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Advances in Face Image Analysis: Techniques and Technologies

ADVANCES IN FACE IMAGE ANALYSIS

Techniques and Technologies

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Video and image analysis of the human face provides a wealth of information about the individual, , including age, behavior, health and profession. With research continually being conducted into multiple applications of this field, a comprehensive and detailed volume of the new advancements of face image analysis is in demand.

Advances in Face Image Analysis: Techniques and Technologies fulfills this need, reviewing and surveying new forward-thinking research and development in face image analysis technologies. With more than 30 leading experts from around the world providing comprehensive coverage of various branches of face image analysis, this book is a valuable asset for students, researchers and practitioners engaged in the study, research and development of face image analysis techniques.

Topics Covered:

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- Transform Based Feature Extraction
- Discriminant Learning Using Training Space Partitioning
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- Photometric Normalization for Illumination Invariance
- Subtle Facial Expression Recognition
- Facial Expression Analysis by Machine Learning

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.

Yu-Jin Zhang, PhD, State University of Liège, Belgium, is Professor of Image Engineering at Tsinghua University, Beijing, China. Previously, he was with the Delft University of Technology, the Netherlands. In 2003, he spent the sabbatical year as visiting professor at National Technological University, Singapore. His research interests are mainly in the area of image engineering, including image processing, image analysis and image understanding, as well as their applications. He has published nearly 400 research papers and more than 20 books, including three monographs: Image Segmentation (Science Press, 2001), Content-based Visual Information Retrieval (Science Press, 2003) and Subspace-based Face Recognition (Tsinghua University Press, 2009), as well as two edited collections: Advances in Image and Video Segmentation (IRM Press, 2006) and Semantic-based Visual Information Retrieval (IRM Press, 2007). He is vice president of China Society of Image and Graphics and the director of the academic committee of the society. He is deputy editor-in-chief of Journal of Image and Graphics and at the editorial board of several international journals. He was the program co-chair of The First, Second, Fourth, and Fifth International Conference on Image and Graphics (ICIG'2000, ICIG'2007, and ICIG'2009). He is a senior member of IEEE.

