【招待講演】

Proposition-based Summarisation -- a first implementation

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I will discuss joint work with my student Yimai Fang. I will present an implementation of the text-understanding -based summarisation idea by Kintsch and van Dijk (1978), which assumes that summarisation can be simulated by an incremental text-understanding process which operates within human memory limitations. The model is "deep", and current technology in NLP can of course not capture all that would be needed to fully instantiate the model. The model is nevertheless interesting because it allows us to pinpoint the NLP areas where improvement can demonstrably result in better summaries -- namely the areas of coreference resolution and WSD, as I will demonstrate. The model is also interesting because in an extensive evaluation, it beats current models based on lexical semantics, centroid-based sentence centrality, and also those based on the random walk model in networks. I will end the talk with a demo of the system, and a discussion of which genres lend themselves best to this type of research.