



Title

[The title of the manuscript should be concise, specific, and relevant. It should clearly state the main result or conclusion of the manuscript, omitting implicit terms and avoiding abbreviations.]

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Abstract

[Suggestions: No more than 250 words. No citations. Define abbreviations at their first mention.]

Research articles require structured abstracts that concisely present the study's background, objectives, methods, key results, and conclusions in clear, accessible language, without citations, and include a clinical trial registration number when applicable.

Keywords: Keyword 1, keyword 2, keyword 3

[Typically, 3-8 keywords should be provided which can be used for describing the content of the manuscript and will enable the full text of the manuscript to be searchable online.]

1. Introduction

The Introduction section should succinctly introduce the study's background and rationale, highlight the research question or objective, summarize relevant literature, and outline the study's aims and scope. It sets the context for the study and justifies its importance in the field. Avoid including any data or conclusions from the study being reported.

2. Methods

The Methods section should clearly describe the study design, participants, interventions or exposures, outcome measures, data collection procedures, and statistical analyses to ensure reproducibility. Include study type, participant characteristics, instruments or tools used, and details of any AI technology applied (tool, version, and prompts). Ethical approval and informed consent should be stated when applicable, confirming compliance with relevant guidelines.

2.1 Level 2 heading

2.1.1 Level 3 heading

3. Results

The Results section should clearly present the study's findings, starting with participant demographics and baseline characteristics if relevant. Report key outcomes and variables using appropriate statistical measures (e.g., means, standard deviations, confidence intervals, frequencies, percentages) and illustrate results with tables, figures, or graphs without repeating all data in the text. Use statistical terms accurately and avoid interpretation or speculation, which belongs in the Discussion. Supplementary details can be provided in appendices or electronic materials.

Tips:

- *Cohesion and clarity:* Maintain cohesion throughout the section, ensuring that each part naturally leads to the next. The combination of results and discussion should be seamless, with clear connections between the data presented and the interpretations made.
- *Engagement with literature:* Continually engage with existing literature to contextualize your findings. This demonstrates how your work contributes to the broader scientific dialogue.
- *Avoid repetition:* Be concise and avoid unnecessary repetition. Ensure that each piece of data is directly linked to the corresponding discussion, without redundant explanations.



Table 1 (other forms: Table 1 and Table 2), **Figure 1** (other forms: Figure 1A,B; Figure 2a,b,c; Figure 1 and Figure 2A) and **Equation (1)** [other forms: Equation (2) and Equation (3)] show the examples of diagrams. All the tables, figures and equations should be cited in sequence in the main content near to the first time they appear. For supplementary material, authors may cite table, equation and figure like **Table S1**, **Figure S1** and **Equation S(1)**.

Table 1. Results of NASA-TLX from the main study^[1].

Participants	Action	M	SD
All	Pull	20.708	11.932
	Push	22.533	12.174
Male	Pull	21.173	12.222
	Push	22.000	12.164
Female	Pull	20.224	11.845
	Push	23.067	12.411

This part is footer. NASA-TLX: NASA Task Load Index.

Table notes:

- Tables should be cited in numeric order and placed after the paragraph where it is first cited;
- The table caption should be placed above the table and labeled sequentially (e.g., Table 1, Table 2);
- Tables should be provided in editable form like DOC or DOCX format (picture is not allowed);
- Abbreviations and symbols used in table should be explained in footnote;
- Explanatory matter should also be placed in footnotes;
- Non-English words should be avoided;
- Permission for use of copyrighted materials from other sources, including re-published, adapted, modified, or partial tables from the internet, must be obtained. It is authors' responsibility to acquire the licenses, to follow any citation instruction requested by third-party rights holders, and cover any supplementary charges.

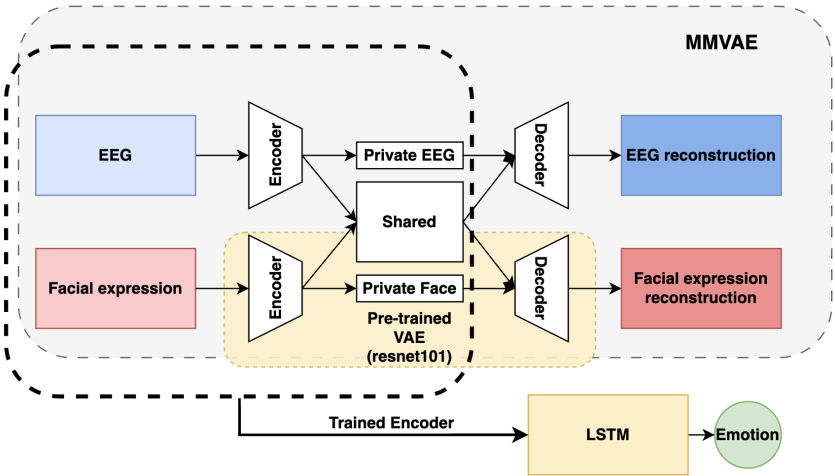


Figure 1. Overview of the DMMVAE-LSTM framework for multimodal emotion recognition. The MMVAE component extracts shared and private latent representations from EEG and facial expressions, with the facial encoder/decoder initialized using a pre-trained ResNet-101-based VAE. The trained encoder outputs are passed to an LSTM to model temporal dependencies and classify emotions^[2]. DMMVAE: disentangled multimodal variational autoencoder; LSTM: long short-term memory; MMVAE: multimodal variational autoencoder; EEG: electroencephalogram; VAE: variational autoencoder.

Figure notes:

- Figures should be cited in numeric order (e.g., Figure 1, Figure 2) and placed after the paragraph where it is first cited;
- Figures can be submitted in format of tiff, psd, AI or jpeg, with resolution of 300-600 dpi;
- The figure caption should be positioned below the figure;
- Diagrams containing descriptive text (such as flow charts, coordinate diagrams, bar charts, line charts, and scatter plots) should be editable in Word, Excel, or PowerPoint formats. Non-English information should be avoided;
- Labels, numbers, letters, arrows, and symbols within figures should be clear, uniform in size, and contrast with the background;
- Symbols, arrows, numbers, or letters used to identify parts of the illustrations must be identified and explained in the legend;

- For figures with multiple panels, each panel should be distinctly labeled (A), (B), (C), etc;
- Internal scale (magnification) should be explained and the staining method in photomicrographs should be identified;
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- All non-standard abbreviations should be explained in the legend;
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$$J = \frac{9}{8} \varepsilon_0 \varepsilon_r \mu \frac{E^2}{L}$$

Equation note:

- Equations should be provided in editable form (image file format is not allowed).

4. Discussion

The Discussion should interpret the results in the context of existing literature, highlighting key findings, their implications, and study limitations.

5. Conclusion

The Conclusion should highlight the study's contributions, link findings to the study's objectives, and suggest future research or practical implications.

Tips:

- Avoid unsupported statements, overgeneralizations, or claims of priority.
- Distinguish between clinical and statistical significance, refrain from economic claims without supporting data, and clearly label any new hypotheses.

Declarations

Acknowledgments

Anyone who contributed towards the article but does not meet the criteria for authorship, including those who provided professional writing services or materials, should be acknowledged. Authors should obtain permission to acknowledge from all those mentioned in the Acknowledgments section. This section is not added if the author does not have anyone to acknowledge.

Authors contribution

Each author should have contributed significantly to the conception, design, acquisition, analysis, or interpretation of data, or the creation of new software used in the work, or substantively revised the manuscript. Contributions should be indicated using Surname and Initials of Forename.

For example:

Single author:

The author contributed solely to the article.

Two or more authors:

Pal U, Li M: Data analysis and interpretation.

Tian P, Bella F: Article conception and design.

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Conflicts of interest

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This section should mention that consent to participate was obtained from all participants or their legal representatives, ensuring that participants were fully informed about the study's purpose, procedures, risks, and benefits before consenting to participate.

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References

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2. Mahaseni B, Khan NM. Multimodal emotion recognition with disentangled representations: private-shared multimodal variational autoencoder and long short-term memory framework. *Empath Comput.* 2025;1:202507. [DOI:10.70401/ec.2025.0010]

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