



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	Ms_BJMCS_19044
Title of the Manuscript:	Real-Time Volume Rendering of FCC Datasets Using Box-Splines on the Mobile Platforms
Type of the Article	Original Research Article

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
For evaluation of the quality of the volume rendering methods, you'd better use datasets with the same size. And I cannot agree with that "our experiments show that the FCC box-spline interpolation provides a slightly higher quality image" from the figures (6~8). Were the captions switched?	Thank you for your feedback. For the evaluation of the quality of the volume rendering method we used dataset with the same size and different size as well. In result section Table 1 shows the performance comparison for the same size datasets. We also compared different volume sizes, having the same density. Table 2 shows the performance comparison. It is seen that our results look more blurry in figure 6, it is because we are using a very small dataset with a low resolution, to claim this we carried out our test on the desktop with a high resolution dataset. The result, we got into the desktop is shown in figure 8, where we used the same density datasets and it proves that with a high resolution dataset FCC box-spline interpolation has better performance than linear interpolation. Also in figure 7 we compared the rendering results, it can be seen easily that linear interpolation has more jiggling whereas our method has more smooth and clear results. Conclusively our algorithm showed better quality due to the diminished number of data fetches, and thus the lower complexity of the spline pattern. We tried our best to make the things clear, hope it works. Thanks again for your feedback. We are grateful for the time and energy you expended on our behalf.