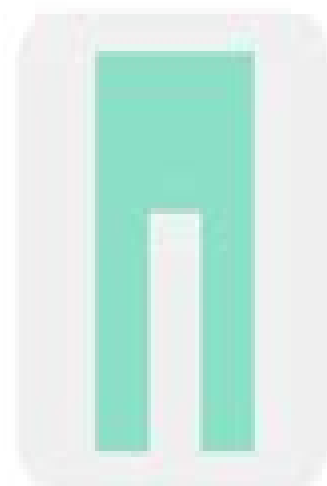


chhshen/DCT-Tracking



Matlab code for the paper "Incremental learning of 3D-DCT compact representations for robust visual tracking. X. Li, A. Dick, C....

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Ying-Ying Zheng



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Data Fusion Mathematics Jitendra R. Raol, S. Sethu Selvi, Sudesh K. Kashyap, Ailneni Sanketh, 2025-06-30 Data Fusion Mathematics Theory and Practice offers a comprehensive overview of data fusion DF and provides a proper and adequate understanding of the basic mathematics directly related to DF This new edition offers updated chapters alongside four new chapters that are based on recent research carried out by the authors including topics on machine learning techniques target localization using a network of 2D ground radar thermal imaging sensors for multi target angle only tracking and multi sensor data fusion for a single platform and team platforms This book also covers major mathematical expressions formulae and equations and where feasible their derivations It discusses signed distance function concepts DF models and architectures aspects and methods of types 1 and 2 fuzzy logics and related practical applications In addition the authors cover soft computing paradigms that are finding increasing applications in multi sensory DF approaches and applications This text is geared toward researchers scientists teachers and practicing engineers interested in and working in the multi sensor data fusion area Random Signal Processing Shaila Dinkar Apte, 2017-08-15 This book covers random signals and random processes along with estimation of probability density function estimation of energy spectral density and power spectral density The properties of random processes and signal modelling are discussed with basic communication theory estimation and detection MATLAB simulations are included for each concept with output of the program with case studies and project ideas The chapters progressively introduce and explain the concepts of random signals and cover multiple applications for signal processing The book is designed to cater to a wide audience starting from the undergraduates electronics electrical instrumentation computer and telecommunication engineering to the researchers working in the pertinent fields Key Features Aimed at random signal processing with parametric signal processing using appropriate segment size Covers speech image medical images EEG and ECG signal processing Reviews optimal detection and estimation Discusses parametric modeling and signal processing in transform domain Includes MATLAB codes and relevant exercises case studies and solved examples including multiple choice questions Handbook of Image and Video Processing Alan C. Bovik, 2010-07-21 55% new material in the latest edition of this must have for students and practitioners of image video processing This Handbook is intended to serve as the basic reference point on image and video processing in the field in the research laboratory and in the classroom Each chapter has been written by carefully selected distinguished experts specializing in that topic and carefully reviewed by the Editor Al Bovik ensuring that the greatest depth of understanding be communicated to the reader Coverage includes introductory intermediate and advanced topics and as such this book serves equally well as classroom textbook as reference resource Provides practicing engineers and students with a highly accessible resource for learning and using image video processing theory and algorithms Includes a new chapter on image processing education which should prove invaluable for those developing or modifying their curricula Covers the various image and

video processing standards that exist and are emerging driving today's explosive industry. Offers an understanding of what images are how they are modeled and gives an introduction to how they are perceived. Introduces the necessary practical background to allow engineering students to acquire and process their own digital image or video data. Culminates with a diverse set of applications chapters covered in sufficient depth to serve as extensible models to the reader's own potential applications.

About the Editor: Al Bovik is the Cullen Trust for Higher Education Endowed Professor at The University of Texas at Austin where he is the Director of the Laboratory for Image and Video Engineering LIVE. He has published over 400 technical articles in the general area of image and video processing and holds two U.S. patents. Dr. Bovik was Distinguished Lecturer of the IEEE Signal Processing Society 2000, received the IEEE Signal Processing Society Meritorious Service Award 1998, the IEEE Third Millennium Medal 2000, and twice was a two-time Honorable Mention winner of the international Pattern Recognition Society Award. He is a Fellow of the IEEE, was Editor in Chief of the IEEE Transactions on Image Processing 1996-2002, has served on and continues to serve on many other professional boards and panels, and was the Founding General Chairman of the IEEE International Conference on Image Processing which was held in Austin, Texas in 1994. No other resource for image and video processing contains the same breadth of up-to-date coverage. Each chapter written by one or several of the top experts working in that area. Includes all essential mathematics, techniques, and algorithms for every type of image and video processing used by electrical engineers, computer scientists, internet developers, bioengineers, and scientists in various image-intensive disciplines.

Uncoded Multimedia Transmission Feng Wu, Chong Luo, Hancheng Lu, 2021-07-18. An uncoded multimedia transmission (UMT) system is one that skips quantization and entropy coding in compression and all subsequent binary operations including channel coding and bit-to-symbol mapping of modulation. By directly transmitting non-binary symbols with amplitude modulation, the uncoded system avoids the annoying cliff effect observed in the coded transmission system. This advantage makes uncoded transmission more suited to both unicast in varying channel conditions and multicast to heterogeneous users. Particularly in the first part of *Uncoded Multimedia Transmission*, we consider how to improve the efficiency of uncoded transmission and make it on par with coded transmission. We then address issues and challenges regarding how to better utilize temporal and spatial correlation of images and video in the uncoded transmission to achieve the optimal transmission performance. Next, we investigate the resource allocation problem for uncoded transmission, including subchannel bandwidth and power allocation. By properly allocating these resources, uncoded transmission can achieve higher efficiency and more robust performance. Subsequently, we consider the image and video delivery in MIMO broadcasting networks with diverse channel quality and varying numbers of antennas across receivers. Finally, we investigate the cases where uncoded transmission can be used in conjunction with digital transmission for a balanced efficiency and adaptation capability. This book is the very first monograph in the general area of uncoded multimedia transmission, written in a self-contained format. It addresses both the fundamentals and the

applications of uncoded transmission It gives a systematic introduction to the fundamental theory and concepts in this field and at the same time also presents specific applications that reveal the great potential and impacts for the technologies generated from the research in this field By concentrating several important studies and developments currently taking place in the field of uncoded transmission in a single source this book can reduce the time and cost required to learn and improve skills and knowledge in the field The authors have been actively working in this field for years and this book is the final essence of their years of long research in this field The book may be used as a collection of research notes for researchers in this field a reference book for practitioners or engineers as well as a textbook for a graduate advanced seminar in this field or any related fields The references collected in this book may be used as further reading lists or references for the readers

Hybrid Encryption Algorithms over Wireless Communication Channels Mai Helmy Shaheen, 2021-03-04 This book presents novel hybrid encryption algorithms that possess many different characteristics In particular Hybrid Encryption Algorithms over Wireless Communication Channels examines encrypted image and video data for the purpose of secure wireless communications A study of two different families of encryption schemes are introduced namely permutation based and diffusion based schemes The objective of the book is to help the reader selecting the best suited scheme for the transmission of encrypted images and videos over wireless communications channels with the aid of encryption and decryption quality metrics This is achieved by applying number theory based encryption algorithms such as chaotic theory with different modes of operations the Advanced Encryption Standard AES and the RC6 in a pre processing step in order to achieve the required permutation and diffusion The Rubik s cube is used afterwards in order to maximize the number of permutations Transmission of images and videos is vital in today s communications systems Hence an effective encryption and modulation schemes are a must The author adopts Orthogonal Frequency Division Multiplexing OFDM as the multicarrier transmission choice for wideband communications For completeness the author addresses the sensitivity of the encrypted data to the wireless channel impairments and the effect of channel equalization on the received images and videos quality Complete simulation experiments with MATLAB codes are included The book will help the reader obtain the required understanding for selecting the suitable encryption method that best fulfills the application requirements *Science Abstracts* ,1995 *Index to IEEE Publications* Institute of Electrical and Electronics Engineers,1996 [Internet Imaging](#) ,2000 [The Engineering Index Annual](#) ,1992 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current awareness new production information technological forecasting and competitive intelligence The world s most comprehensive interdisciplinary engineering database Engineering Index contains over 10 7 million records Each year over 500 000 new abstracts are added from over 5 000 scholarly journals trade magazines and conference proceedings Coverage spans over 175 engineering disciplines from

over 80 countries Updated weekly
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Novel 3D DCT/IDCT Architectures for Coding of Integral 3D Images Isa Jallow, 2003
Digital Image Fundamentals in MATLAB Mohammad Nuruzzaman,

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