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Strengthening Security In Spatial Domain Image Steganography

By Thiyagarajan Paramasivan

LAP Lambert Academic Publishing Feb 2018, 2018. Taschenbuch. Condition: Neu. Neuware - The secure transmission of information is the need of the hour in 'Information world'. Cryptography and Information hiding are the techniques which transmit information securely to remote places. Steganography is an information hiding technique where the information to be transmitted is hidden in a digital medium like image, audio or video. This book focuses on the spatial domain image steganography algorithms for 2D and 3D images. In this book, it is discussed how security in spatial domain image steganography are strengthened with the help of dynamic key. Three new algorithms namely Dynamic Pattern based Image Steganography (DPIS), Reversible Dynamic NROI based Steganography algorithm using graph coloring (RDS) and Pattern Based 3D Image Steganography (PBIS-3D) algorithms are discussed in detail. The DPIS, RDS and PBIS-3D algorithms are compared for security parameters with other standard algorithms in the domain. The discussed DPIS algorithm is applied to Internet Banking domain to enhance transaction security and to prevent phishing attack. RDS and PBIS-3D algorithms are applied to medical domain to hide confidential patient record information. 172 pp. Englisch.

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