



# Instruments for forest concerts in silence

Real-time site specific acoustic experiential qualities via 6G

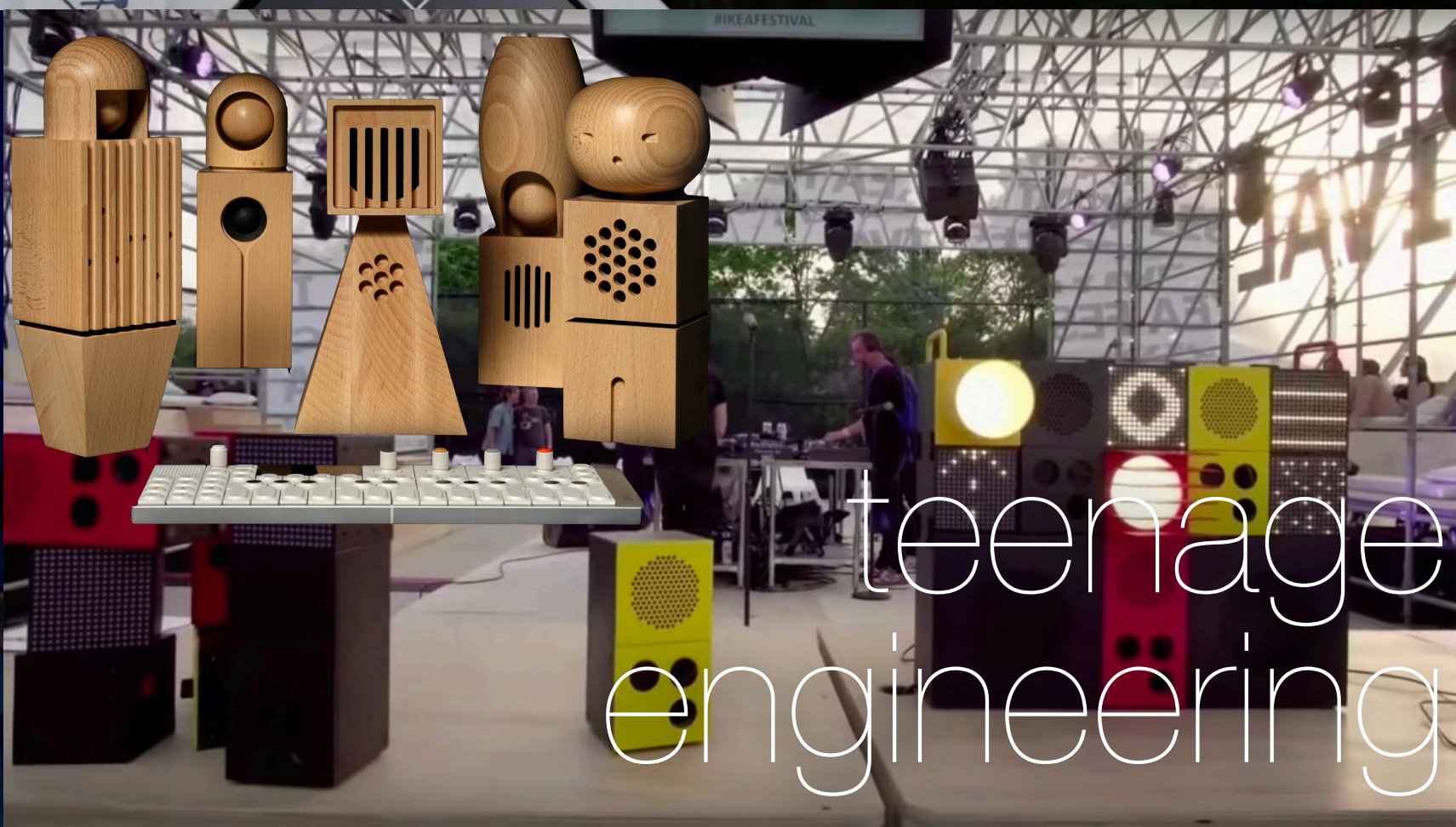
Rikard Vilhelm Lindell 2024-07-17





# IRESAP

Information retrieval in embedded systems for audiovisual artistic processes



teenage engineering



# Sonic Serendipity: Embracing discovery in file finder-based improvisation

- Austin Franklin, Henrik Frisk, and Rikard Lindell
- The Unfinder allows users to search and improvise music with audio files.
- Exploit the balance between retrieving audio material and the potential for failure to do so.
- Content and metadata based music information retrieval.
- Small dataset (tiny), 256 audio files of 671 megabytes.
- Our own material, no stock samples.
- Kohonen network, self organising maps (SOM).



# Sonic Serendipity: Embracing discovery in file finder-based improvisation



Centroid Spread Skewness Kurtosis Entropy **Flatness** Crest Flux Slope Rolloff Duration Date

"WAV / WAVE (Waveform Audio)"  
"2018"  
"Logic Pro X"

▶ 132.02 Duration (secs)  
▶ 2. Channels  
▶ 44100. Sample Rate  
▶ 16. Bits Per Sample

## THE UNFINDER

v1.0.1

### FILE LIST

- drone-wind.wav
- emergency.wav
- huge.wav
- long.wav
- megs-storm.wav
- noise.wav
- reverbbells.wav
- slow-atmosphere.wav
- stormy.wav
- synth-horizons.wav

LOOP PLAY STOP RESET

Low Range High Range Feature File

noise.wav reverbbells.wav slow-atmosphere.wav huge.wav

Gain Speed Reverb



# Sonic Serendipity: Embracing discovery in file finder-based improvisation

- Evaluation with nine users, novice, music producers, composers, SMC researchers
- five themes: perception, parameterisation, identity, agency, and imaginaries.
- Current work: combining the features.
- Future work: including spatial experiential qualities, building prototypes, compositions and concerts.

