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Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	2015_BJMCS_18438
Title of the Manuscript:	EFFICIENT QUANTIZATION METHOD FOR BIOMETRIC FINGERPRINT IMAGE COMPRESSION
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	The paper presents an analysis of different quantization schemes that can be used for fingerprint image compression. Several evaluation results are provided and in general the paper will be of interest for the biometrics community research. However some issues must be attended which are provided in the reviewers comment column. 1. It is necessary to discuss how the compression affects the recognition performance of the biometric systems, because an accurate recognition is more important than a high PSNR. 2. Please mention which image compression are usually used for fingerprint image compression together with their limitations. 3. Please mention which is recommended compression rate and include an uncompressed image because the compression rate must depend on the original image quality. 4. Why the Coiflet wavelet is used instead of other wavelet function or even the DCT. 5. Because the recognition rate is the most important result in any biometric system it is necessary to include some results showing the recognition rate achieved, using the same fingerprint recognition method, with and without compression. 6. Please include in the evaluation results some	1. SQNR/PSNR is the standard performance metric for compression algorithm. 2. A critical review of the standard image compression methods has been included in the manuscript. 3. Compression ratio is extent to which compression is achievable and it is inversely proportional to SQNR. This was experimentally shown in the paper. 4. Milestones in the development of transformation method has been included and the drawback of DCT was highlighted. 5. Determination of recognition rate is not within the scope of this paper. 6. The fingerprint test images have been included in the appendix.



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	fingerprint image before compression and after the compression-decompression process.	
<u>Minor</u> REVISION comments	The paper must be proofread because there are several mistakes. 1. Line 62. Valuesappears must be value appears 2. Line 122 squarequantization must be square quantization. 3. 3. There are similar problems	
<u>Optional/General</u> comments		