

## ≻ldea:

- $\bigcirc$
- Ο
- > Approach for extractive summary
  - Construct a graph to represent the utterances in the document Ο (node: utterance, edge: weighted by topical/lexical similarity)
  - Use the graph to compute importance of each utterance Ο

Node: utterances in a doc.

between utterances

important

- - Weight the edge similarity if two

partially share the importance



The first author was supported by the IES, U.S. Department of Education, through Grant R305A080628. Any opinions, findings, and conclusions or recommendations do not EDUCATION SCIENCES necessarily reflect the views or official policies, either expressed or implied of the Institute or the U.S. Department of Education.

# **Intra-Speaker Topic Modeling for Improved Multi-Party Meeting Summarization with Integrated Random Walk** Yun-Nung Chen and Florian Metze

## Summary

Important utterances are topically/lexically similar to each other Utterances from the same speaker usually focus on similar topics

Random Walk



n	<ul> <li>Graph-based approach can impro</li> </ul>
m →	using lexical or topical similarity
	<ul> <li>Topics from the same speaker car</li> </ul>
	<ul> <li>For manual transcriptions, random</li> </ul>
	similarity performs best
,	<ul> <li>For ASR transcriptions, integrated</li> </ul>
	because lexical and topical similar
	• Lexical similarity measures word
9	<ul> <li>Topical similarity compensates th</li> </ul>



- ne negative effects of recognition errors on similarity evaluated on word overlap to some extent