

Compensation of the two-stage phase-shifting algorithms with respect to detuning and harmonics

Wednesday, 4 September 2013 14:00 (2 hours)

Abstract content **
(Max 300 words)
Special Chars**

The study of two-stage phase-shifting algorithms is a topic of recent research, specially the Fourier analysis of these algorithms with respect to insensitivity properties to various error sources. The main motivation of this paper is to propose two-stage phase-shifting algorithms with insensitivity properties to detuning and harmonics for the two sets of interferograms with different or equal reference frequencies.

In this work the design of two-stage phase-shifting algorithms is based on the development of generalized equations that consider non-constant phase shifts. The analysis of the frequency sampling functions representing these algorithms is also considered.

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Track Classification: Poster Presentation