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Scott E Umbaugh

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Scott E Umbaugh : Digital Image Processing and Analysis: Human and Computer Vision Applications with CVIPtools, Second Edition before purchasing it in order to gauge whether or not it would be worth my time, and all praised Digital Image Processing and Analysis: Human and Computer Vision Applications with CVIPtools, Second Edition:

0 of 0 people found the following review helpful. I love this book. Buy it. By asdfI love this book. I've been a software engineer for the past 10+ years and computer vision has recently been an interest of mine. Previously it was networking and communications and then data mining. This book is written superbly as a gentle start into an advanced topic but it's not simple such that someone with an advanced understanding would shy away from it. I would say that it was written for engineers and students who have been primarily involved in other facets of computer science. It has tons of pictures too (not just a couple. dozens and dozens!). Edge detection was the primary topic that I was interested in and I've been ecstatic with what this book provides. Every algorithm is described and the results illustrated. 0 of 0 people found the following review helpful. Four Stars By Henrik Hamre 1 of 2 people found the following review helpful. good By priyaHi , I feel the book is good but there is no cd available for some books .so please check with the whether the cd is available before ordering it online.

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.

"This is a nicely presented book and the topics it covers in depth are well described. for a book on the basics of image processing complete with some ready-made software to let you work through the ideas, this is a good choice. Needless to say it would make a good course text ..."--Mike James, Programmer, September 2011"... My impression of this textbook is that it can be easily used as a basis for instruction in a variety of image processing and analysis areas in undergraduate and graduate work in fields from computer science to electrical to biomedical engineering ... used as a basis for advanced studies involving images. It is quite up to date. I recommend it highly."--Paul H. King, Vanderbilt University, IEEE Pulse, July/August 2012"The text, which is richly illustrated with both drawings and example images, and the CVIPtools package are highly integrated. This creates a learning environment that is particularly suited to students, computer scientists, and application developers. ...the author has produced a book that presents both the practical and theoretical aspects of digital image processing in a way that is efficient for learning, as well as research- and application-oriented development. He does an excellent job of showing how algorithms work and what the results look like. ... The CVIPtools application and libraries are very useful. ...two newly added software tools,offer a more complete set of tools for developing and testing algorithms. ... Overall, this is an excellent text for the student or professional"--Jeffrey Snyder and Elena Fedorovskaya, Kodak Research Laboratories, Rochester, New York, Journal of Electronic Imaging, Jul-Sep 2011/Vol. 20(3)About the AuthorDr. Scott E Umbaugh is professor and Graduate Program Director for theDepartment of Electrical and Computer Engineering at Southern IllinoisUniversity Edwardsville (SIUE). He is also the Director of the Computer Visionand Image Processing (CVIP) Laboratory at SIUE. He has been teaching computervision and image processing, as well as computer and electrical engineeringdesign, for over 20 years. Dr. Umbaugh has authored three editions ofhis textbook on digital image processing and analysis, co-authored several bookchapters, as well as publishing numerous papers in the field. He is also theprimary developer of the CVIPtools development environment used throughout theworld for imaging education and research.Prior to his academic career,Dr. Umbaugh worked as a computer design engineer and project manager in theavionics and telephony industries. He has been a computer imaging consultantsince 1986 and has provided consulting services for the aerospace, medical andmanufacturing industries with projects ranging from automatic identification ofdefects in microdisplay chips to analysis of thermographic images for clinicaldiagnosis of brain disease. He has performed research and development forprojects funded by the National Institutes of Health, the National ScienceFoundation, the U.S. Department of Defense, and many private companies.Dr. Umbaugh received his B.S.E. degree with honors from SouthernIllinois University Edwardsville in 1982, M.S.E.E. in 1987 and Ph.D. in 1990from the University of Missouri Rolla (currently, Missouri University of Scienceand Technology), where he was a Chancellor's Fellow. He is a senior member ofthe Institute of Electrical and Electronic Engineers (IEEE), a member of SigmaXi and the International Society for Optical Engineering (SPIE).

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