

Accepted Manuscript

A Hybrid Patient-Specific Biomechanical Model Based Image Registration Method for the Motion Estimation of Lungs

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PII: S1361-8415(17)30055-5
DOI: [10.1016/j.media.2017.04.003](https://doi.org/10.1016/j.media.2017.04.003)
Reference: MEDIMA 1245



To appear in: *Medical Image Analysis*

Received date: 8 August 2016
Revised date: 24 January 2017
Accepted date: 11 April 2017

Please cite this article as: Lianghao Han, Hua Dong, Jamie McClelland, L.X. Han, David Hawkes, Dean Barratt, A Hybrid Patient-Specific Biomechanical Model Based Image Registration Method for the Motion Estimation of Lungs, *Medical Image Analysis* (2017), doi: [10.1016/j.media.2017.04.003](https://doi.org/10.1016/j.media.2017.04.003)

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1 **Highlights**

- 2 • A hybrid image registration approach for lung motion estimation is proposed.
- 3 • Biomechanical models estimate lung motion with compensation from image regis-
4 tration.
- 5 • The method allows more accurate motion estimations on lung surface regions.
- 6 • Displacement compensation analysis can help optimising biomechanical models.

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