

CohExplore: Visually Supporting Students in Exploring Text Cohesion

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ABSTRACT

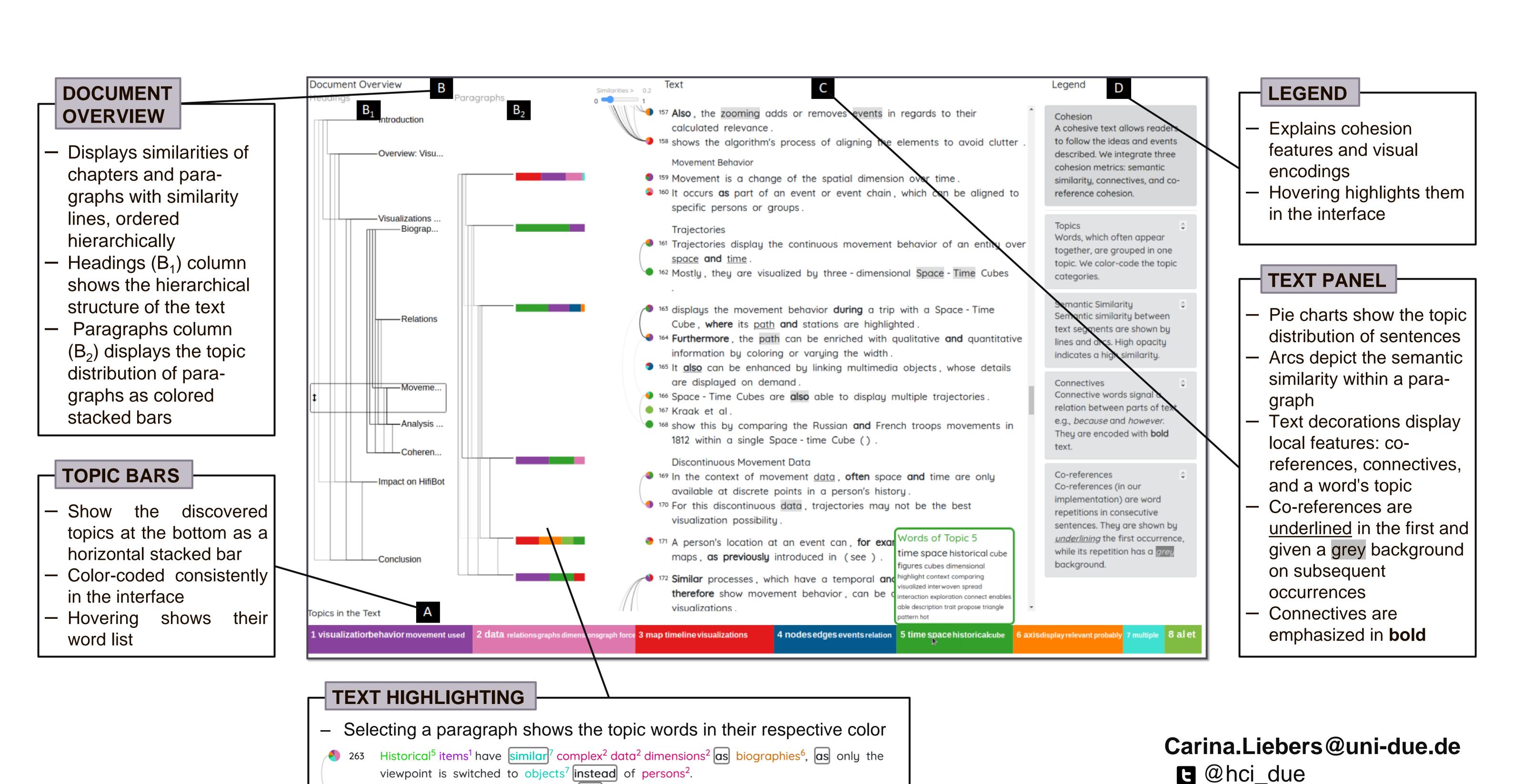
A cohesive text allows readers to follow the described ideas and events. Exploring cohesion in text might aid students enhancing their academic writing. We introduce CohExplore, which promotes exploring and reflecting on cohesion of a given text by visualizing computed cohesion-related metrics on an overview and detailed level. Detected topics are color-coded, semantic similarity is shown via lines, while connectives and co-references in a paragraph are encoded using text decoration. Demonstrating the system, we share insights about a student-authored text.

APPLICATION EXAMPLE

- Imbalanced structure in the Overview Panel: Only one chapter,
 "Visualizations of Historical Figures and Events", has subchapters;
 Further, imbalanced similarity based on the similarity lines
- High similarity of the subchapters "Movement Behavior and Analysis of Historical Items": Common themes one topic1 ■ and five topic5 ■
- Conclusion section has highly varying similarities between sentences: Varying pie chart colors indicate abrupt topic shifts (l. 263
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 ; Absence of co-references might make the section harder to follow.

E @shivamlearning

B @beck_fabian



264 It reaches from combining³ maps¹ and timelines⁷ to specialized⁶ Space⁵- Time⁵ Cubes⁵.

demand⁴ play⁴ an important role.

As before, interactions⁴ like⁴ linking⁴, filtering⁴, and selecting⁴ and showing¹ details⁴ on