

# MULTIPLE-F0 ESTIMATION FOR MIREX 2014

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## ABSTRACT

In this submission for MIREX 2014 we propose a novel multi-F0 detection system which operates by performing frequency and periodicity analysis jointly. The system takes the log-scaled spectrum and the generalized cepstrum as the frequency and periodicity representations, respectively. After a pre-processing stage, the system then utilizes a harmonic selection process to determine the fundamental frequencies in the pitch scale. Finally, the system performs a post-processing stage for temporal smoothing and removing outliers.



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