Joško Ožbolt

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Current position

Associate Professor, Institute of Construction Materials, University of Stuttgart
Professor, Faculty of Civil Engineering Rijeka, Croatia

Education

Civil Engineering, Faculty of Civil Engineering Zagreb, Croatia (1978)
Ph. D., Faculty of Civil Engineering Zagreb, Croatia (1982)
Post Doctoral Degree (Habilitation), University of Stuttgart, Germany (1995)

Research interests

Material modelling, Fracture mechanics.
Coupled problems (hydro-thermo-mechanical coupling).
Computational methods in applied sciences and engineering.
Finite elements, nonlinear computational mechanics.
Nonlinear analysis of structures.

Career

Visiting Professor, University of Rijeka, Croatia, (2003)
Visiting Professor, University of Zagreb, Croatia, (1999)
Associate Professor, University of Stuttgart, (1995)
Research Fellow, University of Stuttgart, 1989-95
Fellowship, Northwestern University, USA, 1986-87-89-90
Associate Professor, University of Zagreb, Croatia, 1982-89
Fellowship, TNO Institute, The Netherlands, 1980-81
Research Assistant, University of Zagreb, Croatia, 1978-82

Honors and awards

Award of the Croatian Society of Mechanics (1982)

Professional activities

Editorial boards
International Journal - Computers & Concrete, Techno press, since 2004
International Journal for Engineering Modelling, University of Split, Croatia, since 1987

Community services

fib, Commision 4, Modelling of structural behaviour and design, TG 4.1, TG 4.3 and TG 4.4

Summary of journal publications

Journal	Impact factor	Number of papers
International Journal of Fracture	0,797	2
International Journal for Numerical Methods in Engineering	1,691	2
Journal of Engineering Mechanics, ASCE	0,719	6
Other indexed journals		15
Other papers in refereed journals		20

Selected publications (max. 5)

Ožbolt, J. and Bažant, Z. P. (1992). "Microplane Model for Cyclic Triaxial Behavior of Concrete," *Journal of Eng. Mech., ASCE*, 118, (7), 1365--1386.

Ožbolt, J. and Bažant, Z.P. (1996). "Numerical Smeared Fracture Analysis: Nonlocal Microcrack Interaction Approach," *International Journal for Numerical Methods in Engineering*, 39(4), 635-661.

Ožbolt, J., Li, Y.-J and Kožar, I. (2001). „Microplane model for concrete with relaxed kinematic constraint." *International Journal of Solids and Structures*, 38, 2683-2711.

Ožbolt, J. and Reinhardt, H.W. (2002). „Numerical study of mixed mode fracture in concrete." *International Journal of Fracture*, 118, 145-161.

Bossert, J., Ožbolt, J. and Grassegger, G. (2004). „Finite-Element Modeling of the Conservation Effects of an Artificial Resin on Deteriorated Heterogeneous Sandstone in Building Restoration." *Environmental Geology*, Vol. 46, Isuse 3, 306-313.

Other relevant information

Software development

Author of the world wide used 3D Finite element code MASA for the non-linear analysis of concrete and reinforced concrete structures.