Exploring and Classifying New Interfaces for Musical Expression

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Background

• NIMEs are instruments built combining musical concept with computer science and engineering techniques.
• Research combines instrument design and performance into a single role.
• Instruments therefore have high variability & potential for rapid changes.
Background (ctd.)

https://youtu.be/JnLylwvWlpE?t=8
Project Aim

• NIMEs are extremely variable – how can we map the problem space?
• What has been done, and what’s left to be done?
Prior Work

• Multiple papers have been published breaking down different “dimensions” of NIMEs
  – These only analyse a small amount of instruments.

• Our work combines & updates aspects from each and applies it to a larger array of papers.
Process

• Develop Classification
  – “Dimensions”
  – Categories / Benchmark Positions

• Survey Previous NIMEs
  – NIME Proceedings
  – Focus on specific instruments over prototypes.

• Visualisation / Exploration (Time-Dependent)
Current Status

• Developed an initial set of dimensions.
• Surveyed 2019 proceedings.
• Continuing to refine classification and surveying earlier years
• Eventually build visualisations.
Questions?