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Biometric Recognition

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Preface

Biometric recognition technology has been widely used in law enforcement, government, and consumer applications around the world. Biometrics offers a number of advantages over traditional password- or token-based solutions. However, current biometric technology is not perfect and still faces problems such as low-quality samples, identification in large populations, and spoofing. Researchers in this field have been actively studying these questions. In China, due to the large number of smartphone users and the government's investment in public safety, the biometrics market is developing rapidly, and the research of biometrics is attracting the attention of many researchers. The Chinese Conference on Biometric Recognition (CCBR), an annual conference held in China, provides an excellent platform for biometric researchers to share their ideas and advances in the development and applications of biometric theory, technology, and systems.

CCBR 2021 was held in Shanghai during September 10–12, 2021, and was the 15th event in the series, which has been successfully held in Beijing, Hangzhou, Xi'an, Guangzhou, Jinan, Shenyang, Tianjin, Chengdu, Shenzhen, Urumqi, and Zhuzhou since 2000. CCBR 2021 received 72 submissions which were subject to a double-blind review process involving 85 experts from the Program Committee. Each submission was reviewed by at least three experts from the Program Committee and received at least two review feedback reports. We are very grateful to all the reviewers for their hard work in reviewing up to five submissions. Based on the rigorous review comments, 20 papers were selected for oral presentation and 33 papers for poster presentation. These papers make up this volume of the CCBR 2021 conference proceedings covering a wide range of topics: multi-modal biometrics, emerging biometrics, hand biometrics, facial biometrics, speech biometrics, etc.

We would like to thank all the authors, reviewers, invited speakers, volunteers, and Organizing Committee members, without whom CCBR 2021 would not have been successful. We also wish to acknowledge the support of the Chinese Association for Artificial Intelligence, the Institute of Automation of Chinese Academy of Sciences, Springer, Shanghai University, ZKTeco, IrisKing, DeepRobotics, and Watrix in sponsoring this conference.

July 2021

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