



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	2014_BJMCS_11944
Title of the Manuscript:	A REVIEW OF WAVELET-BASED IMAGE PROCESSING METHODS FOR FINGERPRINT COMPRESSION IN BIOMETRIC APPLICATION
Type of the Article	Review Article

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
The manuscript aims to review methods related to fingerprint image compression techniques, which are limited to wavelet based. However, as a review paper, the manuscript should be more thorough. The reasons why fingerprint images need special compression schemes are not been given in details. What are the problems with the normal compression schemes (e.g. JPEG2000, GIG. TIFF)? The significance of the review has not been emphasized. In general, the manuscript can be accepted for publication.	The limitation of JPEG2000 standard was reviewed contrary to this comment. It was found out that JPEG2000 does not adequately preserve the minutia features of fingerprint at compression ratio higher than 20:1. The minutia features of fingerprint were also discussed. GIF, TIF are image file structures they are not compression standards. The two image compression standards include JPEG2000 (multi-purpose) and WSQ (fingerprint-specific) and these have been comparatively discussed to the best of my understanding. The significance of the review is that it identified the problems or gaps that still exist in the existing compression standard and so identified the need for an optimal compression technique using wavelet transform.