

November 17, 2011

CURRICULUM VITAE FOR PER CHRISTIAN HANSEN

Professor Per Christian Hansen has worked with numerical regularization algorithms for 25 years, and he has published 3 books and 80+ papers in leading journals. He has developed a number of software packages, of which REGULARIZATION TOOLS has been downloaded more than 4000 times from MATLAB's File Exchange Central. His current research projects involve imaging algorithms, geomagnetic prospecting, tomography in material science, and GPU computing. His H-INDEX is 31.

Title: Professor in Scientific Computing.

Born: July 9, 1957 in Nyborg, Denmark. Citizenship: Danish.

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Degrees

- 1982: M.Sc. in Electrical Engineering.
- 1985: Ph.D. in Numerical Analysis.
- 1996: Dr.Techn. in Numerical Analysis.

Employments

- 1985–1988: Research Associate at the Astronomical Observatory, University of Copenhagen.
- 1988–1996: Associate Professor at UNI•C.
- Since 1996: Professor at Informatics and Mathematical Modelling, DTU.

Longer Research Trips Abroad

- 1986: Department of Computer Science, Stanford University.
- 1988: Department of Mathematics, Oak Ridge National Laboratory.
- 1989: Dept. of Mathematics, UCLA.
- 1990: Mathematics and Computer Science Division, Argonne National Laboratory.
- 1992: University of California, Berkeley.
- 2004: Department of Mathematics and Computer Science, Emory University, Atlanta.

Awards

- 1990: BIT Prize for distinguished paper on numerical analysis in the journal BIT.
- 1994: Statoil Prize in recognition of the work in numerical analysis.
- 2005: ISI Web of Knowledge award as most cited Danish mathematician.

Professional Memberships

- SIAM, Society for Industrial and Applied Mathematics (USA).
- Danish Academy of Technical Sciences.
- Danish Academy of Natural Sciences.

Publications

- 3 books and 1 edited book.
- 83 papers in refereed journals.
- 49 conference papers etc.

Some Important Recent Publications

- P. C. Hansen, V. Pereyra, and G. Scherer, *Least Squares Data Fitting with Applications*; to be published by Johns Hopkins University Press in 2012 (approx. 260 pages).
- P. C. Hansen, *Discrete Inverse Problems: Insight and Algorithms*, SIAM, Philadelphia, 2010 (213 pages).
- T. L. Jensen, J. H. Jørgensen, P. C. Hansen, and S. H. Jensen, *Implementation of an optimal first-order method for strongly convex total variation regularization*, BIT (2011), DOI: 10.1007/s10543-011-0359-8.
- P. C. Hansen and M. Saxild-Hansen, *AIR Tools – A MATLAB package of algebraic iterative reconstruction methods*, J. Comp. Appl. Math. (2011), DOI: 10.1016/j.cam.2011.09.039.
- T. Elfving, T. Nikazad, and P. C. Hansen, *Semi-convergence and relaxation parameters for a class of SIRT algorithms*, Electronic Trans. on Numer. Anal., 37 (2010), pp. 321–336.