Computational Imaging and Vision 40

Matti Pietikäinen
Guoying Zhao
Abdenour Hadid
Timo Ahonen

Computer Vision Using Local Binary Patterns

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Computer Vision Using Local Binary Patterns Computational Imaging And Vision:

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 **Local Binary Patterns: New Variants and Applications** Sheryl Brahnam,Lakhmi C. Jain,Loris Nanni,Alessandra Lumini,2013-09-01 This book introduces Local Binary Patterns LBP arguably one of the most powerful texture descriptors and LBP variants This volume provides the latest reviews of the literature and a presentation of some of the best LBP variants by researchers at the forefront of textual analysis research and research on LBP descriptors and variants The value of LBP variants is illustrated with reported experiments using many databases representing a diversity of computer vision applications in medicine biometrics and other areas There is also a chapter that provides an excellent theoretical foundation for texture analysis and LBP in particular A special section focuses on LBP and LBP variants in the area of face recognition including thermal face recognition This book will be of value to anyone already in the field as well as to those interested in learning more about this powerful family of texture descriptors **Beyond Databases, Architectures and Structures. Towards Efficient Solutions for Data Analysis and Knowledge Representation** Stanisław Kozielski,Dariusz Mrozek,Paweł Kasprowski,Bożena Małysiak-Mrozek,Daniel Kostrzewa,2017-05-16 This book constitutes the refereed proceedings of the 13th International Conference entitled Beyond Databases Architectures and Structures BDAS 2017 held in Ustro Poland in May June 2017 It consists of 44 carefully reviewed papers selected from 118

submissions The papers are organized in topical sections namely big data and cloud computing artificial intelligence data mining and knowledge discovery architectures structures and algorithms for efficient data processing text mining natural language processing ontologies and semantic web bioinformatics and biological data analysis industrial applications data mining tools optimization and compression *Image Analysis and Recognition* Aurélio Campilho,Fakhri Karray,2016-06-30 This book constitutes the thoroughly refereed proceedings of the 13th International Conference on Image Analysis and Recognition ICIAR 2016 held in P voa de Varzim Portugal in July 2016 The 79 revised full papers and 10 short papers presented were carefully reviewed and selected from 167 submissions The papers are organized in the following topical sections Advances in Data Analytics and Pattern Recognition with Applications Image Enhancement and Restoration Image Quality Assessment Image Segmentation Pattern Analysis and Recognition Feature Extraction Detection and Recognition Matching Motion and Tracking 3D Computer Vision RGB D Camera Applications Visual Perception in Robotics Biometrics Biomedical Imaging Brain Imaging Cardiovascular Image Analysis Image Analysis in Ophthalmology Document Analysis Applications and Obituaries The chapter Morphological Separation of Clustered Nuclei in Histological Images is published open access under a CC BY 4 0 license at link springer com **Image Processing And Analysis: A Primer** Georgy Gimel'farb,Patrice Delmas,2018-08-24 This textbook guides readers through their first steps into the challenging world of mimicking human vision with computational tools and techniques pertaining to the field of image processing and analysis While today s theoretical and applied processing and analysis of images meet with challenging and complex problems this primer is confined to a much simpler albeit critical collection of image to image transformations including image normalisation enhancement and filtering It serves as an introduction to beginners a refresher for undergraduate and graduate students as well as engineers and computer scientists confronted with a problem to solve in computer vision The book covers basic image processing computer vision pipeline techniques which are widely used in today s computer vision computer graphics and image processing giving the readers enough knowledge to successfully tackle a wide range of applied problems **Genetic and Evolutionary Computing** Jerry Chun-Wei Lin,Jeng-Shyang Pan,Shu-Chuan Chu,Chien-Ming Chen,2017-10-16 This volume of Advances in Intelligent Systems and Computing highlights papers presented at the 11th International Conference on Genetic and Evolutionary Computing ICGEC 2017 Held from 6 to 8 November 2017 in Kaohsiung Taiwan the conference was co sponsored by Springer Fujian University of Technology in China National University of Kaohsiung Harbin Institute of Technology National Kaohsiung University of Applied Sciences and V B Technical University of Ostrava The conference was intended as an international forum for researchers and professionals engaged in all areas of genetic computing intelligent computing evolutionary and grid computing **The 1st International Conference on Advanced Intelligent System and Informatics (AISI2015), November 28-30, 2015, Beni Suef, Egypt** Tarek Gaber,Aboul Ella Hassanien,Nashwa El-Bendary,Nilanjan Dey,2015-11-09 The conference topics address different theoretical

and practical aspects and implementing solutions for intelligent systems and informatics disciplines including bioinformatics computer science medical informatics biology social studies as well as robotics research The conference also discuss and present solutions to the cloud computing and big data mining which are considered hot research topics The conference papers discussed different topics techniques models methods architectures as well as multi aspect domain specific and new solutions for the above disciplines The accepted papers have been grouped into five parts Part I Intelligent Systems and Informatics addressing topics including but not limited to medical application predicting student performance action classification and detection of dead stained microscopic cells optical character recognition plant identification rehabilitation of disabled people Part II Hybrid Intelligent Systems addressing topics including but not limited to EMG signals text classification geomagnetic inverse problem email filtering Part III Multimedia Computing and Social Networks addressing topics including but not limited to augmented reality telepresence robot video flash matting community detection quality images face thermal image extraction MRI tumor segmentation Part V Cloud Computing and Big Data Mining discussing topics including but not limited to mining on microblogs query optimization big data classification access control friendsourcing and assistive technology Part VI Swarm Optimization and Its Applications addressing topics including but not limited to solving set covering problem adaptive PSO for CT liver segmentation water quality assessment attribute reduction fish detection solving manufacturing cell design problem *Proceedings of 3rd International Conference on Advanced Computing, Networking and Informatics* Atulya Nagar,Durga Prasad Mohapatra,Nabendu Chaki,2015-10-07 Advanced Computing Networking and Informatics are three distinct and mutually exclusive disciplines of knowledge with no apparent sharing overlap among them However their convergence is observed in many real world applications including cyber security internet banking healthcare sensor networks cognitive radio pervasive computing amidst many others This two volume proceedings explore the combined use of Advanced Computing and Informatics in the next generation wireless networks and security signal and image processing ontology and human computer interfaces HCI The two volumes together include 132 scholarly articles which have been accepted for presentation from over 550 submissions in the Third International Conference on Advanced Computing Networking and Informatics 2015 held in Bhubaneswar India during June 23 25 2015

Context-Aware Systems and Applications Phan Cong Vinh,Vangalur Alagar,Emil Vassev,Ashish Khare,2014-04-09 This book constitutes the thoroughly refereed proceedings of the Second International Conference on Context Aware Systems and Applications ICCASA 2013 held in Phu Quoc Island Vietnam in November 2013 The 36 revised full papers presented were carefully selected and reviewed from over 100 submissions and cover a wide spectrum of issues in the area of context aware systems CAS and context based recommendation systems Artificial Intelligence and Mobile Services – AIMS 2019 De Wang,Liang-Jie Zhang,2019-06-19 This book constitutes the proceedings of the 8th International Conference on Artificial Intelligence and Mobile Services AIMS 2019 held as part of SCF 2019 in San Diego CA USA in June 2019 The 12 full papers

and one short paper presented were carefully reviewed and selected from 29 submissions The papers cover different aspects of mobile services from business management to computing systems algorithms and applications They promote technological technological innovations in research and development of mobile services including but not limited to wireless and sensor networks mobile and wearable computing mobile enterprise and eCommerce ubiquitous collaborative and social services machine to machine and Internet of things clouds cyber physical integration and big data analytics for mobility enabled services Intelligent Robots and Computer Vision ,2000 **Computer Vision - ACCV ...** ,1998 **Image Analysis** ,2005 Computer Vision - ACCV 2012 Workshops Jong-Il Park,Junmo Kim,2013-03-27 The two volume set consisting of LNCS 7728 and 7729 contains the carefully reviewed and selected papers presented at the nine workshops that were held in conjunction with the 11th Asian Conference on Computer Vision ACCV 2012 in Daejeon South Korea in November 2012 From a total of 310 papers submitted 78 were selected for presentation LNCS 7728 contains the papers selected for the International Workshop on Computer Vision with Local Binary Pattern Variants the Workshop on Computational Photography and Low Level Vision the Workshop on Developer Centered Computer Vision and the Workshop on Background Models Challenge LNCS 7729 contains the papers selected for the Workshop on e Heritage the Workshop on Color Depth Fusion in Computer Vision the Workshop on Face Analysis the Workshop on Detection and Tracking in Challenging Environments and the International Workshop on Intelligent Mobile Vision Pattern Recognition and Image Analysis ,2003 *Sci-tech News* ,1998 **Transactions of the ASAE.** American Society of Agricultural Engineers,1988 **Proceedings** ,2002

Advances in Digital and Computational Geometry Reinhard Klette,Azriel Rosenfeld,Fridrich Sloboda,1998-09 Digital geometry deals with geometric properties of subsets of digital images or equivalently with geometric properties of finite sets of lattice points Digital geometry can anticipate progress in imaging technology allowing higher and higher spatial resolution It seems that the input data in both fields will converge to data embedded in digital arrays of very high spatial resolution

Artificial Intelligence Abstracts ,1991

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