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Both also place strong emphasis on recent techniques motivated by the spread of commodity devices for 3D acquisition. Part 4 demonstrates the use of these techniques in a selection of 3D shape analysis applications. It covers 3D face recognition, object

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Pattern recognition has gained
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Classifying face images become challenging. This clearly warrants for semi-supervised classification and subspace projection. Another important concern in face recognition system is the proper and stringent evaluation of its capability. This book is edited keeping all these factors in

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Although the history of computer-aided face recognition stretches back to the

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1960s, automatic face recognition remains an unsolved problem and still offers a great challenge to computer-vision and pattern recognition researchers. This handbook is a comprehensive account of face recognition research and technology, written by a group of leading

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International researchers. Twelve chapters cover all the sub-areas and major components for designing operational face recognition systems. Background, modern techniques, recent results, and challenges and future directions are considered. The book is aimed at practitioners and

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Techniques reference resource for researchers and professionals in biometric security, computer vision, and video image analysis.

Face recognition technologies (FRTs) have many practical security-related purposes, but advocacy groups and

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Individuals have expressed apprehensions about their use. This report highlights the high-level privacy and bias implications of FRT systems. The authors propose a heuristic with two dimensions -- consent status and comparison type -- to help determine a proposed FRT's level of privacy and

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Step-by-step tutorials on deep learning neural networks for computer vision in python with Keras.

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This Spotlight explains how to build an automated system for face, emotion, and pain recognition. These steps include pre-processing, face detection and segmentation, feature extraction, and finally and most importantly, recognition to classify features and show the accuracy of the system.

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State-of-the-art algorithms are used to describe all possible solutions of each step. Pre-processing involves algorithms to reduce noise and improve the illumination of images. For face detection and segmentation, several approaches are described to detect a face in images: Viola-Jones,

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color-based approaches, histogram-based approaches, and morphological operation. Local binary patterns, edge detectors, wavelets, discrete Cosine transformation, Gabor filters, and fuzzified features are used for feature extraction. The last step includes three approaches for recognition:

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Classification techniques (with a special focus on deep learning), statistical modeling, and distance/similarity measures.

This handbook on the concepts, methods, and algorithms for automated face detection and

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Recognition covers all the sub-areas and major components for designing operational face recognition systems. It also details essential background information.

With an A–Z format, this encyclopedia provides easy access to relevant

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Information on all aspects of biometrics. It features approximately 250 overview entries and 800 definitional entries. Each entry includes a definition, key words, list of synonyms, list of related entries, illustration(s), applications, and a bibliography. Most entries include

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Useful literature references providing the reader with a portal to more detailed information.

An in-depth description of the state-of-the-art of 3D shape analysis techniques and their applications This book discusses the different topics that

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come under the title of "3D shape analysis". It covers the theoretical foundations and the major solutions that have been presented in the literature. It also establishes links between solutions proposed by different communities that studied 3D shape, such as mathematics and

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Techniques, medical imaging, computer vision, and computer graphics. The first part of 3D Shape Analysis: Fundamentals, Theory, and Applications provides a review of the background concepts such as methods for the acquisition and representation of 3D geometries, and

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The fundamentals of geometry and topology. It specifically covers stereo matching, structured light, and intrinsic vs. extrinsic properties of shape. Parts 2 and 3 present a range of mathematical and algorithmic tools (which are used for e.g., global descriptors, keypoint detectors, local

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Techniques (feature descriptors, and algorithms) that are commonly used for the detection, registration, recognition, classification, and retrieval of 3D objects. Both also place strong emphasis on recent techniques motivated by the spread of commodity devices for 3D acquisition. Part 4

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Techniques demonstrates the use of these techniques in a selection of 3D shape analysis applications. It covers 3D face recognition, object recognition in 3D scenes, and 3D shape retrieval. It also discusses examples of semantic applications and cross domain 3D retrieval, i.e. how to retrieve 3D

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Models using various types of modalities, e.g. sketches and/or images. The book concludes with a summary of the main ideas and discussions of the future trends. 3D Shape Analysis: Fundamentals, Theory, and Applications is an excellent reference for graduate

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students, researchers, and professionals in different fields of mathematics, computer science, and engineering. It is also ideal for courses in computer vision and computer graphics, as well as for those seeking 3D industrial/commercial solutions.

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The main theme of this publication is the fundamental features of verbal and nonverbal communication and their relationships with the identification of a person, his/her socio-cultural background and personal traits. The problem of understanding human behaviour in terms of personal traits,

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Techniques and the possibility of an algorithmic implementation that exploits personal traits to identify a person unambiguously, are among the great challenges of modern science and technology. On the one hand, there is the theoretical question of what makes each individual unique among all

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Others that share similar traits, and what makes a culture unique among various cultures. On the other hand, there is the technological need to be able to protect people from individual disturbance and dangerous behaviour that could damage an entire community. As regards to the problem

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Understanding human behaviour, one of the most interesting research areas is that related to human interaction and face-to-face communication. It is in this context that knowledge is shared and personal traits acquire their significance.

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