Word Cloud

Most of us speak every day without knowing the power of deep learning in speech. As we are interested in carrying out signature work projects related to intelligent speech, it is crucial to clearly and concisely visualize the research papers related to speech in order to comprehend and monitor the ment and trends in this subject. By visualizing the patterns and progress in speech research, we can better comprehend how the field is going and apot any potential roadblocks or issues that may arise. Visualization can also serve to simplify difficult ideas and provide users with a more intuitive understanding of advances in the recent research on speech recognition, verification, or swithesis. It is essential to stay current on the most recent trends and advancements, given the fast-paced nature of this industry, and visualization is a potent tool that can assist us in achieving this aim.



Bar Chart Race

This is a bar chart race visualization that dynamically displays the changes in word usage over time in the abstract section of research papers.



The co-occurrence network created using SigmaJS and Gephi.

authors with papers in the top 100 Each node represents an author. with the size of the node reflecting its weighted degree.

- The color of each node corresponds to its weighted Edges represent co-occurrence
- relationships between two The individual networks depict the



by the author. The edges in these networks display co-author relationships between authors, with thicker edges indicating stronger collaboration.

This is an interactive word cloud The length of each bar reflects the that shows the Top 250 common terms in the abstract part of Press 'Load Data' and 'Start/Restart' papers . The size of each word reflects buttons to generate the bar chart race. the number of occurrences. Press "Stop" button to stop the animation and see the accumulative Hover over the words to see Instructor: Prof. Xin Tong

SPEECH RESEARCH TREND VIS

A STATS401 Final Project

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