A Novel Digital Watermarking Technique based on Feature Attribute Selection using Integer Wavelet Transform Function and ID3 Algorithm

Abstract

Feature extraction and classification based digital water marking is new area of research in current privacy protection and copyright technique. In this area of research various authors used feature extraction technique such as wavelet transform function and for classification purpose used support vector machine. In the process of feature based watermarking technique feature extraction is most important part and the classification depends on selected feature. In this paper proposed novel digital water marking technique based on integer wavelet transform with attribute based classification technique. For the selection of feature attribute used RBF function. The selection of attribute depends on extracted feature by integer wavelet transform. The proposed method simulates in MATLAB software and tested some reputed attack such as noise attack, share attack and translation attack. Our empirical evaluation result shows better performance in compression of DWT water marking technique.

References

- Chih-Chin Lai, Chi-Feng Chan, Chen-Sen Ouyang, Hui-Fen Chiang &quot;A Robust Feature-based Image Watermarking Scheme&quot; 14th ACIS International Conference on
A Novel Digital Watermarking Technique based on Feature Attribute Selection using Integer Wavelet Transform Function and ID3 Algorithm


Index Terms

Computer Science  
Image Processing
Keywords

Digital watermarking  IWT  ID3 RBF network