Annotated Bibliography

Sam Smith

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References

[1] Ruohua Zhou, Joshua D Reiss, Marco Mattavelli, and Giorgio Zoia. A computationally efficient method for polyphonic pitch estimation. *EURASIP Journal on Advances in Signal Processing*, 2009(1):729494, 2009.

This research paper outlines a new method for estimating polyphonic pitches. At the heart of the process is the constant-Q Fast Resonator Time-Frequency Image (RTFI) analysis, which is essentially a function that is able to track the time-frequency characteristics of the input signal. The paper formally breaks down the method into two main processes: time-frequency analysis and post-process phases. Section 3.2 further breaks down the steps into 5 core components, most notably: using RTFI to calculate the time-frequency energy spectrum, calculating the harmonic components and computing pitch candidates and removing noise. The paper includes additional citations, all of which use different methods for estimating polyphonic pitches, which may be good for comparing methods and better understanding the problem as a whole.