

# Djordje Peric

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## ***Current position***

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Professor

## ***Education***

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DSc (Wales), PhD (Wales), Dipl.-Ing. (Zagreb)

## ***Research interests***

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Computational methods in solid, structural and fluid mechanics; Computational modelling of material behaviour; Multiscale and adaptive solution strategies for non-linear problems; Fluid-structure interaction; Free surface and interface flows

## ***Career***

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2000-...	Personal Chair, Department of Civil Engineering, University of Wales, Swansea
1996-2000	Reader, Department of Civil Engineering, University of Wales, Swansea
1993-1996	Lecturer, Department of Civil Engineering, University of Wales, Swansea
1991-1993	Senior Research Assistant, Dept. of Civil Engineering, University of Wales, Swansea
1988-1991	Ph.D. Student, Department of Civil Engineering, University of Wales, Swansea
1985-1988	Assistant Lecturer, Faculty of Civil Engineering, University of Zagreb, Croatia

## ***Honors and awards***

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2004	Fellow	International Association of Computational Mechanics (IACM)
2003	Member	Who's Who in Science and Engineering
1993	Rockfield Lecturer	Rockfield Software Ltd.
1988	PhD Scholarship	Rockfield Software Ltd.
1978	Rector's Award	University of Zagreb

## ***Professional activities***

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Consultant	Rockfield Software Ltd
Consultant	Ford Motor Company, USA
Editorial Board Member	Computer Methods in Applied Mechanics and Engineering
Editorial Board Member	Computational Mechanics
Editorial Board Member	International Journal for Numerical Methods in Engineering
Editorial Board Member	Communications in Numerical Methods in Engineering
Editorial Board Member	Engineering Computations
Member	EPSRC Peer Review College

## ***Refereed papers and chapters in books***

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57+12= 69

## ***Summary of journal publications***

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Journal	Impact factor	Number of papers
International Journal for Numerical Methods in Engineering	1.691	12
Computer Methods in Applied Mechanics and Engineering	1.252	15
Reports on Progress in Physics	8.409	1
Other indexed journals		29
Other papers in refereed journals		

### ***Selected publications (max. 5)***

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D. PERIC, D. R. J. OWEN and M. E. HONNOR, 'A model for finite strain elasto-plasticity based on logarithmic strains: computational issues', *Comp. Meth. Appl. Mech. Engng.*, 94, 35-61 (1992)

D. PERIC, J. YU and D. R. J. OWEN, 'On error estimates and adaptivity in elasto-plastic solids: applications to the numerical simulation of strain localisation in classical and Cosserat continua', *Int. J. Num. Meth. Engng.*, 37, 1351-1379 (1994)

D. PERIC, C. HOCHARD, M. DUTKO and D. R. J. OWEN, 'Transfer operators for evolving meshes in small strain elasto-plasticity', *Comp. Meth. Appl. Mech. Engng.*, 137, 331-344 (1996)

W. DETTMER and D. PERIC, 'An analysis of the time integration algorithms for the finite element solutions of incompressible Navier-Stokes equations based on a stabilised formulation', *Comput. Meth. Appl. Mech. Engng.*, 192, 1177-1226 (2003)

D. PERIC and A. J. L. CROOK, 'Computational strategies for predictive geology with reference to salt tectonics', *Comp. Meth. Appl. Mech. Engng.*, 193, 5195-5222 (2004)

### ***Other relevant information***

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