

Fourier based stabilisation of thermal images in dynamic thermography

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Abstract

In active dynamic thermography (ADT) sequences of consecutive temperature distributions are analysed. In biomedical applications of ADT some additional problems of movements of examined objects in front of thermal camera arise. Complete mechanical stabilisation of the patient is impossible due to natural voluntary and involuntary movements caused by pulse, breathing, etc. This paper presents a simple and efficient image sequence stabilisation method based on the two dimensional Fourier Transform.

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