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## **Biometric Systems: Algorithms, Tools and Applications**

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The development of smart city infrastructures, automation industries, advanced communication technologies and having a cashless society have facilitate people to become more interconnected than ever before. In this competitive world, security threats from hackers, malicious users and hard core criminals in terms of vulnerability of data by stealing secured information, identity thefts, cross-border vulnerability, terrorism, etc. are the main concerns in today's society. To safeguard people from counterfeiting of identity and terrorism, biometrics systems play a crucial role where surveillance and identity checking could be made as regular practice and could be integrated with large infrastructures. Real life situations demand for a biometric system with high security and performance. An important way to improve the security and performance in biometric systems is biometric fusion. Multi-biometric system fuses multiple sources of biometric information. The purpose is to combine the evidences of complementary and non-correlated characteristics as much as possible for discriminating the information present in multi-biometric sources. The aim of this book is to present some unibiometrics and multibiometrics systems, which make use of different biometrics evidences. The book will provide up-to-date algorithms and theories used in human identification systems. The primary audience for the book includes faculty, graduate and research students, practitioners, independent researchers, developers, engineers, etc.

### **Guest Editor**

Dr. Dakshina Ranjan Kisku ([Website](#) | [e-mail](#))

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*Short CV:* Dr. Dakshina Ranjan Kisku is currently an Associate Professor in the Department of Computer Science and Engineering at National Institute of Technology Durgapur, India. Dr. Kisku has more than 90 scientific articles to his credit published in refereed conferences, journals and edited books. He has co-authored and edited four books on biometrics systems, homeland security and healthcare biometrics. He is a recipient of the IEI Young Engineers Award, Outstanding Scientist Award, Outstanding Reviewer Award, IEI-FCRIT Excellence Award, IEEE Travel Award, Albert Nelson Lifetime Achievement Award, Sir Visvesvaraya Young Faculty Research Fellowship, Italian Ministry of Research Fellowship, etc. Dr. Kisku is a Senior Member of IEEE (USA) and member of ACM and SPIE.

## Topics of Interest

Original contributions, not currently under review to a journal or a conference, are solicited in relevant areas of *Biometric Systems* including, but not limited to, the following

- Face biometrics
- Iris biometrics
- Gait biometrics
- Fingerprint biometrics
- Behavioral biometrics
- Retina biometrics
- Keystroke dynamics
- Voice biometrics
- Signature recognition
- Speaker recognition
- Vein biometrics
- Multibiometrics
- Biometric sensors
- Biometrics single sign on (SSO)
- Mobile biometrics
- Cloud based biometrics
- Biometric datasets
- Biometric systems' evaluation metrics

## Important Dates

<b>01 May, 2019</b>	Chapter Proposal Submission (max. 2 pages)
<b>01 June, 2019</b>	Decision Notification
<b>01 September 2019</b>	Full Chapter Submission
<b>01 October, 2019</b>	Notification of Reviews
<b>01 November, 2019</b>	Final Submission
<b>01 December, 2019</b>	Notification of Proofs
<b>15 December, 2019</b>	Online Publication

## Instructions for Authors

- The initial chapter proposal should be maximum 2 pages
- The length of the final book chapter should be maximum 24 pages
- The language of the book chapter is English
- No specific formatting guidelines are requested
- The chapter proposal should be submitted in PDF format
- The article processing and publication charges are in accordance with the publisher's [regulations](#)
- Please read the [instructions for authors](#) provided by the publisher
- A free hardcopy of the Edited book will be sent by post to the author(s) of each contributed chapter
- All chapters should be submitted to [gcsrbooks@sciencegatepub.com](mailto:gcsrbooks@sciencegatepub.com), with subject "Biometric Systems"

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