

Josep Sarrate

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Current position

Associate professor of Applied Mathematics, Universitat Politècnica de Catalunya

Education

Physics, Facultat de física de Barcelona. Universitat de Barcelona (1985)
Ph. D. in Sciences. Escola Tècnica Superior d'Enginyers de Camins, Canals i Ports de Barcelona Universitat Politècnica de Catalunya (1996)

Research Interests

Computational methods in applied sciences and engineering.
Mesh generation and adaption

Career

Associate Professor Universitat Politècnica de Catalunya, (2000-2005)
Assistant professor Universitat Politècnica de Catalunya, (1989-2000)
System Manager of the Computer Center of the Escola Tècnica Superior d'Enginyers de Camins, Canals i Ports de Barcelona (1985-1989)

Honors and awards

Professional activities

- ViceDean of the Escola Tècnica Superior d'Enginyers de Camins Canals i Ports de Barcelona (2001-2005).
- Director of the Computer Center of the Escola Tècnica Superior d'Enginyers de Camins Canals i Ports de Barcelona (2001-2005).

Summary of journal publications

Journal	Impact factor	Number of papers
International Journal for Numerical Methods in Engineering	1,691	3
Computer Methods in Applied Mechanics and Engineering	1,252	1
International Journal for Numerical Methods in Fluids	0,545	1
Communications in Numerical Methods in Engineering	0,450	2
Other papers in refereed journals		.5

Selected publications (max. 5)

Sarrate J. and Huerta A., "Efficient unstructured quadrilateral mesh generation" International Journal for Numerical Methods in Engineering, Vol. 49, Issue 10, pp. 1327-1350, 2000 (7 times cited).

Sarrate J., Huerta A., and Donea J. "Arbitrary Lagrangian-Eulerian formulation for fluid-rigid body interaction", Computer methods in Applied Mechanics and Engineering, Vol 190, Issue 24,25, 2001
International Journal for Numerical Methods in Fluids, Vol 31, Issue 1 17-36, 1999 (2 times cited).

Sarrate, J. and Huerta, A. "Particle injection in LSI+61°303 radio outburst", *Astronomy and Astrophysics*, Vol 248, Issue 2 124-128, 1991 (22 times cited).

Huerta, A., Rodríguez-Ferran, A., Díez, P. and Sarrate, J. "Adaptive finite element strategies based on error assessment" *International Journal for Numerical Methods in Engineering*, Vol. 46, Issue 10, pp. 1803-1818, 1999 (15 times cited).

Sarrate, J., Canas, J.A., Pujades, L., Badal, J., Corchete, V. and Payo, G, "Shallow structure of part of northwestern Iberia from short period Rayleigh wave observations", *Tectonophysics*, Vol. 221, Issue 1 95-105, 1993 (8 times cited).

Other relevant information

Workshop and Conference Committees

Scientific Committee

- 3th and 5th ECCOMAS Conference on Numerical Methods in Engineering, 2002 and 2004
- Workshop on Numerical Methods in Applied Science and Engineering (2002-2005)

Organizing Committee

- 2nd. International Conference in Adaptive Modeling and Simulation (ADMOS), 2005