

[Review Form 2](#)

Book Name:	<a href="#">Scientific Research, New Technologies and Applications</a>
Manuscript Number:	Ms_BPR_3700
Title of the Manuscript:	Image Compression Based On Multiple Parameter Discrete Fractional Fourier Transform for Satellite and Medical Images
Type of the Article	BOOK CHAPTER

**PART 1: Review Comments**

<b>Compulsory</b> REVISION comments	<b>Reviewer's comment</b>	<b>Author's Feedback</b> <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>Please write a few sentences regarding the importance of this manuscript for the scientific community. Why do you like (or dislike) this manuscript? A minimum of 3-4 sentences may be required for this part.</b>	The manuscript provides a novel approach to image compression by leveraging the Multiple Parameter Discrete Fractional Fourier Transform (MPDFRFT). This technique appears valuable for applications requiring efficient compression with minimal loss, particularly in satellite and medical imaging. Its comparative advantage over existing methods such as Fourier Transforms and wavelets makes it a significant contribution to the field of image processing.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	The current title is suitable and accurately reflects the content of the manuscript. No changes are required.	
<b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b>	The abstract is comprehensive but can be improved by explicitly mentioning the experimental results, such as specific improvements in PSNR and compression ratios compared to existing techniques. This will provide clearer insight into the study's outcomes.	
<b>Are subsections and structure of the manuscript appropriate?</b>	The structure is logical, with clearly defined sections that build on one another. However, the introduction could better emphasize the MPDFRFT approach in comparison to prior methods.	
<b>Please write a few sentences regarding the scientific correctness of this manuscript. Why do you think that this manuscript is scientifically robust and technically sound? A minimum of 3-4 sentences may be required for this part.</b>	The manuscript demonstrates scientific robustness with sound mathematical formulations and a well-defined methodology. The use of metrics such as PSNR and MSE for performance evaluation ensures a reliable assessment of the proposed method. Additionally, the inclusion of multiple image categories strengthens the generalizability of the results.	
<b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b>	While sufficient references are provided, additional recent citations related to image compression and fractional transforms could enhance the manuscript's relevance. For instance, studies exploring real-time compression in medical imaging might add depth to the discussion.	
<b>Minor</b> REVISION comments  <b>Is the language/English quality of the article suitable for scholarly communications?</b>	The language is generally suitable for scholarly communication. However, certain sections, such as the introduction and discussion, could benefit from minor grammatical adjustments to improve clarity and readability.	
<b>Optional/General</b> comments	Consider including a practical use-case scenario, such as real-time compression in a satellite mission or a medical imaging setup, to demonstrate the system's potential impact further.  <ul style="list-style-type: none"> <li>The manuscript is scientifically sound and technically well-executed. However, addressing the minor revisions outlined above will improve the paper's overall quality and impact.</li> </ul>	

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**PART 2:**

	<b>Reviewer's comment</b>	<b>Author's comment</b> <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>
<b>Are there ethical issues in this manuscript?</b>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

**Reviewer Details:**

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