Accepted Manuscript

Vortical Features for Myocardial Rotation Assessment in Hypertrophic Cardiomyopathy using Cardiac Tagged Magnetic Resonance

Santiago Sanz-Estébanez, Lucilio Cordero-Grande, Teresa Sevilla, Ana Revilla-Orodea, Rodrigo de Luis-García, Marcos Martín-Fernández, Carlos Alberola-López

PII: \$1361-8415(18)30089-6 DOI: 10.1016/j.media.2018.03.005

Reference: MEDIMA 1350

To appear in: Medical Image Analysis

Received date: 6 June 2017
Revised date: 10 January 2018
Accepted date: 14 March 2018



Please cite this article as: Santiago Sanz-Estébanez, Lucilio Cordero-Grande, Teresa Sevilla, Ana Revilla-Orodea, Rodrigo de Luis-García, Marcos Martín-Fernández, Carlos Alberola-López, Vortical Features for Myocardial Rotation Assessment in Hypertrophic Cardiomyopathy using Cardiac Tagged Magnetic Resonance, *Medical Image Analysis* (2018), doi: 10.1016/j.media.2018.03.005

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Highlights

- A novel curl-based rotation measurement built from tensorial magnitudes is proposed.
- Proposed rotation descriptor makes no assumption about the cardiac topology.
- Locally increased vorticity values are present in hypertrophied myocardial segments.
- Extracted vortical features have proven useful in cardiomyopathy discrimination.

Download English Version:

https://daneshyari.com/en/article/6877896

Download Persian Version:

https://daneshyari.com/article/6877896

<u>Daneshyari.com</u>