

Abstract

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a novel hybrid model for fuzzy biometric-based image watermarking

in this paper, a new hybrid fuzzy biometric-based watermarking approach has been introduced for privacy protection and source verification of medical images. concerning privacy protection of patients' medical records, efforts have been devoted to guarantee the confidentiality of data during storage and transmission via an untrustworthy channel. moreover, it can serve for the purpose of copyright protection and authentication of multimedia data. dct based watermarking characteristics are utilized to provide robustness to our system. the performance of the system is verified against two of the recently presented schemes in the literature according to the application domain. several attacks have been applied to the proposed scheme and the experiments revealed promising results in terms of visual quality and extracted watermark distortion.