

Speaker Presentation Profile

1. PRESENTER'S INFORMATION

FULL NAME	Brain Leke Betechuoh		
DESIGNATION	Senior Researcher		
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2. PRESENTER'S BACKGROUND

Brian holds a PhD from the University of Witwatersrand, Johannesburg in Electrical Engineering and has served as external examiner for courses and thesis at the same institution for the last 2 – 3 years. He also has over 10 publications in the international space and acts as a reviewer for some international journals (notably International Journal of Science). He has presented at international conferences in China, Taiwan, Spain, and USA as a main author on technical aspects relating to research in the ICT sphere.

3. TITLE/TOPIC OF PRESENTATION

Biometrics: Safety of the future guaranteed

4. PRESENTATION SYNOPSIS/ABSTRACT

Brief summary of content and focus of the presentation:

This talk will focus on fingerprint recognition, encryption of biometric images, voice recognition and facial recognition. Fingerprint, voice and facial recognition involves the use of an individual's fingerprint, voice pattern and facial features respectively, for authentication or verification. The encryption of biometric images entails the use of cryptographic methods to ensure biometric templates captured are stored as safe and non-corruptible in the databases. The four topics will be introduced, and the stages for the implementation of systems will be presented. Advances in the four topics will also be presented, as well as, the emerging trend of combining different biometric characteristics into a single solution, known as a multi-modal biometric solution.

Key points for discussion include:

1. Importance of Biometrics for Identification
2. How Biometrics can enhance other security systems
3. The security implications of purchasing biometric solutions from abroad
4. Recommendations for biometric solutions for the South African Context