List of publications of Prof. Antonio J. Gil, ICCP, CAS, PhD, SFHEA

I. Books.


II. Invited contribution to books.


III. Editorial books and journals.


IV. Full papers in refereed journals.

**Under review**


2023


2022


2021


2020


2019


2018


2017


2016


2015


2014


2013


2012


2011


2010


2009


2008


2007


2006


V. Conference publications.

2024


2023


2022


2021


2020


2019


2018


2017


90. S. Bagwell, P. D. Ledger and A.J. Gil, “Non-linear transient simulation of coupled acousto-magneto-mechanical systems in MRI scanners”. In proceedings of the 7th International Conference on Computational Methods for coupled problems in science and engineering, Rhodes Island (Greece), June 12-14, 2017.

89. R. Poya, A.J. Gil and R. Ortigosa, “Development of monolithic and staggered schemes for coupled electromechanics with high order curvilinear finite elements”. In proceedings of the 7th International Conference on Computational Methods for coupled problems in science and engineering, Rhodes Island (Greece), June 12-14, 2017.


87. R. Ortigosa and A.J. Gil, “A computational framework for incompressible electro-mechanics based on convex multi-variable strain energies for geometrically exact shell theory”. In proceedings of the 7th International Conference on Computational Methods for coupled problems in science and engineering, Rhodes Island (Greece), June 12-14, 2017.


2016


78. S. Bagwell, P.D. Ledger and A.J. Gil, “Accurate simulation of acousto-magneto-mechanical systems using hp finite elements with application to MRI coil design”. In proceedings of the 7th European Congress on Computational Methods in Applied Sciences and Engineering, Crete, Greece, June 5-10, 2016.


76. S. Bagwell, P.D. Ledger and A.J. Gil, “Accurate simulation of acousto-magneto-mechanical systems using hp finite elements with application to MRI coil design”. In proceedings of the 24th UK Association of Computational Mechanics in Engineering (ACME) Conference, Cardiff, United Kingdom, 31 March - 1 April, 2016.


2015


65. S. Bagwell, P. D. Ledger and **A.J. Gil**, “A Newton-Raphson scheme for coupled magneto-mechanical problems applied to MRI scanners”. In proceedings of the 23rd UK Association of Computational Mechanics in Engineering (ACME) Conference, Swansea, United Kingdom, April 8-10, 2015.


2014


55. R. Sevilla, M. Weberstadt and A.J. Gil, “Towards the high-fidelity simulation of aerolastic wind gust effect in aerodynamic shapes”. In proceedings of the International Conference on Spectral and High Order Methods, Salt Lake City (USA), 2014.


2013


2012


2011


2010


2009


2008


2007


2005


2004


4. A.J. Gil and J. Bonet, “Structural analysis of cable and strut supported prestressed membranes”, In Proceedings of the UK Association of Computational Mechanics in Engineering (ACME) conference, Cardiff, 5-6 April 2004. This paper was awarded the prize of Best Post-graduate Research Paper of the Conference.

2003

