主　题:	[A] Transactions on Audio, Speech and Language Processing - Manuscript T-ASL-10632-2023.R1 Dynamic Logic Reasoning Model for Argumentation Relation Classification
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02-May-2025

Mr. Sun Yang
Shenzhen University Town
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Paper: T-ASL-10632-2023.R1 "Dynamic Logic Reasoning Model for Argumentation Relation Classification".

Dear Mr. Sun Yang:

We are pleased to inform you that the above manuscript has been ACCEPTED for publication as a REGULAR paper in the IEEE Transactions on Audio, Speech and Language Processing.

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Thank you!

Best regards,

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IEEE Transactions on Audio, Speech and Language Processing
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Breanna Cameron
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IEEE Signal Processing Society
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Reviewer Comments:

Reviewer: 2

Recommendation: A - Publish Unaltered

Comments:
Dear Authors,

Most of my concerns from the previous version have been addressed in the current version of the paper. The paper has a stronger literature review and is now contextualised better, acknowledging recent work in the area of argument mining. Furthermore, both the nature of the task addressed in the paper and the error analysis have been clarified. I therefore consider this paper fit for publication.

Additional Questions:
1. Is the topic appropriate for publication in these transactions?: Adequate Match

1. Is the paper technically sound?: Yes

2. How would you rate the technical novelty of the paper?: Very Novel

Explain: The integration of reasoning features into argument mining models is an aspect that has not been researched in depth yet. Adding these features to the argument mining process seems a fundamental part of it, given the nature of arguments and the

observed limitations of argument mining models focusing exclusively on word distributions.

3. Is the contribution significant?: Moderately Significant

4. Is the coverage of the topic sufficiently comprehensive and balanced?: Yes

5. Rate the Bibliography: Satisfactory

If you are suggesting additional references they must be entered in the text box provided. All suggestions must include full bibliographic information plus a DOI.
: The bibliography coverage and contextualisation of the paper has been significantly improved from the previous version.

1. How would you rate the overall organization of the paper?: Satisfactory

2. Are the title and abstract satisfactory?: Yes

3. Is the length of the paper appropriate? If not, recommend what should be added or eliminated.: Yes

4. Are symbols, terms, and concepts adequately defined?: Yes

5. How do you rate the English usage?: Satisfactory

Reviewer: 1

Recommendation: A - Publish Unaltered

Comments:
In my view, the refinements of the figures and explanations in the paper are much better now. Thanks for incorporating my feedback in the revised version!

Additional Questions:
1. Is the topic appropriate for publication in these transactions?: Excellent Match

1. Is the paper technically sound?: Yes

2. How would you rate the technical novelty of the paper?: Novel Enough for Publication

Explain: The main technical components in this paper rely on known concepts (dynamic routing, GrapNN, etc.) but are modeled in a novel way for computational argumentation(CA). That is, each type of graph cell is chosen and designed problem-specific to enable the interaction between argument components (AC) based on syntactic, logical, and semantic relationships between the words within ACs.

3. Is the contribution significant?: Significant

4. Is the coverage of the topic sufficiently comprehensive and balanced?: Yes

5. Rate the Bibliography: Satisfactory

If you are suggesting additional references they must be entered in the text box provided. All suggestions must include full bibliographic information plus a DOI.
: None. In my view, the selected references are comprehensive enough and appropriate for the paper. However, I appreciate the revised related work section.

1. How would you rate the overall organization of the paper?: Satisfactory

2. Are the title and abstract satisfactory?: Yes

3. Is the length of the paper appropriate? If not, recommend what should be added or eliminated.: Yes

4. Are symbols, terms, and concepts adequately defined?: Yes

5. How do you rate the English usage?: Satisfactory