Embedded Multimedia Security Systems: Algorithms and Architectures

Amit Pande, Joseph Zambreno

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Embedded Multimedia Security Systems: Algorithms and Architectures Amit Pande, Joseph Zambreno Opening with a detailed review of existing techniques for selective encryption, this text then examines algorithms that combine both encryption and compression. The book also presents a selection of specific examples of the design and implementation of secure embedded multimedia systems. Features: reviews the historical developments and latest techniques in multimedia compression and encryption; discusses an approach to reduce the computational cost of multimedia encryption, while preserving the properties of compressed video; introduces a polymorphic wavelet architecture that can make dynamic resource allocation decisions according to the application requirements; proposes a light-weight multimedia encryption strategy based on a modified discrete wavelet transform; describes a reconfigurable hardware implementation of a chaotic filter bank scheme with enhanced security features; presents an encryption scheme for image and video data based on chaotic arithmetic coding.

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