

# Alberto Gomez, PhD

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👤 Alberto Gomez (Google Scholar)

I have authored or co-authored over **70 publications** (Google Scholar metrics: **h-index 14**, **i-10 index 22**, **578 citations**), including over **20 articles** in high-profile international journals with high impact factor (IF) such as *PLoS Computational Biology*, *IEEE Transactions on Medical Imaging (IEEE-TMI)* (IF=7.816), *IEEE Transactions on Biomedical Engineering (IEEE-TBME)* (IF=4.288), *Medical Image Analysis (MedIA)* (IF=11.148), *Progress in Biophysics and Molecular Biology* (IF=2.703), *JTCVS Techniques*, and *Hypertension* (IF=7.017); and over **30 conference papers** in top technical conferences such as *Medical Image Computing and Computer Assisted Interventions (MICCAI)*, *Information Processing in Medical Imaging (IPMI)*, *IEEE International Symposium on Biomedical Imaging (ISBI)*, *IEEE Engineering in Medicine and Biology (EMBC)*, *Functional Imaging and Modeling of the Heart (FIMH)*, *Medical Image Understanding and Analysis (MIUA)*, *IEEE International Ultrasonics Symposium (IUS)*, and other; and top clinical conferences such as *EuroEcho*, the meeting of the European Association of Cardio Thoracic Surgeons (*EACTS*), and the meeting of the Association for European Paediatric Cardiology (*AEPC*).

## Full Publication List

### Books and Editorial Work

- [1] A. Gomez, J. Hutter, and others (Eds), *Smart Ultrasound Imaging and Perinatal, Preterm and Paediatric Image Analysis*. Springer.

### Preprints

- [2] A. Gomez, *MIPROT: A medical image processing toolbox for MATLAB*, 2021. [Online]. Available: <https://arxiv.org/abs/2104.04771>.
- [3] S. Treivase, A. Gomez, J. Matthew, E. Skelton, J. A. Schnabel, and N. Toussaint, *Screen tracking for clinical translation of live ultrasound image analysis methods*, 2020. [Online]. Available: <https://arxiv.org/abs/2007.06272>.
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### Journal Papers

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- [6] K. Pushparajah, K. Y. K. Chu, S. Deng, G. Wheeler, A. Gomez, S. Kabir, J. A. Schnabel, and J. M. Simpson, “Virtual reality three-dimensional echocardiographic imaging for planning surgical atrioventricular valve repair”, *JTCVS Techniques*, 2021.
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- [11] G. Wheeler, S. Deng, K. Pushparajah, J. Schnabel, J. Simpson, and A. **Gomez**, "A virtual linear measurement system for accurate quantification of medical images", *Healthcare Technology Letters*, 2019.
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- [13] L Peralta, **Gomez, A**, Y Luan, B Kim, J. Hajnal, and R. Eckersley, "Coherent multi-transducer ultrasound imaging.", *IEEE transactions on ultrasonics, ferroelectrics, and frequency control*, 2019.
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#### Theses

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