In image watermarking, information is embedded into cover media to prove ownership. Various watermarking techniques have been proposed by many authors in the last several years which include spatial domain and transform domain watermarking. Wavelet based image watermarking is gaining more popularity because of its resemblance with the human visual
system. This paper elaborates suitability of wavelet transform for image watermarking, wavelet
transform based image watermarking process, classification and analysis of wavelet based
watermarking techniques. The purpose of this paper is to provide a comprehensive review of
the existing literature available on wavelet based image watermarking methods. It will be useful
for researchers to implement effective image watermarking method.

Reference

- Thi Hoang Ngan Le, Kim Hung Nguyen, Hoai Bac Le, “Literature Survey on Image
  Watermarking Tools, Watermark Attacks, and Benchmarking Tools”, Second IEEE International
- Mr. Manjunatha Prasad R, Dr. Shivaprapakash Koliwad “A Comprehensive Survey of
  Contemporary Researches in Watermarking for Copyright Protection of Digital Images”,
  International Journal of Computer Science and Network Security (IJCNSNS), Vol.9 No.4, April
  2009, pp.91-102.
- Vidyasagar M. Potdar, Song Han, Elizabeth Chang, “A Survey of Digital Image
  Watermarking Techniques”, 3rd IEEE International Conference on Industrial Informatics
  (INDIN), 2005, pp.709-713.
- Santa Agreste, Guido Andaloro, Daniela Prestipino, Luigia Puccio, “An Image Adaptive
  Wavelet Based Watermarking of Digital Images”, Science Direct Journal of Computational and
  Segmentation and DFT”, IEEE International Conference on Information Engineering and
- Chien Chang Chen and De-Sheng Kao, “DCT Based Reversible Image Watermarking
  Approach”, Third IEEE International Conference on Intelligent Information Hiding and
- Said E. El-Khamy, Fellow IEEE, Mona I. Lotfy and Rowayda A. Sadek, “A Block Based
  Wavelet Watermarking Technique for Copyright Protection and Authentication”, IEEE
- B.N. Chatterji, Manesh Kokare, A. Adhipathi Reddy, Rajib Kumar Jha., “Wavelets for
  Content Based Image Retrieval and Digital Watermarking for Multimedia Applications”, IEEE
- F. Kumgollu, A Bouridane, M A Roula and S Boussaktd, “Comparison of Different
  Wavelet Transforms for Fusion Based Watermarking Applications”, IEEE Transactions, Vol.3,
  2003, pp. 1188-1191.
- Barni M, Bartolini F, Piva, “An Improved Wavelet Based Watermarking Through Pixelwise
- Victor V., Guzman, Meana, “Analysis of a Wavelet-based Watermarking Algorithm”, IEEE
  Proceedings of the International Conference on Electronics, Communications and Computer,
- Bo Chen, Hong Shen, “A New Robust-Fragile Double Image Watermarking Algorithm”,


- Ben Wang, Jinkou Ding, Qiaoyan Wen, Xin Liao, Cuixiang Liu, “An Image Watermarking

Index Terms

Computer Science
Security

Key words

Digital Image Watermarking
Discrete Wavelet Transform