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Matti Pietikäinen
Guoying Zhao
Abdenour Hadid
Timo Ahonen

Computer Vision Using Local Binary Patterns

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G.R. Sinha

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Hybrid Intelligence for Image Analysis and Understanding Siddhartha Bhattacharyya,Indrajit Pan,Anirban Mukherjee,Paramartha Dutta,2017-07-27 A synergy of techniques on hybrid intelligence for real life image analysis Hybrid Intelligence for Image Analysis and Understanding brings together research on the latest results and progress in the development of hybrid intelligent techniques for faithful image analysis and understanding As such the focus is on the methods of computational intelligence with an emphasis on hybrid intelligent methods applied to image analysis and understanding The book offers a diverse range of hybrid intelligence techniques under the umbrellas of image thresholding image segmentation image analysis and video analysis Key features Provides in depth analysis of hybrid intelligent paradigms Divided into self contained chapters Provides ample case studies illustrations and photographs of real life examples to illustrate findings and applications of different hybrid intelligent paradigms Offers new solutions to recent problems in computer science specifically in the application of hybrid intelligent techniques for image analysis and understanding using well known contemporary algorithms The book is essential reading for lecturers researchers and graduate students in electrical engineering and computer science *Computer Vision Using Local Binary Patterns* Matti Pietikäinen,Abdenour Hadid,Guoying Zhao,Timo Ahonen,2011-06-21 The recent emergence of Local Binary Patterns LBP has led to significant progress in applying texture methods to various computer vision problems and applications The focus of this research has broadened from 2D textures to 3D textures and spatiotemporal dynamic textures Also where texture was once utilized for applications such as remote sensing industrial inspection and biomedical image analysis the introduction of LBP based approaches have provided outstanding results in problems relating to face and activity analysis with future scope for face and facial expression recognition biometrics visual surveillance and video analysis Computer Vision Using Local Binary Patterns provides a detailed description of the LBP methods and their variants both in spatial and spatiotemporal domains This comprehensive reference also provides an excellent overview as to how texture methods can be utilized for solving different kinds of computer vision and image analysis problems Source codes of the basic LBP algorithms demonstrations some databases and a comprehensive LBP bibliography can be found from an accompanying web site Topics include local binary patterns and their variants in spatial and spatiotemporal domains texture classification and segmentation description of interest regions applications in image retrieval and 3D recognition Recognition and segmentation of dynamic textures background subtraction recognition of actions face analysis using still images and image sequences visual speech recognition and LBP in various applications Written by pioneers of LBP this book is an essential resource for researchers professional engineers and graduate students in computer vision image analysis and pattern recognition The book will also be of interest to all those who work with specific applications of machine vision **Advances in Biometrics** G.R. Sinha,2019-12-13 This book provides a framework for robust and novel biometric techniques along with implementation and design strategies The

theory principles pragmatic and modern methods and future directions of biometrics are presented along with in depth coverage of biometric applications in driverless cars automated and AI based systems IoT and wearable devices Additional coverage includes computer vision and pattern recognition cybersecurity cognitive computing soft biometrics and the social impact of biometric technology The book will be a valuable reference for researchers faculty and practicing professionals working in biometrics and related fields such as image processing computer vision and artificial intelligence Highlights robust and novel biometrics techniques Provides implementation strategies and future research directions in the field of biometrics Includes case studies and emerging applications **Handbook of Pattern Recognition & Computer Vision** Chi-hau Chen,1995 **RoLoD: Robust Local Descriptors for Computer Vision 2014** ,2016 *Handbook Of Pattern Recognition And Computer Vision (6th Edition)* Chi Hau Chen,2020-04-04 Written by world renowned authors this unique compendium presents the most updated progress in pattern recognition and computer vision PRCV fully reflecting the strong international research interests in the artificial intelligence arena Machine learning has been the key to current developments in PRCV This useful comprehensive volume complements the previous five editions of the book It places great emphasis on the use of deep learning in many aspects of PRCV applications not readily available in other reference text

Handbook Of Pattern Recognition And Computer Vision Patrick S P Wang,1993-08-31 Pattern recognition and computer vision and their applications have experienced enormous progress in research and development over the last two decades This comprehensive handbook with chapters by leading experts in their fields documents both the basics and new and advanced results The book gives the most total treatment of basic methods in pattern recognition including statistical neurocomputing syntactic structural grammatical approaches feature selection and cluster analysis and an extensive presentation of basic methods in computer vision including texture analysis and models color geometrical tools image sequence analysis etc Major and unique applications are also covered such as food handling using computer vision non destructive evaluation of materials applications in economics and business medical image recognition and understanding etc Broader system aspects are also examined including optical pattern recognition and architectures for computer vision Researchers students and users of pattern recognition and computer vision will find the book an essential reference tool The volume is also an invaluable collection of basic techniques and principles which would otherwise be hard to assemble in one convenient volume **Handbook of Pattern Recognition and Computer Vision** Chi-hau Chen,2010 Both pattern recognition and computer vision have experienced rapid progress in the last twenty five years This book provides the latest advances on pattern recognition and computer vision along with their many applications It features articles written by renowned leaders in the field while topics are presented in readable form to a wide range of readers The book is divided into five parts basic methods in pattern recognition basic methods in computer vision and image processing recognition applications life science and human identification and systems and technology There are eight new chapters on the latest

developments in life sciences using pattern recognition as well as two new chapters on pattern recognition in remote sensing

Handbook of Pattern Recognition and Computer Vision C. H. Chen,L. F. Pau,P. S. Wang,1993-08 The book provides an up to date and authoritative treatment of pattern recognition and computer vision with chapters written by leaders in the field On the basic methods in pattern recognition and computer vision topics range from statistical pattern recognition to array grammars to projective geometry to skeletonization and shape and texture measures BOOK JACKET **Shadows and Silhouettes in Computer Vision** S.A. Shafer,2013-01-11 Computer Vision and Pattern Recognition ,1988

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