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OPEN PEER REVIEW

Diagnosis and Classification of Brain Tumors from MRI Images Using the SVM Algorithm

Maryam Mehdipor Ghazvini, Vahab Dehlaghi, Arash Papi, Meysam Siyah Mansoory

SUBMITTED	REVISED	ACCEPTED	DOI
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About this report

This open peer review (OPR) report shows the public comments made on this article during peer review, by the reviewers, the associate editor and the editor-in-chief, for every revision round, together with the authors' replies. Comments appear only with the consent of the people who wrote them. Reviewers who chose to sign their report are named; the others are shown as "Referee". Comments are edited for language only, and confidential remarks to the editors are not included.

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1 Original submission

4 comments · 7 Jun 2024 – 14 Jun 2024

Referee 1 Reviewer

MAJOR REVISION 7 Jun 2024

1. It is not very clear what morphological features are used in the Tumor Diagnosis section. The authors should express this issue more clearly.
2. What are these 856 morphological and wavelet features?
3. The 856 morphological and wavelet features should be stated briefly or specified in a table.
4. Of the 856 extracted features, how many features did PCA consider essential components? This should be clearly mentioned by the authors.
5. The articles used in the discussion section should be updated.
6. Specificity is not written in the results section of the abstract.
7. The English writing of the article should be revised.

Mohammad Hossein Pourasad Reviewer

MINOR REVISION 14 Jun 2024

Dear editor
Hello
Thank you for choosing me as a referee for this article. My comments on the main text of the article are placed in the attachment.

Thanks

Associate Editor

MAJOR REVISION 14 Jun 2024

Minor Revision

Editor-in-Chief

MAJOR REVISION 14 Jun 2024

Major Revision

2

Revision 1

AUTHORS' RESPONSE TO REVIEWERS

Authors' reply to reviewers

The next pages contain the authors' point-by-point reply to the comments of this revision round, as submitted with the revised manuscript. It is published as the authors wrote it.

Reviewer 1:
1. It is not very clear what morphological features are used in the Tumor Diagnosis section. The authors should express this issue more clearly.

- ✓ **morphological features were rewritten in the “Tumor Diagnosis” section and the “Feature Extraction”.**

2. What are these 856 morphological and wavelet features?

- ✓ **Features were introduced in the Feature Extraction section.**

3. 856 morphological and wavelet features should be stated briefly or specified in a table.

- ✓ **Features stated briefly the Feature Extraction section.**

4. of the 856 extracted features, how many features did PCA consider as essential components? This should be clearly mentioned by the authors.

In this study, 160 features of MRI data have been extracted from MRI images using DWT features, and the number of features extracted is equal to 856, which are mean, average, contrast, strength, complexity, etc. Using the PCA method, these features have reached 19.

- ✓ **Based on these explanations, the Result section was reviewed.**

5. The articles used in the discussion section should be updated.

- ✓ **discussion section was updated.**

6. Specificity is not written in the results section of the abstract.

- ✓ abstract **section was restructured.**

7. The English writing of the article should be revised.

- ✓ **All articles were reviewed by a native expert.**

Reviewer 2:
Dear editor
Hello
Thank you for choosing me as a referee for this article. My comments on the main text of the article are placed in the attachment.

- ✓ **All the comments were addressed in the article.**

2 Revision 1

4 comments · 18 Jun 2024 – 23 Jun 2024

Mohammad Hossein Pourasad Reviewer — ACCEPT 18 Jun 2024

Accept

Referee 1 Reviewer — ACCEPT 23 Jun 2024

Accept

Associate Editor — ACCEPT 23 Jun 2024

Accept

Editor-in-Chief — ACCEPT 23 Jun 2024

Accept