



Mathematics of Data/Image Coding, Compression, and Encryption IV, with Applications

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Mathematics Of Data Image Coding Compression And Encryption

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techniques developed for classes of images where the general purpose algorithms fail such as for binary images and shapes compound documents remote sensing images medical images and VLSI layout image data Contributed by international experts Document and Image Compression gathers the latest and most important developments in image coding into a single convenient and authoritative source

Frontiers Of Remote Sensing Information Processing Chi Hau Chen, 2003-07-07 Written by leaders in the field of remote sensing information processing this book covers the frontiers of remote sensors especially with effective algorithms for signal image processing and pattern recognition with remote sensing data Sensor and data fusion issues SAR images hyperspectral images and related special topics are also examined Techniques making use of neural networks wavelet transforms and knowledge based systems are emphasized A special set of three chapters is devoted to seismic analysis and discrimination In summary the book provides an authoritative treatment of major topics in remote sensing information processing and defines new frontiers for these areas

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Chaos-based Cryptography Ljupco Kocarev, Shiguo Lian, 2011-06-17 Chaos based cryptography attracting many researchers in the past decade is a research field across two fields i e chaos nonlinear dynamic system and cryptography computer and data security It Chaos properties such as randomness and ergodicity have been proved to be suitable for designing the means for data protection The book gives a thorough description of chaos based cryptography which consists of chaos basic theory chaos properties suitable for cryptography chaos based cryptographic techniques and various secure applications based on chaos Additionally it covers both the latest research results and some open issues or hot topics The book creates a collection of high quality chapters contributed by leading experts in the related fields It embraces a wide variety of aspects of the related subject areas and provide a scientifically and scholarly sound treatment of state of the art techniques to students researchers academics personnel of law enforcement and IT practitioners who are interested or involved in the study research use design and development of techniques related to chaos based cryptography

Data Modeling for Metrology and Testing in Measurement Science Franco Pavese, Alistair B. Forbes, 2008-12-16 The aim of this book is to provide firstly an introduction to probability and statistics especially directed to the metrology and testing elds and secondly a comprehensive newer set of modelling methods for data and uncertainty analysis that are generally not considered yet within mainstream methods The book brings for the rst time a coherent account of these newer me ods and their computational implementation They are potentially important because they address problems in application elds where the usual hypot ses that are at the basis of most of the traditional statistical and probabilistic methods for example relating to normality of the probability distributions are frequently not ful lled to such an extent that an accurate treatment of the calibration or test data using standard approaches is not possible Additi ally the methods can represent alternative ways of data analysis allowing a deeper understanding of complex situations in measurement The book lends itself as a possible textbook for undergraduate or

postgraduate study in an area where existing texts focus mainly on the most common and well known methods that do not encompass modern approaches to calibration and testing problems The book is structured in such a way to guide readers with only a general interest in measurement issues through a series of review papers from an initial introduction to modelling principles in metrology and testing to the basic principles of probability in metrology and statistical approaches to certainty assessment

Handbook of Research on Technologies and Cultural Heritage: Applications and Environments Styliaras, Georgios, Koukopoulos, Dimitrios, Lazarinis, Fotis, 2010-11-30 Handbook of Research on Technologies and Cultural Heritage Applications and Environments covers the many important uses information communication technology in enhancing the experience at cultural environments From museums to archaeological sites to festivals and artistic events to even government institutions and public buildings information communication technology is revolutionizing the way the public participates at and with these cultural sites and this reference source provides both a thorough exploration of this revolution and springboard for future discoveries

Autonomous Systems: Developments and Trends Herwig Unger, Kyandoghere Kyamaky, Janusz Kacprzyk, 2011-11-22 The Workshops on Autonomous Systems emanated from a gathering with the doctoral students of just three chairs at Fernuniversität in Hagen which we organise twice per year for a number of years now Their purpose is to discuss on going research and to create a community spirit Furthermore they serve as a means of structuring the students research processes The workshop has grown and matured in several respects The doctoral students presenting their work do not come from a single university anymore but from three Besides them and their supervisors also other scientists became interested in the event and contribute to its programme Following the model of Advanced Study Institutes they are available on the premises for relaxed informal discussions outside the formal sessions Finally with the co sponsorship of Gesellschaft für Informatik the German Computer Society and this surprisingly comprehensive volume of contributions published by Springer Verlag the workshop turned into a visible scientific event

Handbook of Financial Cryptography and Security Burton Rosenberg, 2010-08-02 The Handbook of Financial Cryptography and Security elucidates the theory and techniques of cryptography and illustrates how to establish and maintain security under the framework of financial cryptography It applies various cryptographic techniques to auctions electronic voting micropayment systems digital rights financial portfolios routing

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