

Carlos Agelet de Saracibar Bosch

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Current position

Full Professor of Continuum Mechanics and Theory of Structures, Universidad Politécnica de Cataluña

Education

Civil Engineer, ETS Ingenieros de Caminos, Canales y Puertos, UPC (1985)
PhD in Civil Engineer, ETS Ingenieros de Caminos, Canales y Puertos, UPC (1990)

Research interests

Nonlinear Computational Mechanics, Finite Element Methods, Computational Methods in Applied Science and Engineering

Career

Full Professor of Continuum and Structural Mechanics, Universidad Politécnica de Cataluña, since 2003
Vice-Dean of Research and Doctorate, ETS Ingenieros de Caminos, Canales y Puertos de Barcelona, Universidad Politécnica de Cataluña (1997-2005)
Visiting Scholar, Division of Applied Mechanics, Department of Mechanical Engineering, Stanford University, Stanford, CA, USA (1993-1994)
Associate Professor, Universidad Politécnica de Cataluña (1991-2003)
Assistant Professor, Universidad Politécnica de Cataluña (1988-1991)
Lecturer, Universidad Politécnica de Cataluña (1987-1988)
Research Assistant, Universidad Politécnica de Cataluña (1986-1987)

Honors and awards

CIRIT Young Researcher Grant 1988, 1989
Amics de Gaspar de Portolá Grant 1991
Member of the high-quality and stable research group on Computational Mechanics, Generalitat de Catalunya, Since 1997

Professional activities

Editorial Boards

Revista Internacional de Métodos Numéricos en Ingeniería, CIMNE, 2010
International Journal of Material Forming, Springer, 2008
Computer Methods in Materials Science, 2006
Intersections, E-journal on Civil Engineering, 2004
Editor, Monograph Series on Computational Modeling of Forming Processes, CIMNE, 2003

Community Services

Member of the Board of Directors, ESAFORM (2000-2012)
Member of the Scientific Committee, ESAFORM (1997-2000)

University Services

Member of the Doctoral Committee, Universidad Politécnica de Cataluña (1998-2002)
President of the Research and Doctorate Committee, ETS Ingenieros de Caminos, Canales y Puertos de Barcelona, Universidad Politécnica de Cataluña (1997-2005)
Member of the Research and Doctorate Committee, ETS Ingenieros de Caminos, Canales y Puertos de Barcelona, Universidad Politécnica de Cataluña (1994-1997)

Summary of journal publications

Journal	Impact factor	Number of papers
International Journal of Plasticity	5,082	3
Computer Methods in Applied Mechanics and Engineering	2,082	7
International Journal for Numerical Methods in Engineering	1,928	4
Archives of Computational Methods in Engineering	2,760	1
Other indexed journals		7
Other papers in refereed journals		2

Selected publications (max. 5)

Agelet de Saracibar, C., A new frictional time integration algorithm for large-slip multi-body frictional contact problems, *Computer Methods in Applied Mechanics and Engineering* 142 (1997) 303-334, doi:10.1016/S0045-7825(96)01133-4 (18 times cited)

Agelet de Saracibar, Chiumenti, M., On the numerical modelling of frictional wear phenomena, *Computer Methods in Applied Mechanics and Engineering* 177 (1999) 401-426, doi:10.1016/S0045-7825(98)00390-9 (26 times cited)

Agelet de Saracibar, C., Numerical analysis of coupled thermomechanical contact problems. Computational model and applications, *Archives of Computational Methods in Mechanics* 5 (1998) 243-301, doi: 10.1007/BF02897875 (23 times cited)

Oñate, E., Agelet de Saracibar, C., Finite element analysis of sheet metal forming problems using a selective voided viscous shell membrane formulation, *International Journal for Numerical Methods in Engineering* 30 (1990) 1577-1593, doi: 10.1002/nme.1620300815 (19 times cited)

Chiumenti, M., Q. Valverde, Agelet de Saracibar, C., Cervera, M., A stabilized formulation for incompressible elasticity using linear displacement and pressure interpolations, *Computer Methods in Applied Mechanics and Engineering* 191 (2002) 5253-5264, doi:10.1016/S0045-7825(02)00443-7 (35 times cited)

Other relevant information

Organizing Committees

- Int. Symp. on Plasticity and its Current Applications: 1999, 2000, 2008, 2009, 2010, 2011, 2012

Scientific Committees

- Int. Symp. on Plasticity and its Current Applications (PLASTICITY): 1999, 2000, 2008, 2009, 2010, 2011, 2012
- Int. Conf. on Computational Plasticity (COMPLAS): 1995, 1997, 2000, 2003, 2005, 2007, 2009, 2011, 2013
- Int. Conf. on Coupled Problems in Science and Engineering (COUPLED): 2005, 2007, 2009, 2011, 2013
- ESAFORM Int. Conference: 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010
- Int. Conf. on Technology of Plasticity (ICTP): 2008, 2011, 2013
- Int. Conf. on Numerical Methods in Industrial Forming Processes (NUMIFORM): 2007
- ECCOMAS: 2000, 2004
- ELFIN: 1993, 1995

Organizing Minisymposia/Sessions

- World Congress on Computational Mechanics (WCCM): 1998, 2004
- Int. Symp. on Plasticity and its Current Applications (PLASTICITY): 1999, 2000, 2008, 2009, 2010, 2011, 2012
- Int. Conf. on Computational Plasticity (COMPLAS): 2000, 2003, 2005, 2007, 2009, 2011, 2013
- Int. Conf. on Coupled Problems in Science and Engineering (COUPLED): 2005, 2007, 2009, 2011, 2013
- ECCOMAS: 2000, 2004
- ECCM: 1999
- SEMNI : 2005

Editorial Works

C. Agelet de Saracibar, M. Cervera, Invited Editors, Special Issue on Computational Modeling of Forming Processes, *Int. J. Plasticity* 17 (2001)