

# Preface

Automatic and reliable authentication of individuals is becoming an essential part of the modern world, for security and convenience in our life, in our work and in society. Biometrics-based systems utilize physiological or behavioral characteristics of an individual including the face, iris, fingerprint, palmprint, hand, voice, signature, or a combination of them, for this task. We are now seeing increasing interest and practical deployment of biometric systems.

The International Workshop on Biometric Recognition Systems (IWBRs 2005) was held in conjunction with ICCV 2005, providing an interactive forum for leading biometrics researchers and system designers. A biometric authentication competition (BAC) was conducted by the workshop to track the state-of-the-art biometrics technologies.

This volume of workshop proceedings includes 32 papers carefully selected from a total of 130 submissions. The papers address the problems in face, iris, fingerprint, palmprint, speech, writing and other biometrics, and contribute new ideas to research and development of reliable and practical solutions for biometric authentication.

We would like to express our gratitude to all the contributors, reviewers, and Program Committee and Organizing Committee members who made this a very successful workshop. We also wish to acknowledge the Institute of Automation, Chinese Academy of Sciences, and Springer for sponsoring this workshop. Special thanks are due to Miao Hong, Xin Yang, Zhuoshi Wei, Yinghao Cai, Zhaofeng He, Cheng Zhong, Shiqi Yu and Xianchao Qiu for their hard work in workshop organization.

We hope you could benefit from the fruitful workshop to improve the performance of your biometric systems.

September 2005

Stan Z. Li  
Zhenan Sun  
Tieniu Tan  
David Zhang  
Sharath Pankanti  
Gerard Chollet

# Organization

## General Chairs

Anil K. Jain (Michigan State University, USA)

Josef Kittler (University of Surrey, UK)

Tieniu Tan (Institute of Automation, Chinese Academy of Sciences, China)

## Program Chairs

David Zhang (Hong Kong Polytechnic University, Hong Kong, China)

Sharath Pankanti (IBM, USA)

Gerard Chollet (Ecole Nationale Supérieure des Télécommunications, France)

Stan Z. Li (Institute of Automation, Chinese Academy of Sciences, China)

## Program Committee

Simon Baker (Carnegie Mellon University, USA)

Pawan Sinha (MIT, USA)

Samy Bengio (IDIAP, Switzerland)

Vijayakumar Bhagavatula (CMU, USA)

Volker Blanz (Max Planck Institute, Germany)

Ruud M. Bolle (IBM, USA)

John Daugman (University of Cambridge, UK)

Wen Gao (Institute of Computing Technology, CAS, China)

Jufu Feng (Peking University, China)

Julian Fierrez-Aguilar (Universidad Politecnica de Madrid, Spain)

Sadaoki Furui (Tokyo Institute of Technology, Japan)

Jiahie Kim (Yonsei University, Korea)

Seong-Whan Lee (Korea University, Korea)

Ales Leonardis (University of Ljubljana, Slovenia)

Shihong Lao (Omron Corporation, Japan)

Davide Maltoni (University of Bologna, Italy)

Shree K. Nayar (Columbia University, USA)

Mark Nixon (University of Southampton, UK)

Jonathon Phillips (NIST, USA)

Jamie Sherrah (Safehouse International Ltd., Australia)

Arun Ross (West Virginia University, USA)

Yang Ni (INT, France)

Xiaoou Tang (Microsoft Research Asia, China)

Yunhong Wang (Beihang University, China)

Guangyou Xu (Tsinghua University, China)

## VIII Organization

Wei Yun Yau (Institute for Infocomm Research, Singapore)  
PC Yuen (Hong Kong Baptist University, Hong Kong, China)  
Changsui Zhang (Tsinghua University, China)  
Young-Bin Kwon (Chung-Ang University, Korea)

### **Competition Coordinators**

Yin Xie (Automatic Identification Manufacture Association of China)

### **Local Arrangements Chairs**

Zhenan Sun (Institute of Automation, Chinese Academy of Sciences, China)  
Xin Yang (Institute of Automation, Chinese Academy of Sciences, China)

Advances in Biometric Person Authentication  
International Workshop on Biometric Recognition  
Systems, IWBRs 2005, Beijing, China, October 22 – 23,  
2005, Proceedings  
Li, S.Z.; Sun, Z.; Tan, T.; Pankanti, S.; Chollet, G.;  
Zhang, D.Y. (Eds.)  
2005, XI, 252 p., Softcover  
ISBN: 978-3-540-29431-3