



Digital Watermarking and Steganography: Fundamentals and Techniques

By Frank Y. Shih

CRC Press/Star Educational Books Distributors, 2007.
Hardcover. Book Condition: New. Every day millions of people capture, store, transmit, and manipulate digital data.

Unfortunately free access digital multimedia communication also provides virtually unprecedented opportunities to pirate copyrighted material. Providing the theoretical background needed to develop and implement advanced techniques and algorithms, Digital Watermarking and Steganography: Demonstrates how to develop and implement methods to guarantee the authenticity of digital media Explains the categorization of digital watermarking techniques based on characteristics as well as applications Presents cutting-edge techniques such as the GA-based breaking algorithm on the frequency-domain steganalytic system The popularity of digital media continues to soar. The theoretical foundation presented within this valuable reference will facilitate the creation on new techniques and algorithms to combat present and potential threats against information security.

Introduction Digital Watermarking Digital Steganography Differences between Watermarking and Steganography A Brief History Appendix: Selected List of Books on Watermarking and Steganography Classification in Digital Watermarking Classification Based on Characteristics Classification Based on Applications Mathematical Preliminaries Least-Significant-Bit Substitution Discrete Fourier Transform (DFT) Discrete Cosine Transform Discrete Wavelet Transform Random Sequence Generation The Chaotic Map Error Correction Code Set

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