Review of: "Visualizing the Contraction Mapping Theorem"

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Potential competing interests: No potential competing interests to declare.

Review Report

Article Title: Visualizing the Contraction Mapping Theorem.

Authors: James E. Rauch * & Alexis Akira Toda†

Recommendation to Editor: **Resubmit for review, major revisions required.**

After going through the paper, the quality of the paper may be graded as follows:

i. **Contribution to existing knowledge** : **Moderately Medium,**
ii. **Organization and readability** : **Medium,**
iii. **Soundness of methodology** : **Up to the mark,**
iv. **Evidence supports conclusion** : **Medium,**

And

i. **Adequacy of literature review** : **Sufficiently good.**

Strengths:

i. The results proved in the paper are methodically correct but stereo type.
ii. The paper is focused on different aspects of value function iteration and convergence with an adequate sketch and outline of existing literature in this area.

Weaknesses:

i. Open problems generated from the results proved and the future course of work as a consequence of those results should be neatly sketched before the 'References' section,
ii. No examples and/or counterexamples are seen here to justify the validity of the results proved. Moreover, examples and/or counterexamples should be supported by preceding remarks. The authors should justify whether the conditions employed there are essential or not,
iii. No application(s) of the results proved here is (are) mentioned, and also no 'Conclusion' part is there &
iv. The reference list is not listed in the conventional sequence.

Suggestion(s) to the author:

The author should take into account the weaknesses as mentioned above and revise the paper accordingly.

Therefore, in my opinion, the paper may be accepted in the journal after resubmission implementing proper modifications and incorporation of the comments as made above.