

Javier (Xavier) Oliver

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Current position

-- Full professor (catedrático) of Continuum Mechanics and Structural Analysis, Technical University of Catalonia (UPC)

Education

-- Civil Engineer, Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos de Valencia (1976)

-- Ph. D. in Civil Engineering, Universitat Politècnica de Catalunya (1982)

Research Interests

-- Computational mechanics

-- Computational material failure mechanics.

-- Numerical modeling of industrial forming processes

Career

-- (1989-present): Full professor of Continuum Mechanics and Structural Analysis, Technical University of Catalonia (UPC).

-- (2000-2001) Visiting scholar. Civil, Architectural and Environmental Engineering Dept., University of Colorado at Boulder, Boulder, Co., (USA)

-- (1989) Visiting scholar. Mechanical Engineering Dept., University of Stanford, Stanford, Ca., (USA).

-- (1982-1989): Associate Professor, Technical University of Catalonia (UPC).

-- (1979-1982): Assistant Professor, Technical University of Catalonia (UPC),

Honors and awards

-- Fellow of the International Association of Computational Mechanics (IACM), 2002

-- Director of the high-quality and stable research group on "Computational Mechanics", Generalitat de Catalunya, 1997-1999, 1999 – 2001 and 2002 – 2004.

-- Member of the Catalanian Royal Academy of Doctors, 2006

-- Computational Mechanics Award of the International Association of Computational Mechanics (IACM), 2008

-- International Award of the Argentinean Association for Computational Mechanics (AMCA), 2008

Professional activities

Editorial boards

-- Revista Internacional de Métodos Numéricos en Ingeniería, Technical University of Catalonia (UPC), 1985 (Associate Editor)

-- Archives of Computational Methods in Engineering, Springer-Verlag, 1995

-- International Journal for Numerical Methods in Engineering, John Wiley & Sons, 1998

-- Computers and Concrete, Techno Press, 2004

-- Computer Methods in Applied Mechanics in Engineering, Elsevier, 2011

Community services

-- Member of the Executive Board, Spanish association for numerical methods in engineering (SEMNI), since 1997

-- Member of the Advisory Council, Centro Internacional de Métodos Numéricos en Ingeniería (CIMNE) since 1998

-- Member of the Executive Council, Centro Internacional de Métodos Numéricos en Ingeniería (CIMNE) (1995-1998)

-- Member of the General Council, International Association for Computational Mechanics (IACM) (1998)

-- Vice chairman, Spanish association for numerical methods in engineering (SEMNI), (2002-2009)

-- Chairman, Spanish association for numerical methods in engineering (SEMNI), since 2009

University services

-- Vice-dean. Civil Engineering School of Barcelona (ETSECCPB), (1994-1996)

Summary of scientific works (total 252)

Type	Number
Books and monographs	19
Book chapters	6
Papers in JCR indexed Journals	59
Papers in other journals	7
Papers in scientific Conferences	144
Doctoral Thesis (written)	1
Doctoral Theses (advised)	16

Selected publications (5) (number of cites according to Scopus at 1-1-2010)

- Simo, J.C., **Oliver, J.**, Armero, F. An analysis of strong discontinuities induced by strain-softening in rate-independent inelastic solids(1993), *Computational Mechanics*, 12 (5), pp. 277-296. Cited 235 times.
- Lubliner, J., **Oliver, J.**, Oller, S., Oñate, E., A plastic-damage model for concrete (1989), *International Journal of Solids and Structures*, 25 (3), pp. 299-326. Cited 190 times
- **Oliver, J.**, Modelling strong discontinuities in solid mechanics via strain softening constitutive equations. Part 1: Fundamentals, (1996), *International Journal for Numerical Methods in Engineering*, 39 (21), pp. 3575-3600. Cited 125 times
- **Oliver, J.**, Modelling strong discontinuities in solid mechanics via strain softening constitutive equations. Part 2: Numerical simulation (1996), *International Journal for Numerical Methods in Engineering*, 39 (21), pp. 3601-3623. Cited 74 times.
- **Oliver, J.**, Huespe, A.E., Pulido, M.D.G., Chaves, E., From continuum mechanics to fracture mechanics: The strong discontinuity approach,(2001), *Engineering Fracture Mechanics*, 69 (2), pp. 113-136. Cited 57 times.

h-index :21, Nr. of cites 1424 Average nr. of citations/refereed paper: 29.66

Plenary lectures in scientific Conferences:

- Int. Conf. on Computational Plasticity fundamentals and applications, 1991, 1995, 1997, 2003, 2005, 2007 and 2009 (Barcelona, Spain)
- MECOM/ENIEF Asociación Argentina de Mecánica Computacional (AMCA), 1994,2008, 2010 (Argentina)
- South-American Congress on Computational Mechanics, 2002, 2005, 2010 (Argentina)
- Congresso de Metodos Computacionais en Engenharia 2004 (Lisboa, Portugal)
- Vth World Congress on Computational Mechanics, 2004 (Beijing, China)
- IV ECCOMAS Conference on Numerical Methods in Engineering, 2004 (Jyväskylä, Finland)
- Euroc-2010, Computational Modeling of Concrete Structures, 2010, (Austria)
- GIMC-2010, XVIII Convegno Italiano di Meccanica Computazionale, 2010, (Siracusa, Italy)
- IV European Conference on Computational Mechanics, 2010 (Paris, France) (semi-plenary)

Organization of Conferences and scientific events

Conference Chairman:

- 1st and 2nd International Conference on Computational Fracture and Failure of Materials and Structures (CFRAC 2007 Nantes (France), CFRAC 2011, Barcelona (Spain))

Member of the organizing committee:

- 4^o, 5^o, 6^o, 7^o, 8^o, 9^o, 10^o, Congreso de Métodos Numéricos en Ingeniería: 2000, 2002, 2004, 2005, 2007,2009, 2011

Member of the scientific committee:

- 2nd, 3rd, 4th, 5th, 6th, 7th and 8th, 9th Int. Conf. on Computational Plasticity fundamentals and applications, 1989, 1991, 1995, 1997, 2000, 2003 ,2005 and 2007, 2009
- 5th, 6th, 7th, 8th and 9th Int. Conf. on Computational Modeling of Concrete Structures, 1997, 2000, 2003 2006, 2010
- IV th and Vth World Congress on Computational Mechanics, 1998,2002
- IV ECCOMAS Conference on Numerical Methods in Engineering, 2004

Member of the program committee:

- 2^{on}, 3rd, 4th, 5th and 6th Congreso de Métodos Numéricos en Ingeniería, 1993, 1996, 1999, 2002, 2004,2005, 2007 and 2009 (Spain-Portugal)
- II Congreso Internacional de Métodos Numéricos en Ingeniería, 2002 (Guanajuato, México)

Editorial Works:

- Steinmann P, Armero F, Willam K, **Oliver J.** Special Issue on "Computational failure Mechanics", *Computer Methods in Applied Mechanics and Engineering* (ISSN 0045-7825), Vol 193, Issues 30 – 32, 2004
- **Oliver J.**, Hofstetter G, Jirasek M, Special Issue with selected papers of the International Conference on Computational Fracture and Failure of Materials and Structures (CFRAC2007) of *Computer and Concrete: An international Journal*, Vol. 5, No. 4, 2008