

DIGITAL WATERMARKING: A SURVEY

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Abstract

The digital revolution, the explosion of communication networks, and the increasingly growing passion of the general public for new information technologies lead to exponential growth of multimedia document traffic (image, text, audio, video, etc.). This phenomenon is now so important that insuring protection and control of the exchanged data has become a major issue. Digital image manipulation software is now readily available on personal computers. It is therefore very simple to tamper with any image and make it available to others. Insuring digital image integrity has therefore become a major issue. Watermark is an important protection and identification technique that allows invisible mark to be placed on top of normal information such as bank note, ID card, magnetic card and valuable documents. Watermarking techniques have been developed to protect digital images against illegal reproduction and illegal modifications when visibility to users is required. This paper conducts a literature survey of digital watermarks used for images. It describes the previous work done on digital watermarks, including the analysis of various watermarking schemes and their potential applications are also discussed.