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### **RESEARCH ARTICLE**

# Watermarking Scheme for Colour Images Using Hidden Markov Model

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*Abstract— Robustness, imperceptibility and high capacity simultaneously is of great importance in digital watermarking. This paper presents a new informed image watermarking scheme with high robustness and simplified complexity at an information rate of 1/64 bit/pixel. This paper uses HMM model for finding exact embedding strength in an image. HMM model in wavelet domain is successfully implemented on gray scale images, this paper extend the same concept for colour images. According to simulation results, this watermarking schema is robust under common attacks like Gaussian noise and compression and rotation attacks.*

*Keywords— Colour images, HMM model, Informed domain, wavelet domain*

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Full Text: <http://www.ijcsmc.com/docs/papers/March2014/V3I3201499.pdf>