



Reliable Face Recognition Methods: System Design, Implementation and Evaluation (International Series on Biometrics)

By Harry Wechsler

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This book seeks to comprehensively address the face recognition problem while gaining new insights from complementary fields of endeavor. These include neurosciences, statistics, signal and image processing, computer vision, machine learning and data mining. The book examines the evolution of research surrounding the field to date, explores new directions, and offers specific guidance on the most promising venues for future research and development. The book's focused approach and its clarity of presentation make this an excellent reference work.

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Editorial Review

From the Back Cover

One of the grand challenges for computational intelligence and biometrics is to understand how people process and recognize faces and to develop automated and reliable face recognition systems. Biometrics has become the major component in the complex decision making process associated with security applications. The face detection and authentication challenges addressed include cluttered environments, image variability, occlusion and disguise, and temporal changes all within open set recognition.

Reliable Face Recognition Methods: System Design, Implementation and Evaluation comprehensively explores the face recognition problem while drawing inspiration from complementary disciplines such as neurosciences, statistics, signal and image processing, computer vision, and machine learning and pattern recognition. This book also examines the evolution of face recognition research and explores promising new avenues for research and development.

Reliable Face Recognition Methods: System Design, Implementation and Evaluation benefits graduate-level students, researchers, and practitioners, as well as government and industry decision makers in the security arena.

Ruud Bolle (IBM): "Harry Wechsler's monograph provides a thorough, up-to-date, and in-depth overview of the many advances in the area of face recognition. ...gives an excellent overview of the issues related to security and privacy when it comes to automated biometrics. In summary, this book has the potential to become a classic. Harry Wechsler is to be commended for undertaking the monumental task of writing this book."

John Daugman (Cambridge University, UK):

"The book looks excellent. The topic is timely, and the perspective?multi-disciplinary, measured, and objective – is much needed and welcome. I believe that Wechsler's latest book will make a valued contribution to this important field and will become a standard."

David Zhang (Hong Kong Polytechnic University, China):

"From a system view, this book shows an excellent arrangement, from data collection to face recognition, as well as system performance evaluation and error analysis. This book can serve both as an interdisciplinary text and a research reference. Each chapter provides the background and impetus for understanding the problems discussed."

Stan Li (Chinese Academy of Sciences, China):

"The book treats the subject of face recognition in a fairly systematic way.

The book covers most relevant topics in face recognition, in a well organized way. The information is also useful for experts. The manuscript is easy to read."

Tom Huang (University of Illinois, USA):

"Harry Wechsler is without doubt one of the leading authorities in face

recognition and related topics. We have recently seen a number of excellent edited books on Face

Recognition. However, Wechsler's book is the first unified treatment of this important subject. In my

opinion, Wechsler is one of only a handful of people in the world who could write such a comprehensive, unified, informative, perceptive, and authoritative book on Face Recognition. Harry Wechsler so far, is the only one of this handful who took the time and effort to realize such a project. The book certainly will have a great positive impact on the biometrics research community. But also, because it looks at Face Recognition from different perspectives, it will be welcomed by non-experts."

Users Review

From reader reviews:

Susan Arnold:

Reading a book can be one of a lot of activity that everyone in the world adores. Do you like reading book so. There are a lot of reasons why people love it. First reading a book will give you a lot of new info. When you read a guide you will get new information simply because book is one of various ways to share the information as well as their idea. Second, examining a book will make anyone more imaginative. When you looking at a book especially fictional works book the author will bring that you imagine the story how the figures do it anything. Third, you can share your knowledge to some others. When you read this Reliable Face Recognition Methods: System Design, Implementation and Evaluation (International Series on Biometrics), you are able to tells your family, friends as well as soon about yours reserve. Your knowledge can inspire average, make them reading a reserve.

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Carlos McNerney:

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