schur Decomposition, Logistic Map, Error Correcting Code

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