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Research profile

Jan Østergaard received the M.Sc.E.E. degree from Aalborg University, Aalborg, Denmark, in 1999 and the PhD.E.E. degree (with cum laude) from Delft University of Technology, Delft, The Netherlands, in 2007. From 1999 to 2002, he worked as an R&D Engineer at ETI A/S, Aalborg, and from 2002 to 2003, he was an R&D Engineer with ETI Inc., VA, USA. Between September 2007 and June 2008, he was a Postdoctoral Researcher at The University of Newcastle, NSW, Australia. He has been a Visiting Researcher at Tel Aviv University, Israel, and at Universidad Técnica Federico Santa María, Valparaíso, Chile.

Dr. Østergaard is a Full Professor in Information Theory and Signal Processing and Head of the Section on AI and Sound in the Department of Electronic Systems. He is also Head of the Centre on Acoustic Signal Processing Research (CASPR), which is partially funded by William Demant Fonden.

He has received a Danish Independent Research Council's Young Researcher's Award, a Best PhD Thesis award by the European Association for Signal Processing (EURASIP), and fellowships from the Danish Independent Research Council, the Villum Foundations Young Investigator Programme, and William Demant Fonden

His research interests are in the areas of AI and sound, acoustic signal processing, information theory, causality in feedback systems, EEG signal processing, joint source-channel coding, statistical signal processing.

He is an Associate Editor for the IEEE TRANSACTIONS ON INFORMATION THEORY. He is a board member of the Danish Sound Cluster, and AAU's main representative in Sound Hub Denmark. He is also a member of Innovation Fund Denmark's specialist committee for the industrial researcher programme.

Employment

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Machine Learning

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AI for the People

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Classique-Center for Classical Communication in the Quantum Era

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1 Feb 2025 → present

Research outputs

xLSTM-SENet: xLSTM for Single-Channel Speech Enhancement

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Effects of Reduced Information in the Performance of Low-Frequency Sound Zones

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Validity and reliability of self-reported and neural measures of listening effort

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Head Orientation Estimation with Distributed Microphones Using Speech Radiation Patterns

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Interpretable Nonnegative Incoherent Deep Dictionary Learning for FMRI Data Analysis

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