



SDI Review Form 1.6

PART 1:

Journal Name:	British Journal of Applied Science & Technology
Manuscript Number:	MS: 2012 BJASt 2696
Title of the Manuscript:	Planar nuclear medicine images de-noising via wavelet block thresholding: simulation study

General guideline for Peer Review process is available in this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

- This form has total 9 parts. Kindly note that you should use all the parts of this review form.



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PART 2: Review Comments

Ab	Reviewer's comment In this paper , authors apply the Wavelet method in order to reduce noise in scintigraphic planar images, that represents a real issue . The novelty is essentially the strategy for thresholding the wavelet coefficients with blocks. Data consist of Monte-Carlo simulations of the Carlson phantom. It is clearly shown that best results are obtained by invariant soft thresholding for block size of 3 and 4. Authors afford an interesting contribution to the field. The abstract reflects correctly the paper.	Author's comment <i>(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)</i>
<u>Compulsory</u> REVISION comments		
<u>Minor</u> REVISION comments	The state of the art must be improved. Several papers have been published on this topic since Turkheimer J. Cereb. Blood Flow. Metab.1999, and even recently Ogawa Int J Biomed Imaging. 2012. Bibliography has to be corrected: reference (1) is out of subject, (6) Laera is "Van Laere". Bone scans or Octreotid scans are best examples than ventriculography. The Carlson phantom is not the best compared to the classical Hoffman or Jaszczak ones. Image statistics appear to be low compared to clinical acquisition. It	



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	would be interesting to have results in other different cases (hot or cold spots on a background, and a real scintigraphy) and to know the effect of denoising on resolution. The expression of PSNR is not clear. Prefer a conventional one (Wikipedia) In figure 1, a drawing of the phantom design is missing. In figure 6, adding the reference image should make the comparison easier. Contrast in figure 1 and 6 should be optimized in order to better show details. In figure 3, red curve: "semi" means Stein.	
<u>Optional/General</u> comments		

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