

Review of: "Deep Learning in Medical Image Registration: Introduction and Survey"

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Potential competing interests: No potential competing interests to declare.

This paper provides a comprehensive review of various methods in medical image registration and presents a systematic dataset and evaluation metrics. The paper provides detailed explanations on the meaning of medical image registration, registration methods, and their applications. The content is solid and valuable. However, there are some areas that can be improved, so my overall suggestion is for a **"major revision"**. Here are some specific comments:

1. Consider adding an overview figure that allows readers to quickly and intuitively understand the structure of the review and the development of the research field.
2. Figures 3, 16, and 19 are blurry. Please consider improving their clarity. Also, some figures appear to be disorganized, with some text appearing large while others appear small. Consider making appropriate adjustments.
3. In Section 5.0, the author surveyed many researchers' methods, but did not provide comments or comparisons. Consider adding explanations and in-depth analysis to help readers understand the strengths and weaknesses of different methods.
4. The paper provides detailed descriptions of the methods, but some methods lack explanations of their applicable scenarios and advantages. Consider adding relevant information.
5. The discussion on future research directions seems somewhat vague.
6. There is a numbering error in the last paragraph (11.3 -> 10.3). Please carefully review the paper to ensure the correct formatting.