

Antonio Rodríguez-Ferran

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Current position

Associate professor of Applied Mathematics, Universitat Politècnica de Catalunya

Education

Civil Engineering, Escola Tècnica Superior d'Enginyers de Camins, Canals i Ports de Barcelona (1990)
Ph.D. Universitat Politècnica de Catalunya (1996)

Research interests

Computational methods in applied sciences and engineering
Nonlinear finite elements; computational failure mechanics
Numerical modelling of thin-walled structures

Career

Associate professor of Applied Mathematics, UPC, since 1998
Assistant professor, UPC, 1993-1998
Lecturer, UPC, 1991-1993
Research assistant, Centre d'Etudes Nucléaires de Saclay (France), 1992

Professional activities

Referee:

- Advances in Engineering Software
- Applied Numerical Mathematics
- Computer Methods in Applied Mechanics and Engineering
- Computers and Geotechnics
- International Journal for Numerical and Analytical Methods in Geomechanics
- International Journal for Numerical Methods in Engineering
- International Journal of Non-Linear Mechanics
- International Journal of Solids and Structures

Community services

Secretary of the Sociedad Española de Métodos Numéricos en Ingeniería (SEMNI), since 2003

University services

Member of the Doctoral Committee of the Universitat Politècnica de Catalunya, since 2002
Member of the Committee of the Doctoral Program in Applied Mathematics, since 2000

Summary of journal publications

Journal	Impact factor	Number of papers
International Journal for Numerical Methods in Engineering	1,691	8
Computer Methods in Applied Mechanics and Engineering	1,252	3
International Journal of Solids and Structures	1,327	1
Other indexed journals		8
Other papers in refereed journals		5

Selected publications (max. 5)

Rodríguez-Ferran A; Casadei F; Huerta A. "ALE stress update for transient and quasistatic processes" *International Journal for Numerical Methods in Engineering* 43, 1998 (13 times cited)

Rodríguez-Ferran A; Huerta A. "Error estimation and adaptivity for nonlocal damage models", *International Journal of Solids and Structures* 37, 2000 (10 times cited)

Rodríguez-Ferran A; Pegon P; Huerta A. "Two stress update algorithms for large strains: Accuracy analysis and numerical implementation", *International Journal for Numerical Methods in Engineering* 40, 1997 (10 times cited)

Rodríguez-Ferran A; Pérez-Foguet A; Huerta A. "Arbitrary Lagrangian-Eulerian (ALE) formulation for hyperelastoplasticity", *International Journal for Numerical Methods in Engineering* 53, 2002 (6 times cited)

Askes H; Rodríguez-Ferran A; Huerta A. "Adaptive analysis of yield line patterns in plates with the arbitrary Lagrangian-Eulerian method", *Computers & Structures* 70 1999 (6 times cited)

Other relevant information

Conference committees:

Scientific committee

4th European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS), 2002
7th and 8th International Conference on Computational Plasticity (COMPLAS), 2003 and 2005

Organizing committee

Congreso de Métodos Numéricos en Ingeniería 2005
International Conference on Adaptive Modeling and Simulation (ADMOS), 2005

Editorial works

Huerta, A.; Rodríguez-Ferran, A. Special issue on "Arbitrary Lagrangian-Eulerian Formulation", *Computer Methods in Applied Mechanics and Engineering* (ISSN 0045-7825), Vol. 193, Issues 39 – 41, 2004