

## CURRICULUM VITAE FOR PER CHRISTIAN HANSEN

**Professor Per Christian Hansen** has worked with numerical regularization algorithms for 30 years, and he has published 4 books and 100 papers in leading journals. He has developed a number of software packages, of which REGULARIZATION TOOLS is a popular toolbox for analysis and solution of discrete inverse problems. His current research projects involve algorithms for tomographic reconstruction and iterative image deblurring algorithms. His H-INDEX is 45 and he is a SIAM fellow.

**Title:** Professor in Scientific Computing.

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

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**Work:** DTU Compute, Technical University of Denmark, DK-2800 Lyngby. Phone: +45 45.25.30.97.  
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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 DTU Compute.

### 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.
- 2015: SIAM Fellow in recognition of contributions to algorithms for rank-deficient and discrete ill-posed problems and regularization techniques.

### Professional Memberships

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

### Publications

- 4 books and 1 edited book.
- 100 papers in refereed journals.
- 53 conference papers etc.

### Some Important Recent Publications

- P. C. Hansen, V. Pereyra, and G. Scherer, *Least Squares Data Fitting with Applications*, Johns Hopkins University Press, 2012 (305 pages).
- P. C. Hansen, *Discrete Inverse Problems: Insight and Algorithms*, SIAM, 2010 (213 pages).
- H. H. B. Sørensen and P. C. Hansen, *Multi-core performance of block algebraic iterative reconstruction methods*, SIAM J. Sci. Comp., 36 (2014), C524-C546, DOI: 10.1137/130920642.
- T. Elfving, P. C. Hansen, and T. Nikazad, *Semi-convergence properties of Kaczmarz method*, Inverse Problems, 30 (2014), DOI: 10.1137/130920642.
- P. C. Hansen and M. Saxild-Hansen, *AIR Tools: A Matlab package of algebraic iterative reconstruction methods*, J. Comp. Appl. Math., 236 (2012), pp. 2167–2178, DOI: 10.1016/j.cam.2011.09.039.