Weekly Report

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Recap

I mainly put my effort on two things this week. One is ADSP project, which is about Acoustic Echo Cancellation. Another one is the literature survey of image retrieval.

Acoustic Echo Cancellation Ⅰ

- Look up materials of adaptive filters, including LMS filters, RLS filters, FilteredXLMS filters, etc. Review papers of acoustic echo cancellation.
- Program with MATLAB to implement this function. Design a MATLAB GUI to choose different filter types and display waveform/spectrogram outcomes.
- Write a detailed report of this project and make a PPT with my teammates.

Literature Survey of Image Retrieval

- After reviewing classical papers and other reserchers' literature survey of image retrieval, I got a whole picture of this field, which could be classified as TBIR, CBIR, SBIR (CBIR based on advanced features) . I got familiar with common features, hashing technics, etc. Then I plan to study how to search for a specific object on a large remote sensing image.
- Learn how to use CiteSpace software to get co-citation network to understand a specific research field.
- Gave a one-hour presentation about the literature survey of image retrieval.