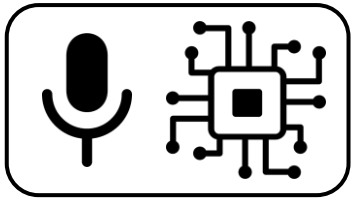
Computational Analysis of Sound and Music

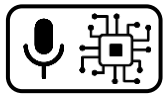


Research Project – Literature Research

Dr.-Ing. Jakob Abeßer

Fraunhofer IDMT

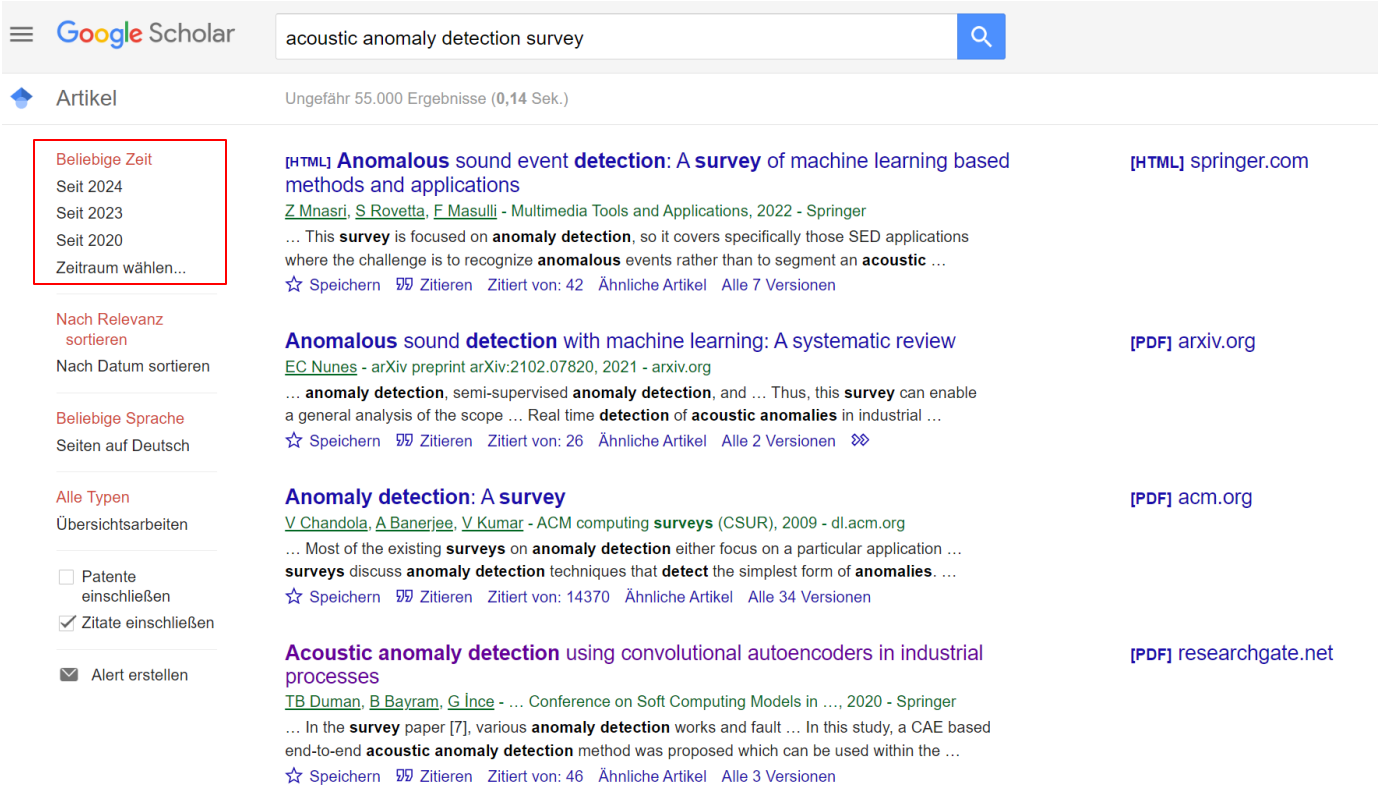
jakob.abesser@idmt.fraunhofer.de



Literature Research

Sources

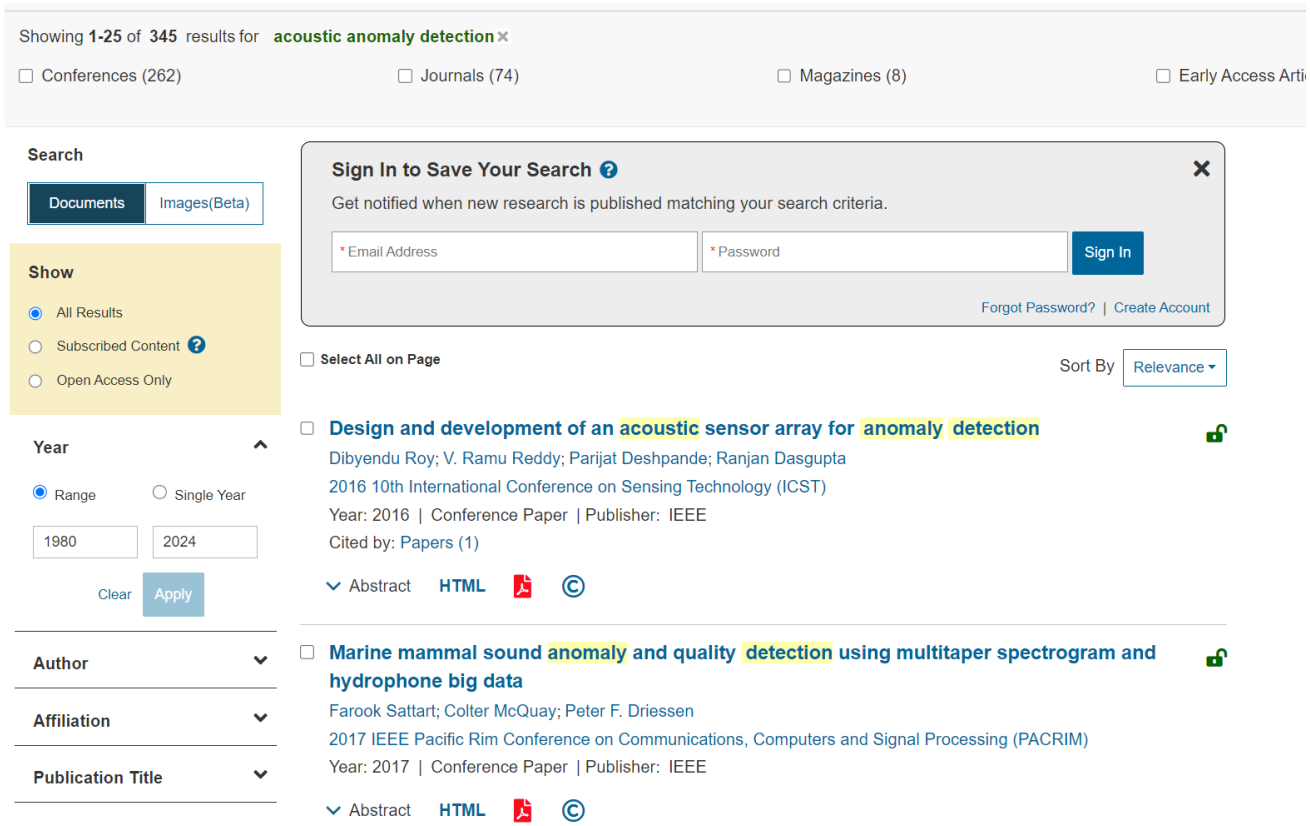
- https://scholar.google.de/



Literature Research

Sources

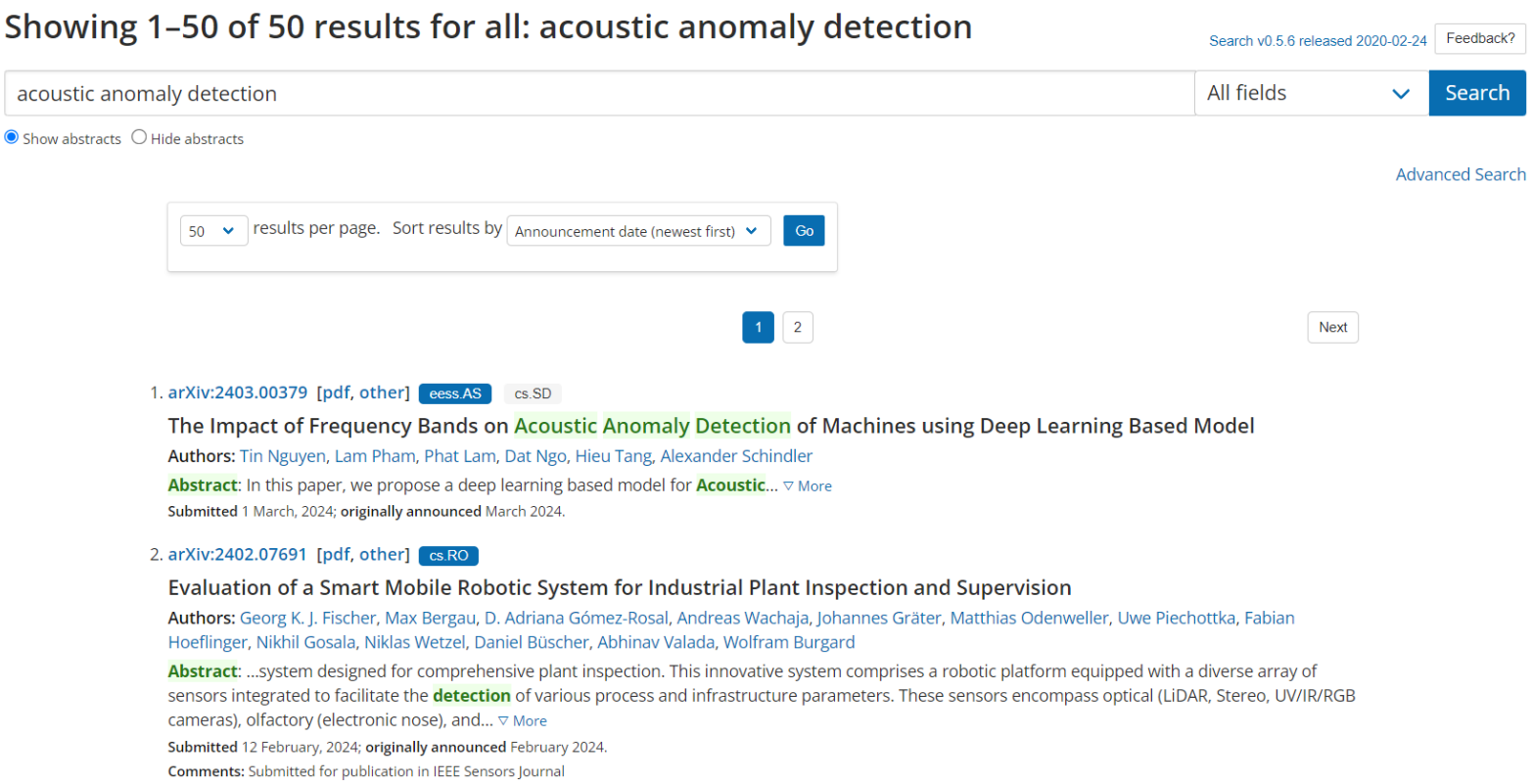
- https://ieeexplore.ieee.org/Xplore/home.jsp



Literature Research

Sources

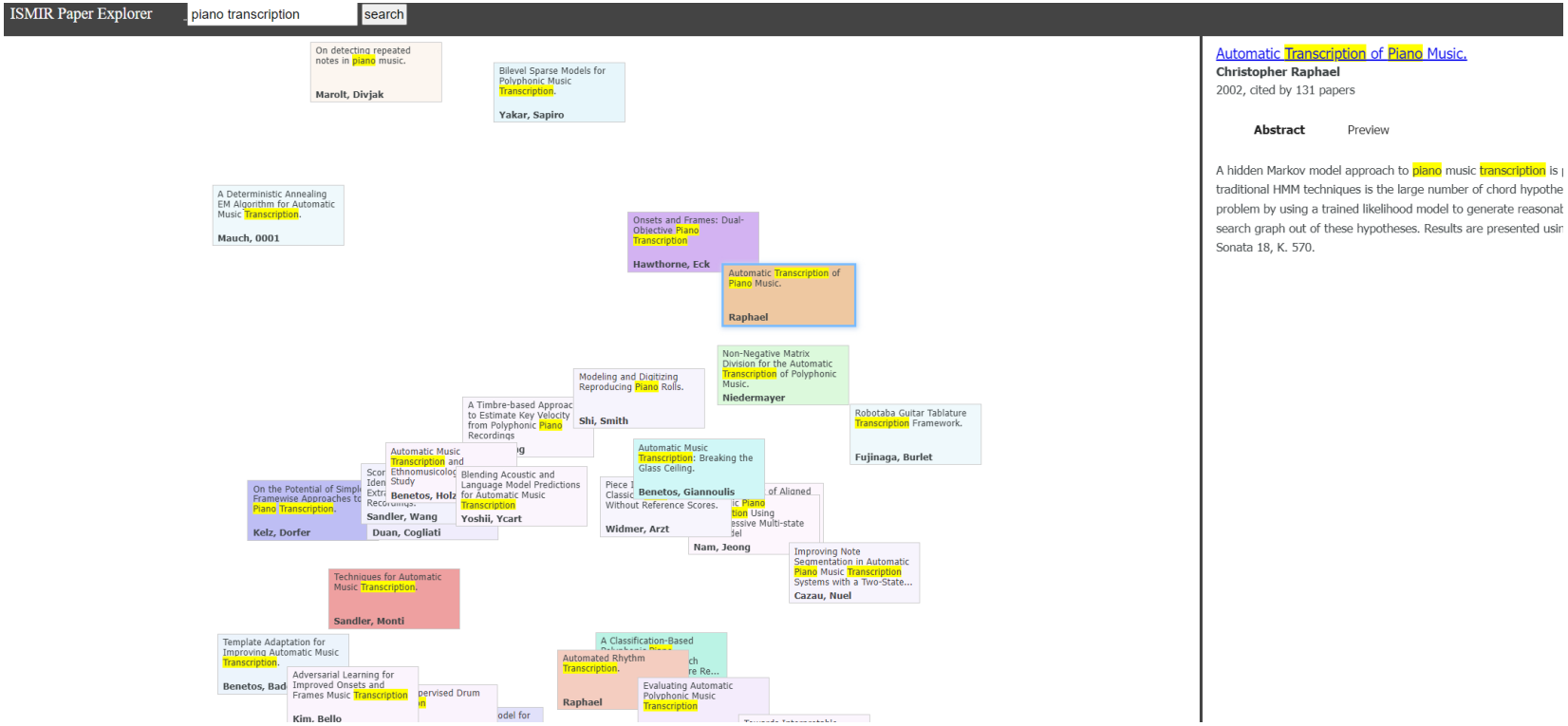
- https://arxiv.org/



Literature Research

Sources

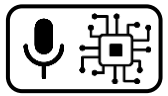
- https://ismir-explorer.ai.ovgu.de/app/



Literature Research

General recommendations

- Focus first on most recent publications (2020-2024)
- Reverse literature research (check references of references)
- Focus on conference papers (high-ranked conferences: ISMIR, DAFx, ICMC, IEEE …)
- Articles are around 8-12 pages -> more comprehensive review
- Look for “review paper” / “survey paper” as a starting point

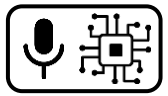


Literature Research

How to (quickly) read a paper?

- First skim through (fast read-through)
  - Introduction
  - Conclusion
  - Figures

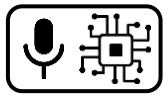
- Second (more detailed) read (if promising)
  - (Methodology)
  - (Evaluation & Results)



Literature Research

How to take notes

- Mark passages using PDF reader (Acrobat Reader)
- Save reference metadata (be thorough once, and relaxed later)
- Rename PDF files consistently (e.g. using the BibTex key)
- Take bullet point notes in text file (or LaTeX project)



Literature Research

How to take notes (continued)

- Think of categories/criteria to compare different methods

	Feature	Dataset	Model
Author1	MFCC	AudioSet	CNN
Author2	Mel Spec	AudioSet	Transformer
Author3	Mel Spec	FSD50k	CRNN

- This can give your related work section a structure later (one paragraph for each column)