

# 3D Low-Cost, Contactless and Accurate Fingerprint Identification System

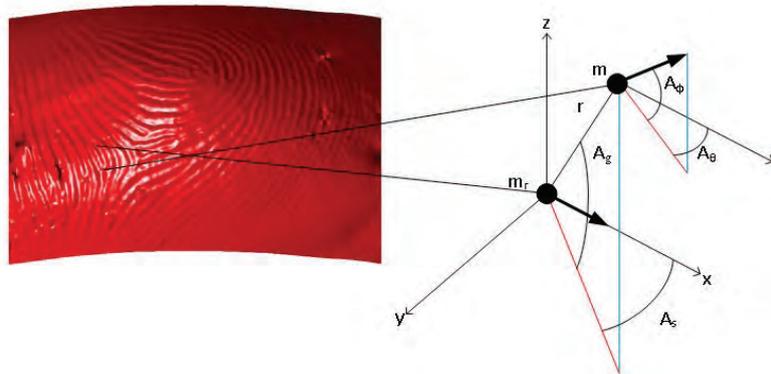
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A low-cost and more accurate contactless 3D fingerprint identification system have been developed to provide more accurate personal identification as rich information is available from 3D biometrics images.

The minutiae details in two-dimensional space are widely used by the law-enforcement personnel's and also employed in almost all the fingerprint system commercially deployed today. The 3D system have been able to accurately recover and match these fingerprint minutiae details in three dimensional spaces. This research is also fundamentally significant as it reveals that such recovery and matching of 3D minutiae features will significantly alter the theoretical believed limits on the accuracy of identifying the human's population using fingerprints which is the most popular biometric modality today.

## Special Features

- 3D biometrics images for more accurate personal identification with advanced biometrics technologies
- To deliver more accurate low-cost and faster identifications of humans for a wide range of civilian or forensic applications



Computing relative localization of two 3D minutiae features in 3D space from the (real) reconstructed 3D fingerprint in the system.



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