Stanford

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Bio

BIO

I am a professor of Biomedical Signal Processing at the Department of Health Technology (DTU Health), Technical University of Denmark (www.dtu.dk). My main interests are the application of digital signal processing to medical ultrasound, especially synthetic aperture imaging, vector flow imaging, super-resolution, GPU-based beamforming and implementation, and ultrasound simulation.

I received the M.Sc. in electrical engineering in 1985, the Ph.D. in 1989 for work on deconvolution, and the Dr. Techn. degree in 1996 for my work on blood velocity estimation in the book: "Estimation of Blood Velocities Using Ultrasound, A Signal Processing Approach", which was published by Cambridge University Press in 1996. I have been a full professor at DTU since 1993, and I have been a visiting scientist at Duke University, North Carolina, Stanford University, California, and the University of Illinois at Urbana-Champaign, all in the US. I became an IEEE Fellow in 2012.

I have founded and headed the Center for Fast Ultrasound Imaging (www.cfu.dtu.dk) since 1998. Currently, I am a visiting Professor in the Department of Radiology at Stanford University, CA, USA, courtesy of Professors Katherine Ferrara and Jeremy Dahl, until August 2026. I will be working here on our super-resolution method, SURE, using the Stanford large-element arrays for the acquisition of clinical data. I am also writing a book on advanced ultrasound imaging, drawing on my 40 years in the field.

Link to home page: https://home.healthtech.dtu.dk/jaj/, which has a publication list.