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Multiple Media Stream Data Analysis: Theory and Applications

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Abstract

The talk presents a new model for multiple media stream data analysis as well as descriptions of some applications of this model in development at Dartmouth College. While most multimedia data analysis has focused on analysis of single media components, two or more (potentially heterogeneous) media streams will often have useful correlations which can aid information retrieval, compression, and even lead to new classes of applications such as speaker localization in video sequences and text-to-speech alignment. The model described in the paper formalizes the exploitation of these correlations including the temporal alignment of components, transformation of content to a correlation domain, and the correlation process. The output of the process can be locality data, temporal alignment characteristics, or statistical correlation data. Some existing and emerging applications such as lip synchronization and semantic bandwidth compression are described in the context of this model and new applications, including text-to-speech alignment, speaker localization, and degraded media realignment, are described.

Gastgeber: Prof. Dr. Thomas Ottmann

Alle Interessenten sind recht herzlich eingeladen.

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