

Accepted Manuscript

Joint Segmentation of Bones and Muscles Using an Intensity and Histogram-Based Energy Minimization Approach

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PII: S0169-2607(17)30940-9
DOI: [10.1016/j.cmpb.2017.12.027](https://doi.org/10.1016/j.cmpb.2017.12.027)
Reference: COMM 4584

To appear in: *Computer Methods and Programs in Biomedicine*

Received date: 29 July 2017
Revised date: 11 November 2017
Accepted date: 22 December 2017

Please cite this article as: Pérez-Carrasco Jose Antonio , Acha Begoña , Suárez-Mejías Cristina , López-Guerra Jose Luis , Serrano Carmen , Joint Segmentation of Bones and Muscles Using an Intensity and Histogram-Based Energy Minimization Approach, *Computer Methods and Programs in Biomedicine* (2017), doi: [10.1016/j.cmpb.2017.12.027](https://doi.org/10.1016/j.cmpb.2017.12.027)

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Highlights

- A new energy minimization based approach for segmenting muscles and bones is proposed.
- The proposed algorithm can be applied to surgery planning, disease diagnosis, analysis of fractures and/or bone/muscle densities.
- The proposed energy function includes distance to histogram models of bone/muscle combined with gray-level information.
- The algorithm outperforms other state-of-the art multi-label segmentation schemes.

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