Reviewer’s report

Title: Three-dimensional mapping of mechanical activation patterns, contractile dyssynchrony and dyscoordination by two-dimensional strain echocardiography. Rationale and design of a novel software toolbox.

Version: 1 Date: 24 April 2008

Reviewer: Michele Masini

Reviewer’s report:

An interesting, original and clearly presented study describing a novel method to assess left ventricular dyssynchrony from 2D strain echocardiography data generating a 3D mapping of mechanical activation patterns. The method proposed is spectacular and promising.

I have only minor comments:

1. Please, delete the first line of page 4.
2. Page 5, line 4: above mentioned.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.