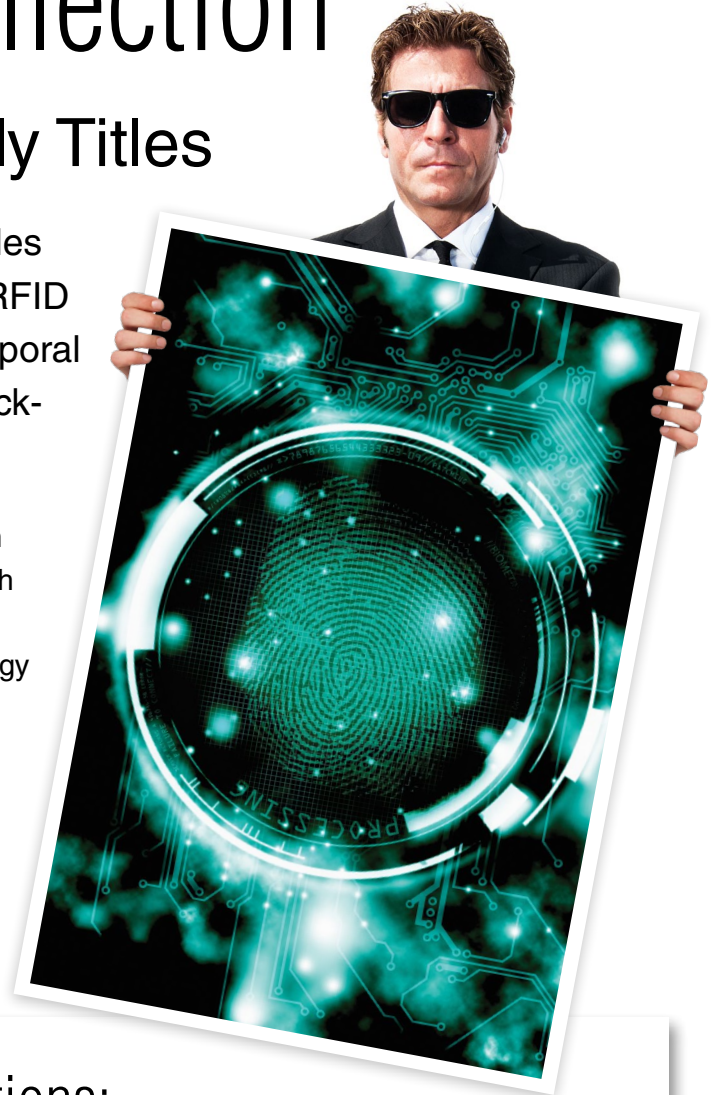# Biometrics and Surveillance Technologies Collection

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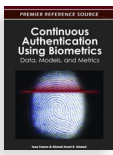
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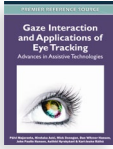
Continuous Authentication Using Biometrics: Data, Models, and Metrics

Issa Traore (University of Victoria, Canada), et al.
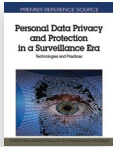ISBN: 978-1-61350-129-0; © 2012; 385 pp.

Presents chapters on continuous authentication using biometrics that have been contributed by leading experts in this recent, fast growing research area.

Gaze Interaction and Applications of Eye Tracking: Advances in Assistive Technologies

Päivi Majaranta (University of Tampere, Finland), et al.
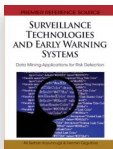ISBN: 978-1-61350-098-9; © 2012; 382 pp.

Focuses on interactive communication and control tools based on gaze tracking, including eye typing, computer control, and gaming, with special attention to assistive technologies.

Personal Data Privacy and Protection in a Surveillance Era: Technologies and Practices

Christina Akrivopoulou (Aristotle University of Thessaloniki, Greece), et al.
ISBN: 978-1-60960-083-9; © 2011; 356 pp.

Explores the new threats that cyberspace poses to the privacy of individuals, as well as the threats that surveillance technologies generate in public spaces and in digital communication.

Surveillance Technologies and Early Warning Systems: Data Mining Applications for Risk Detection

Ali Serhan Koyuncugil (Capital Markets Board of Turkey, Turkey), et al.
ISBN: 978-1-61692-865-0; © 2011; 388 pp.

Multidisciplinary excursion comprised of data mining, early warning systems, information technologies, and risk management and explores the intersection of these components in problematic domains.

Advances in Face Image Analysis: Techniques and Technologies

Yu-Jin Zhang (Tsinghua University, China)
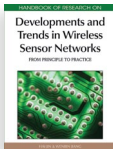ISBN: 978-1-61520-991-0; © 2011; 404 pp.

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.

Movement-Aware Applications for Sustainable Mobility: Technologies and Approaches

Monica Wachowicz (Wageningen University of Research Centre for Geo-Information, The Netherlands)
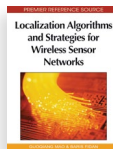ISBN: 978-1-61520-769-5; © 2010; 346 pp.

Focuses on the use of location sensing technology and its wider applicability in supporting sustainable mobility, and presents current research on developing innovative approaches.

Handbook of Research on Developments and Trends in Wireless Sensor Networks: From Principle to Practice

Hai Jin (Huazhong University of Science and Technology, ROC), et al.
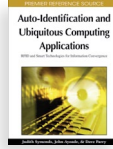ISBN: 978-1-61520-701-5; © 2010; 478 pp.

Provides research in the rapidly changing world of wireless sensor networks (WSNs). The findings feature developments and studies of WSNs to provide a seedbed for new breakthroughs in this technology.

Localization Algorithms and Strategies for Wireless Sensor Networks

Guoqiang Mao (University of Sydney, Australia), et al.
ISBN: 978-1-60566-396-8; © 2009; 526 pp.

Encompasses the significant and fast growing area of wireless localization techniques. It provides comprehensive and up-to-date coverage of topics and fundamental theories underpinning measurement techniques and localization algorithms.

Auto-Identification and Ubiquitous Computing Applications: RFID and Smart Technologies for Information Convergence

Judith Symonds (Auckland University of Technology, New Zealand), et al.
ISBN: 978-1-60566-298-5; © 2009; 399 pp.

Provides an overview of current literature and draws together several different fields of research across supply chain management, asset tracking, and novel use of RFID.

Automated Face Analysis: Emerging Technologies and Research

Daijin Kim (Pohang University of Science & Technology, Korea), et al.
ISBN: 978-1-60566-216-9; © 2009; 448 pp.

Provides theoretical background to understand the overall configuration and challenging problem of automated face analysis systems, while featuring a comprehensive review of recent research for the practical implementation of the analysis system.

Innovative Automatic Identification and Location-Based Services: From Bar Codes to Chip Implants

Katina Michael (University of Wollongong, Australia), et al.
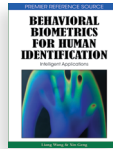ISBN: 978-1-59904-795-9; © 2009; 544 pp.

Emphasizes the convergence and trajectory of automatic identification and location-based services toward chip implants and real-time positioning capabilities.

Biometric Image Discrimination Technologies

David Zhang (Hong Kong Polytechnic University, HK), et al.
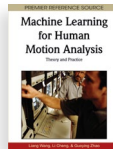ISBN: 978-1-59140-830-7; © 2006; 358 pp.

Addresses highly relevant issues to many fundamental concerns of both researchers and practitioners of biometric image discrimination (BID) in biometric applications. It describes the basic concepts necessary for a good understanding of BID and answers some important introductory questions about BID.

Behavioral Biometrics for Human Identification: Intelligent Applications

Liang Wang (University of Bath, UK), et al.
ISBN: 978-1-60566-725-6; © 2010; 530 pp.

Discusses classic behavioral biometrics, as well as collects the latest advances in techniques, theoretical approaches, and dynamic applications.

Machine Learning for Human Motion Analysis: Theory and Practice

Liang Wang (University of Melbourne, Australia), et al.
ISBN: 978-1-60566-900-7; © 2010; 387 pp.

Highlights the development of robust and effective vision-based motion understanding systems. It addresses a broad audience including practicing professionals working with specific vision applications such as surveillance, sport event analysis, healthcare, video conferencing, and motion video indexing and retrieval.