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# Adaptive Color Contrast Enhancement For Digital Images

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Proceedings of Third International Conference INDIA 2016, Volume 3

Fuzzy Systems and Data Mining III

Systems and Computer Technology

Methods and Applications

Proceedings of IC4S 2017, Volume 2

Advances in Neural Networks - ISNN 2017

Soft Computing Based Medical Image Analysis

Advanced Machine Learning Approaches in Cancer Prognosis

Challenges and Applications

Proceedings of FSDM 2017

Visualization in Medicine and Life Sciences III

7th International Conference, ICIAR 2010, Póvoa de Varzin, Portugal, June 21-23, 2010, Proceedings, Part I

Image Analysis and Recognition

Models and Methods for Image Processing

Internet Multimedia Computing and Service

Data Mining

9th International Conference, ICIMCS 2017, Qingdao, China, August 23-25, 2017, Revised Selected Papers

14th International Symposium, ISNN 2017, Sapporo, Hakodate, and Muroran, Hokkaido, Japan, June 21-26, 2017, Proceedings, Part II

TEHI 2021

World Congress on Medical Physics and Biomedical Engineering May 26-31, 2012, Beijing, China

Visual Information and Information Systems

Second International Conference, ICACDS 2018, Dehradun, India, April 20-21, 2018, Revised Selected Papers, Part I

Computational Photography

11th International Conference, ICIG 2021, Haikou, China, August 6-8, 2021, Proceedings, Part III

Information Technology and Mobile Communication

Digital Image Processing and Analysis

5th Indian Conference, ICVGIP 2006, Madurai, India, December 13-16, 2006, Proceedings  
ICMC 2021  
Advances in Computing and Data Sciences  
Proceedings of ICSICCS 2020  
Inventive Communication and Computational Technologies  
Human and Computer Vision Applications with CVIPtools, Second Edition  
Smart Innovations in Communication and Computational Sciences  
Proceedings of the 22nd Engineering Applications of Neural Networks Conference  
Principles, Algorithm, Applications, and Perspectives  
Computer and Cyber Security  
Intelligent Multimedia Data Analysis  
Proceedings of ICICCT 2020  
ERCICA 2020

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## **MCKENZIE GATES**

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*Proceedings of Third International  
Conference INDIA 2016, Volume 3* Springer  
Computational photography refers broadly  
to imaging techniques that enhance or  
extend the capabilities of digital  
photography. This new and rapidly  
developing research field has evolved  
from computer vision, image processing,  
computer graphics and applied  
optics—and numerous commercial

products capitalizing on its principles have  
already appeared in diverse market  
applications, due to the gradual migration  
of computational algorithms from  
computers to imaging devices and  
software. Computational Photography:  
Methods and Applications provides a  
strong, fundamental understanding of  
theory and methods, and a foundation  
upon which to build solutions for many of  
today's most interesting and challenging  
computational imaging problems.  
Elucidating cutting-edge advances and  
applications in digital imaging, camera  
image processing, and computational

photography, with a focus on related  
research challenges, this book: Describes  
single capture image fusion technology for  
consumer digital cameras Discusses the  
steps in a camera image processing  
pipeline, such as visual data compression,  
color correction and enhancement,  
denoising, demosaicking, super-resolution  
reconstruction, deblurring, and high  
dynamic range imaging Covers shadow  
detection for surveillance applications,  
camera-driven document rectification,  
bilateral filtering and its applications, and  
painterly rendering of digital images  
Presents machine-learning methods for

automatic image colorization and digital face beautification Explores light field acquisition and processing, space-time light field rendering, and dynamic view synthesis with an array of cameras Because of the urgent challenges associated with emerging digital camera applications, image processing methods for computational photography are of paramount importance to research and development in the imaging community. Presenting the work of leading experts, and edited by a renowned authority in digital color imaging and camera image processing, this book considers the rapid developments in this area and addresses very particular research and application problems. It is ideal as a stand-alone professional reference for design and implementation of digital image and video processing tasks, and it can also be used to support graduate courses in computer vision, digital imaging, visual data processing, and computer graphics, among others.

**Fuzzy Systems and Data Mining III**  
Springer Nature

This book constitutes the thoroughly refereed proceedings of the 7th

International Conference, ICIAR 2010, held in Póvoa de Varzin, Portugal in June 2010. The 88 revised full papers were selected from 164 submissions. The papers are organized in topical sections on Image Morphology, Enhancement and Restoration, Image Segmentation, Feature Extraction and Pattern Recognition, Computer Vision, Shape, Texture and Motion Analysis, Coding, Indexing, and Retrieval, Face Detection and Recognition, Biomedical Image Analysis, Biometrics and Applications.

**Systems and Computer Technology**  
Springer

The two-volume set LNCS 7382 and 7383 constitutes the refereed proceedings of the 13th International Conference on Computers Helping People with Special Needs, ICCHP 2012, held in Linz, Austria, in July 2012. The 147 revised full papers and 42 short papers were carefully reviewed and selected from 364 submissions. The papers included in the first volume are organized in the following topical sections: universal learning design; putting the disabled student in charge; user focused technology in education; access to mathematics and science; policy

and service provision; creative design for inclusion, virtual user models for designing and using inclusive products; web accessibility in advanced technologies, website accessibility metrics; entertainment software accessibility; document and media accessibility; inclusion by accessible social media; a new era for document accessibility: understanding, managing and implementing the ISO standard PDF/UA; and human-computer interaction and usability for elderly.

*Methods and Applications* IGI Global  
This is a monumental reference for the theory and practice of computer security. Comprehensive in scope, this text covers applied and practical elements, theory, and the reasons for the design of applications and security techniques. It covers both the management and the engineering issues of computer security. It provides excellent examples of ideas and mechanisms that demonstrate how disparate techniques and principles are combined in widely-used systems. This book is acclaimed for its scope, clear and lucid writing, and its combination of formal and theoretical aspects with real systems,

technologies, techniques, and policies.  
*Proceedings of IC4S 2017, Volume 2*  
Springer

The two volume set LNCS 6938 and LNCS 6939 constitutes the refereed proceedings of the 7th International Symposium on Visual Computing, ISVC 2011, held in Las Vegas, NV, USA, in September 2011. The 68 revised full papers and 46 poster papers presented together with 30 papers in the special tracks were carefully reviewed and selected from more than 240 submissions. The papers of part I (LNCS 6938) are organized in computational bioimaging, computer graphics, motion and tracking, segmentation, visualization; mapping modeling and surface reconstruction, biomedical imaging, computer graphics, interactive visualization in novel and heterogeneous display environments, object detection and recognition. Part II (LNCS 6939) comprises topics such as immersive visualization, applications, object detection and recognition, virtual reality, and best practices in teaching visual computing.

**Advances in Neural Networks - ISSN 2017** CRC Press

This book presents the proceedings of International Conference on Emerging Research in Computing, Information, Communication and Applications, ERCICA 2020. The conference provides an interdisciplinary forum for researchers, professional engineers and scientists, educators and technologists to discuss, debate and promote research and technology in the upcoming areas of computing, information, communication and their applications. The book discusses these emerging research areas, providing a valuable resource for researchers and practicing engineers alike.

**Soft Computing Based Medical Image Analysis** CRC Press

Whether for computer evaluation of otherworldly terrain or the latest high definition 3D blockbuster, digital image processing involves the acquisition, analysis, and processing of visual information by computer and requires a unique skill set that has yet to be defined a single text. Until now. Taking an applications-oriented, engineering approach, Digital Image Processing and Analysis provides the tools for developing and advancing computer and human

vision applications and brings image processing and analysis together into a unified framework. Providing information and background in a logical, as-needed fashion, the author presents topics as they become necessary for understanding the practical imaging model under study. He offers a conceptual presentation of the material for a solid understanding of complex topics and discusses the theory and foundations of digital image processing and the algorithm development needed to advance the field. With liberal use of color through-out and more materials on the processing of color images than the previous edition, this book provides supplementary exercises, a new chapter on applications, and two major new tools that allow for batch processing, the analysis of imaging algorithms, and the overall research and development of imaging applications. It includes two new software tools, the Computer Vision and Image Processing Algorithm Test and Analysis Tool (CVIP-ATAT) and the CVIP Feature Extraction and Pattern Classification Tool (CVIP-FEPC). Divided into five major sections, this book provides the concepts and models

required to analyze digital images and develop computer vision and human consumption applications as well as all the necessary information to use the CVIPtools environment for algorithm development, making it an ideal reference tool for this fast growing field.

*Advanced Machine Learning Approaches in Cancer Prognosis* CRC Press

This book constitutes the refereed proceedings of the 14th International Symposium on Neural Networks, ISNN 2017, held in Sapporo, Hakodate, and Muroran, Hokkaido, Japan, in June 2017. The 135 revised full papers presented in this two-volume set were carefully reviewed and selected from 259 submissions. The papers cover topics like perception, emotion and development, action and motor control, attractor and associative memory, neurodynamics, complex systems, and chaos.

*Challenges and Applications* Springer Nature

This book constitutes the refereed proceedings of the 9th International Conference on Internet Multimedia Computing and Service, ICIMCS 2017, held in Qingdao, China, in August 2017. The 20

revised full papers and 28 revised short papers presented were carefully reviewed and selected from 103 submissions. The papers are organized in topical sections on multimedia information fusion, image processing and object recognition, machine learning and representation learning, multimedia retrieval, poster papers.

*Proceedings of FSDM 2017* Springer Nature

This book provides an introduction to fuzzy logic approaches useful in image processing. The authors start by introducing image processing tasks of low and medium level such as thresholding, enhancement, edge detection, morphological filters, and segmentation and shows how fuzzy logic approaches apply. The book is divided into two parts. The first includes vagueness and ambiguity in digital images, fuzzy image processing, fuzzy rule based systems, and fuzzy clustering. The second part includes applications to image processing, image thresholding, color contrast enhancement, edge detection, morphological analysis, and image segmentation. Throughout, they describe image processing algorithms

based on fuzzy logic under methodological aspects in addition to applicative aspects. Implementations in java are provided for the various applications.

*Visualization in Medicine and Life Sciences III* Springer Nature

This book contains the proceedings of the 22nd EANN "Engineering Applications of Neural Networks" 2021 that comprise of research papers on both theoretical foundations and cutting-edge applications of artificial intelligence. Based on the discussed research areas, emphasis is given in advances of machine learning (ML) focusing on the following algorithms-approaches: Augmented ML, autoencoders, adversarial neural networks, blockchain-adaptive methods, convolutional neural networks, deep learning, ensemble methods, learning-federated learning, neural networks, recurrent - long short-term memory. The application domains are related to: Anomaly detection, bio-medical AI, cyber-security, data fusion, e-learning, emotion recognition, environment, hyperspectral imaging, fraud detection, image analysis, inverse kinematics, machine vision, natural language, recommendation

systems, robotics, sentiment analysis, simulation, stock market prediction.

**7th International Conference, ICIAR 2010, Póvoa de Varzin, Portugal, June 21-23, 2010, Proceedings, Part I**

Elsevier

This book is a completely updated, greatly expanded version of the previously successful volume by the author. The Second Edition includes new results and data, and discusses a unified framework and rationale for designing and evaluating image processing algorithms. Written from the viewpoint that image processing supports remote sensing science, this book describes physical models for remote sensing phenomenology and sensors and how they contribute to models for remote-sensing data. The text then presents image processing techniques and interprets them in terms of these models. Spectral, spatial, and geometric models are used to introduce advanced image processing techniques such as hyperspectral image analysis, fusion of multisensor images, and digital elevation model extraction from stereo imagery. The material is suited for graduate level engineering, physical and

natural science courses, or practicing remote sensing scientists. Each chapter is enhanced by student exercises designed to stimulate an understanding of the material. Over 300 figures are produced specifically for this book, and numerous tables provide a rich bibliography of the research literature.

Image Analysis and Recognition Springer  
Information retrieval (IR) is considered to be the science of searching for information from a variety of information sources related to texts, images, sounds, or multimedia. With the rise of the internet and digital databases, updated information retrieval methodologies are essential to ensure the continued facilitation and enhancement of information exchange. *Critical Approaches to Information Retrieval Research* is a critical scholarly publication that provides multidisciplinary examinations of theoretical innovations and methods in information retrieval technologies including search and storage applications for data, text, image, sound, document, and video retrieval. Featuring a wide range of topics including data mining, machine learning, and ontology, this book

is ideal for librarians, software engineers, data scientists, professionals, researchers, information engineers, scientists, practitioners, and academicians working in the fields of computer science, information technology, information and communication sciences, education, health, library, and more.

*Models and Methods for Image Processing*  
Springer Nature

The congress's unique structure represents the two dimensions of technology and medicine: 13 themes on science and medical technologies intersect with five challenging main topics of medicine to create a maximum of synergy and integration of aspects on research, development and application. Each of the congress themes was chaired by two leading experts. The themes address specific topics of medicine and technology that provide multiple and excellent opportunities for exchanges.

**Internet Multimedia Computing and Service** Springer

This book introduces a variety of advanced machine learning approaches covering the areas of neural networks, fuzzy logic, and hybrid intelligent systems for the

determination and diagnosis of cancer. Moreover, the tactical solutions of machine learning have proved its vast range of significance and, provided novel solutions in the medical field for the diagnosis of disease. This book also explores the distinct deep learning approaches that are capable of yielding more accurate outcomes for the diagnosis of cancer. In addition to providing an overview of the emerging machine and deep learning approaches, it also enlightens an insight on how to evaluate the efficiency and appropriateness of such techniques and analysis of cancer data used in the cancer diagnosis. Therefore, this book focuses on the recent advancements in the machine learning and deep learning approaches used in the diagnosis of different types of cancer along with their research challenges and future directions for the targeted audience including scientists, experts, Ph.D. students, postdocs, and anyone interested in the subjects discussed.

Data Mining Springer Nature

The third international conference on Information Systems Design and Intelligent Applications (INDIA - 2016) held

in Visakhapatnam, India during January 8-9, 2016. The book covers all aspects of information system design, computer science and technology, general sciences, and educational research. Upon a double blind review process, a number of high quality papers are selected and collected in the book, which is composed of three different volumes, and covers a variety of topics, including natural language processing, artificial intelligence, security and privacy, communications, wireless and sensor networks, microelectronics, circuit and systems, machine learning, soft computing, mobile computing and applications, cloud computing, software engineering, graphics and image processing, rural engineering, e-commerce, e-governance, business computing, molecular computing, nano-computing, chemical computing, intelligent computing for GIS and remote sensing, bio-informatics and bio-computing. These fields are not only limited to computer researchers but also include mathematics, chemistry, biology, bio-chemistry, engineering, statistics, and all others in which computer techniques may assist.

**9th International Conference, ICIMCS 2017, Qingdao, China, August 23-25, 2017, Revised Selected Papers**

Springer Science & Business Media  
The two-volume set LNCS 10484 and 10485 constitutes the refereed proceedings of the 19th International Conference on Image Analysis and Processing, ICIAP 2017, held in Catania, Italy, in September 2017. The 138 papers presented were carefully reviewed and selected from 229 submissions. The papers cover both classic and the most recent trends in image processing, computer vision, and pattern recognition, addressing both theoretical and applicative aspects. They are organized in the following topical sections: video analysis and understanding; pattern recognition and machine learning; multiview geometry and 3D computer vision; image analysis, detection and recognition; multimedia; biomedical and assistive technology; information forensics and security; imaging for cultural heritage and archaeology; and imaging solutions for improving the quality of life.

*14th International Symposium, ISNN 2017, Sapporo, Hakodate, and Muroran,*

*Hokkaido, Japan, June 21-26, 2017, Proceedings, Part II* Springer

This book constitutes the proceedings of the 16th International Conference on Advanced Data Mining and Applications, ADMA 2020, held in Foshan, China in November 2020. The 35 full papers presented together with 14 short papers were carefully reviewed and selected from 96 submissions. The papers were organized in topical sections named: Machine Learning; Text Mining; Graph Mining; Predictive Analytics; Recommender Systems; Privacy and Security; Query Processing; Data Mining Applications.

**TEHI 2021** Springer

This book constitutes the refereed

proceedings of the Indian Conference on Computer Vision, Graphics and Image Processing, ICVGIP 2006, held in Madurai, India, December 2006. Coverage in this volume includes image restoration and super-resolution, image filtering, visualization, tracking and surveillance, face-, gesture-, and object-recognition, compression, content based image retrieval, stereo/camera calibration, and biometrics.

*World Congress on Medical Physics and Biomedical Engineering May 26-31, 2012, Beijing, China* Springer

Combining harmonic technology and an ultrasound contrast agent, harmonic imaging now plays a vital role in the diagnosis and treatment of hepatic

tumors. Contrast harmonic imaging is especially valuable in cases of hepatocellular carcinoma (HCC), the incidence of which has risen dramatically in Europe, North America, and Asia in recent years. Harmonic imaging is bringing about revolutionary changes in the diagnosis and treatment of HCC, and this book provides the most up-to-date information and guidelines for effective use of this superior technique. Generously illustrated with photographs and diagrams, with accompanying text by a leading expert in the field, this acclaimed book is a valuable state-of-the-art resource for clinicians and researchers in radiology and internal medicine, including hepatology and gastroenterology.

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