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| Book Name: | [**Medical Science: Recent Advances and Applications**](https://bookstore.bookpi.org/product/medical-science-recent-advances-and-applications-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_6130** |
| Title of the Manuscript: | **Medical Ultrasound Imaging: Ultrafast Beamforming Algorithms for Real-Time and High-Quality Imaging** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**Medical Research Archives, 12(12): 1-11, 2025.**

**DOI:** [**https://doi.org/10.18103/mra.v12i12.6177**](https://doi.org/10.18103/mra.v12i12.6177)

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **This manuscript holds significant value for the scientific community as it consolidates recent advancements in ultrafast beamforming algorithms (UF-BAs) for medical ultrasound imaging, a rapidly evolving domain with substantial clinical impact. By systematically analyzing algorithmic performance in terms of processing speed and image quality, it provides researchers and practitioners with critical insights for developing real-time, high-resolution imaging solutions** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **Suitable** |  |
| 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. | **Clearly identifies the domain (medical ultrasound imaging). States limitations of traditional methods. It can address future perspectives** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **Discussed scientifical facts** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | **Author can add 2023,2024,2025 articles also** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Better communication |  |
| Optional/General comments | The writing is generally clear, though certain sections—particularly the abstract and introduction—could be made more concise by reducing redundancy and improving the logical flow. Figures or diagrams illustrating the working principles of key UF-BAs could further enhance reader understanding. Including more details about dataset types, evaluation metrics, and comparative baselines would strengthen the reproducibility and scientific rigor of the work. Overall, the paper has strong potential to contribute meaningfully to both academic research and clinical practice in ultrasound imaging. |  |

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| **PART 2:** | | |
|  | **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)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |

**Reviewer details:**

**Meena L C, India**