Hans-Joachim Bungartz

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Current position

Full professor for Scientific Computing in Computer Science, Technische Universität München

Education

Graduation (Diploma), Mathematics, Technische Universität München (1988)
Graduation (Diploma), Computer Science, Technische Universität München (1989)
PhD, Technische Universität München (1992)
Habilitation, Technische Universität München (1998)

Research interests

efficient discretizations for PDE, especially sparse grids
efficient numerical algorithms
parallel computing
HPC applications, especially from fluid mechanics and molecular dynamics
geometric modelling and interfaces to simulation
interfaces between simulation and visualization, computational steering

Career

Full Professor, Dept. of Computer Science, Technische Universität München, since 2005
Full Professor, Dept. of Computer Science, Universität Stuttgart, 2001-2004
Associate Professor, Dept. of Mathematics, Universität Augsburg, 2000-2001
Assistant Professor, Dept. of Computer Science, Technische Universität München, 1998-2000
Research Assistant, Technische Universität München, 1991-1998
PhD scholarship, Siemens AG, München, 1989-1991

Honors and awards

Bayerischer Habilitations-Förderpreis, 1994

Professional activities

Speaker DFG research group 493 “Fluid structure interaction” (since 2003)

Member of DFG Commission for Computer Systems (since 2005)
Member of Scientific Directorate of IBFI Schloss Dagstuhl (since 2003)
Program Director of the Intern. Master’s Program *CSE* at TUM (since 2005)

Refereed papers and chapters in books

About 50

Summary of journal publications

Journal	**Impact factor**	**Number of papers**
Computing	0,614	1
Journal of Complexity	0,892	1
Acta Numerica		1
Other indexed journals		9
Other papers in refereed journals		1

Selected publications (max. 5)

Bungartz, H.-J., Griebel, M.: Sparse Grids, Acta Numerica, 13, 2004.

Bungartz, H.-J., Dirnstorfer, S.: Multivariate quadrature on adaptive sparse grids, Computing, 71(1), 2003.

Bungartz, H.-J., Griebel, M., Zenger, C.: Einführung in die Computergraphik, Vieweg, 2002.

Bungartz, H.-J., Hoppe, R., Zenger, C. (eds.): Lectures on Applied Mathematics, Springer, 2000.

Bungartz, H.-J., Griebel, M.: A note on the complexity of solving Poisson's equation for spaces of bounded mixed derivatives, J. Complexity, 15(2), 1999.