A novel pitch evaluation method based on a cross-correlation filter

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1. If present pitch evaluation methods meet noise?

2. 1D sinusoidal grating-probed signal filtering

3. Pitch evaluation after cross-correlation filtering

4. Application of cross-correlation filter to signal of 1D, p-periodic and arbitrary-structured grating

5. Experiments and results

5.1 Agreement between evaluated pitch and true pitch value

Table 1 Simulation results of average pitch deviations and variations (arbitrary units)

Table 2 Average pitch and uniformity (STD) by PD method

5.3 In-plane tilt angles measurement

Acknowledgements

References