UNIVERSITY OF MACAU

FACULTY OF SCIENCE AND TECHNOLOGY

DEPARTMENT of COMPUTER AND INFORMATION SCIENCE

"Biometrics: New Challenges and Developments"

by

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Abstract

In recent times, an increasing, worldwide effort has been devoted to the development of automatic personal identification systems that can be effective in a wide variety of security contexts. As one of the most powerful and reliable means of personal authentication, biometrics has been an area of particular interest. It has led to the extensive study of biometric technologies such as fingerprint and face recognition and the development of numerous algorithms, applications, and systems. This presentation will introduce a new biometrics technology, palmprint recognition. As a new application of biometrics, we will also present how to apply biometrics technology into both Traditional Chinese Medicine (TCM) and facial beauty analysis. Based on over ten years' experiences, some useful results could be given to illustrate their effectiveness.

Biography

David Zhang graduated in Computer Science from Peking University. He received his MSc in 1982 and his PhD in 1985 in Computer Science from the Harbin Institute of Technology (HIT), respectively. From 1986 to 1988 he was a Postdoctoral Fellow at Tsinghua University and then an Associate Professor at the Academia Sinica, Beijing. In 1994 he received his second PhD in Electrical and Computer Engineering from the University of Waterloo, Ontario, Canada. He is a Chair Professor since 2005 at the Hong Kong Polytechnic University where he is the Founding Director of the Biometrics Technology Centre (UGC/CRC) supported by the Hong Kong SAR Government in 1998. He also serves as Visiting Chair Professor in Tsinghua University and HIT, and Adjunct Professor in Peking University, Shanghai Jiao Tong University, and the University of Waterloo. He is the Founder and Editor-in-Chief, International Journal of Image and Graphics (IJIG); the Founder and Book Editor, Springer International Series on Biometrics; Organizer, the first International Conference on Biometrics Authentication (ICBA); Associate Editor of more than ten international journals including IEEE Transactions and so on; and the author of more than 10

books,over 200 international journal papers and over 15 patents from USA/Japan/HK/China. Professor Zhang is a Croucher Senior Research Fellow, Distinguished Speaker of the IEEE Computer Society, and a Fellow of both IEEE and IAPR.

ALL ARE WELCOME!