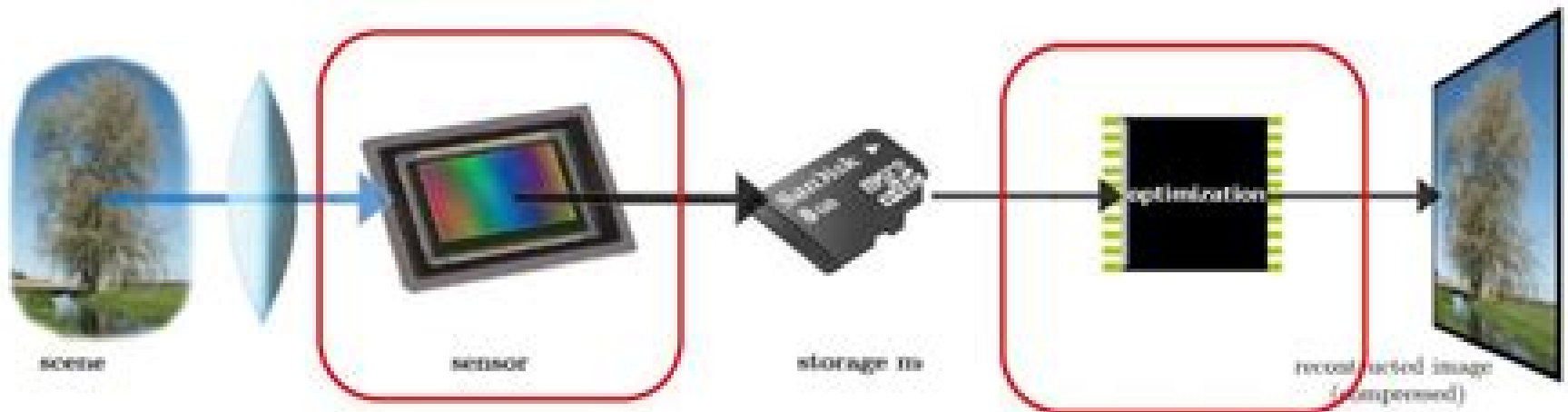
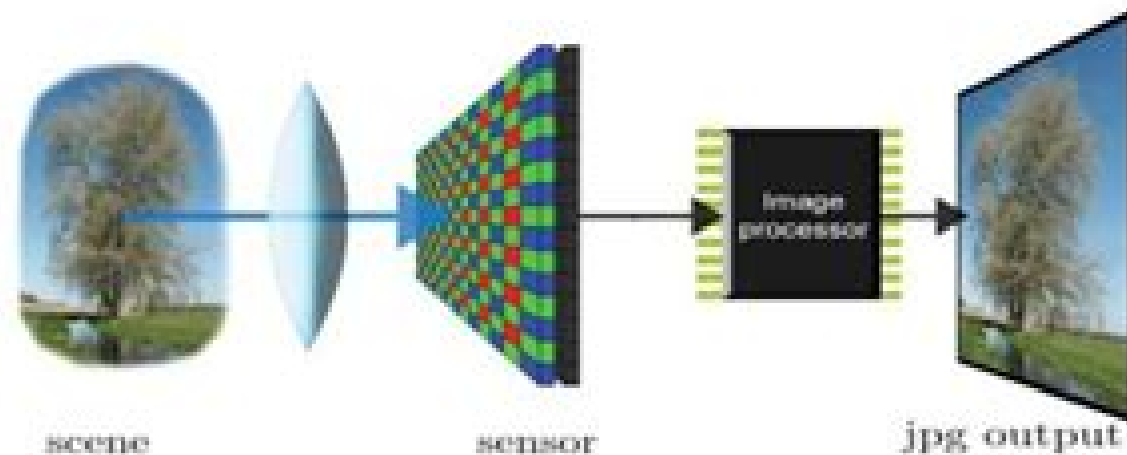


Compressive Sensing: concept and applications



Compressed Sensing Theory And Applications

**Chunfeng Liu, Leizhen Wang, Aimin
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Compressed Sensing and its Applications Holger Boche, Giuseppe Caire, Robert Calderbank, Maximilian März, Gitta Kutyniok, Rudolf Mathar, 2018-01-17 This contributed volume contains articles written by the plenary and invited speakers from the second international MATHEON Workshop 2015 that focus on applications of compressed sensing Article authors address their techniques for solving the problems of compressed sensing as well as connections to related areas like detecting community like structures in graphs curvatures on Grassmannians and randomized tensor train singular value decompositions Some of the novel applications covered include dimensionality reduction information theory random matrices sparse approximation and sparse recovery This book is aimed at both graduate students and researchers in the areas of applied mathematics computer science and engineering as well as other applied scientists exploring the potential applications for the novel methodology of compressed sensing An introduction to the subject of compressed sensing is also provided for researchers interested in the field who are not as familiar with it **Multibiometric Watermarking with**

Compressive Sensing Theory Rohit M. Thanki, Vedvyas J. Dwivedi, Komal R. Borisagar, 2018-01-02 This book presents multibiometric watermarking techniques for security of biometric data This book also covers transform domain multibiometric watermarking techniques and their advantages and limitations The authors have developed novel watermarking techniques with a combination of Compressive Sensing CS theory for the security of biometric data at the system database of the biometric system The authors show how these techniques offer higher robustness authenticity better imperceptibility increased payload capacity and secure biometric watermarks They show how to use the CS theory for the security of biometric watermarks before embedding into the host biometric data The suggested methods may find potential

applications in the security of biometric data at various banking applications access control of laboratories nuclear power stations military base and airports

Compressed Sensing in Information Processing Gitta Kutyniok, Holger Rauhut, Robert J. Kunsch, 2022-10-20 This contributed volume showcases the most significant results obtained from the DFG Priority Program on Compressed Sensing in Information Processing Topics considered revolve around timely aspects of compressed sensing with a special focus on applications including compressed sensing like approaches to deep learning bilinear compressed sensing efficiency structure and robustness structured compressive sensing via neural network learning compressed sensing for massive MIMO and security of future communication and compressive sensing

Sparse Optimization Theory and Methods Yun-Bin Zhao, 2018-07-04 Seeking sparse solutions of underdetermined linear systems is required in many areas of engineering and science such as signal and image processing The efficient sparse representation becomes central in various big or high dimensional data processing yielding fruitful theoretical and realistic results in these fields The mathematical optimization plays a fundamentally important role in the development of these results and acts as the mainstream numerical algorithms for the sparsity seeking problems arising from big data processing compressed sensing statistical learning computer vision and so on This has attracted the interest of many researchers at the interface of engineering mathematics and computer science Sparse Optimization Theory and Methods presents the state of the art in theory and algorithms for signal recovery under the sparsity assumption The up to date uniqueness conditions for the sparsest solution of underdetermined linear systems are described The results for sparse signal recovery under the matrix property called range space property RSP are introduced which is a deep and mild condition for the sparse signal to be recovered by convex optimization methods This framework is generalized to 1 bit compressed sensing leading to a novel sign recovery theory in this area Two efficient sparsity seeking algorithms reweighted l_1 minimization in primal space and the algorithm based on complementary slackness property are presented The theoretical efficiency of these algorithms is rigorously analysed in this book Under the RSP assumption the author also provides a novel and unified stability analysis for several popular optimization methods for sparse signal recovery including l_1 minimization Dantzig selector and LASSO This book incorporates recent development and the author's latest research in the field that have not appeared in other books

Harmonic Analysis and Applications Michael Th. Rassias, 2021-04-01 This edited volume presents state of the art developments in various areas in which Harmonic Analysis is applied Contributions cover a variety of different topics and problems treated such as structure and optimization in computational harmonic analysis sampling and approximation in shift invariant subspaces of L_2 R optimal rank one matrix decomposition the Riemann Hypothesis large sets avoiding rough patterns Hardy Littlewood series Navier Stokes equations sleep dynamics exploration and automatic annotation by combining modern harmonic analysis tools harmonic functions in slabs and half spaces Andoni Krauthgamer Razenshteyn characterization of sketchable norms fails for sketchable metrics random matrix theory multiplicative completion of

redundant systems in Hilbert and Banach function spaces Efforts have been made to ensure that the content of the book constitutes a valuable resource for graduate students as well as senior researchers working on Harmonic Analysis and its various interconnections with related areas

Information Computing and Applications Chunfeng Liu, Leizhen Wang, Aimin Yang, 2012-09-07 This two volume set of CCIS 307 and CCIS 308 constitutes the refereed proceedings of the Third International Conference on Information Computing and Applications ICICA 2012 held in Chengde China in September 2012 The 330 revised full papers presented in both volumes were carefully reviewed and selected from 1089 submissions The papers are organized in topical sections on internet computing and applications multimedia networking and computing intelligent computing and applications computational statistics and applications knowledge management and applications communication technology and applications information management system control engineering and applications business intelligence and applications cloud and evolutionary computing computational genomics and proteomics engineering management and applications

Compressed Sensing Gitta Kutyniok, Yonina Eldar, 2012 Compressed sensing is an exciting rapidly growing field attracting considerable attention in electrical engineering applied mathematics statistics and computer science This book provides the first detailed introduction to the subject highlighting recent theoretical advances and a range of applications as well as outlining numerous remaining research challenges After a thorough review of the basic theory many cutting edge techniques are presented including advanced signal modeling sub Nyquist sampling of analog signals non asymptotic analysis of random matrices adaptive sensing greedy algorithms and use of graphical models All chapters are written by leading researchers in the field and consistent style and notation are utilized throughout Key background information and clear definitions make this an ideal resource for researchers graduate students and practitioners wanting to join this exciting research area It can also serve as a supplementary textbook for courses on computer vision coding theory signal processing image processing and algorithms for efficient data processing

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