Handbook of Pattern Recognition and Computer Vision

By C H Chen

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Pattern recognition, image processing and computer vision are closely linked areas which have seen enormous progress in the last fifty years. Their applications in our daily life, commerce and industry are growing even more rapidly than theoretical advances. Hence, the need for a new handbook in pattern recognition and computer vision every five or six years as envisioned in 1990 is fully justified and valid.

The book consists of three parts: (1) Pattern recognition methods and applications; (2) Computer vision and image processing; and (3) Systems, architecture and technology. This book is intended to capture the major developments in pattern recognition and computer vision though it is impossible to cover all topics.

The chapters are written by experts from many countries, fully reflecting the strong international research interests in the areas. This fifth edition will complement the previous four editions of the book.

Readership: Graduate students, academics, practitioners, researchers, computer scientists, electrical and medical engineers.

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Editorial Review

From the Inside Flap
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About the Author
Chi Hau Chen received his PhD in electrical engineering from Purdue University in 1965, MSEE degree from University of Tennessee, Knoxville in 1962 and BSEE degree from National Taiwan University in 1959. He is currently Chancellor Professor and Professor Emeriti of electrical and computer engineering, at the University of Massachusetts Dartmouth, where he has taught since 1968. His research areas are in statistical pattern recognition and signal/image processing with applications to remote sensing, geophysical, underwater acoustics & nondestructive testing problems; as well computer vision for video surveillance; time series analysis; and neural networks.

Dr Chen has published (edited and authored) 30 books in his areas of research, including a number of books published by World Scientific Publishing. He was Associate Editor for International Journal of Pattern Recognition and Artificial Intelligence from 1986 2008. Since 2008 he has been an Editorial Board Member of *Pattern Recognition* Journal. Currently he is also the Series Editor in Computer Vision for World Scientific Publishing.

Dr Chen has been a Fellow of the Institute of Electrical and Electronic Engineers (IEEE) since 1988, a Life Fellow of the IEEE since 2003, Fellow of the International Association of Pattern Recognition (IAPR) since 1996, full member of the Academia NDT International since 200 and on the Fulbright Specialist Program since 2008.

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