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Bæk, D., Jensen, J. A. & Willatzen, M. 2010
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Matteoli, S., Corvi, A. & Wilhjelm, J. E. 2010
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Modeling transducer impulse responses for predicting calibrated pressure pulses with the ultrasound simulation program Field II
Bæk, D., Jensen, J. A. & Willatzen, M. 2010
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MR.-skanning ved 7 tesla feltstyrke etableres i Danmark: Nordens første humane 7T skanner giver væsentligt løft til dansk MR-forskning og -diagnostik
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Ordered Incremental Multiojective Problem Solving Based on Genetic Algorithms
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Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

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Publication: Research - peer-review › Journal article – Annual report year: 2010

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Simulating Capacitive Micromachined Ultrasonic Transducers (CMUTs) using Field II

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Synthetic aperture flow imaging using a dual beamformer approach
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Synthetic Aperture Flow Imaging Using a Dual Stage Beamformer Approach

Testing of a spatial impulse response algorithm for double curved transducers

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Transverse Oscillations for Phased Array Vector Velocity Imaging

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Publication: Research › Poster – Annual report year: 2009

Angular Spectrum Simulation of Pulsed Ultrasound Fields
Publication: Research › Article in proceedings – Annual report year: 2009

APES Beamforming Applied to Medical Ultrasound Imaging
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A probabilistic model of RNA conformational space
Publication: Research - peer-review › Journal article – Annual report year: 2009

Bestemmelse af Quorum Sensing: Evnen til bakteriel kommunikation og synkroniseret adfærd
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High Resolution Ultrasound Imaging Using Adaptive Beamforming with Reduced Number of Active Elements
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Publication: Research - peer-review › Journal article – Annual report year: 2009

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

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Using COMSOL Multiphysics for Biomechanical Analysis of Stent Technology in Cerebral Aneurysms
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Synthetic Aperture Sequential Beamforming and other Beamforming Techniques in Ultrasound Imaging
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Medical ultrasound imaging

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Synthetic Aperture Ultrasound Imaging

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A comparative and combined study of EMIS and GPR detectors by the use of Independent Component Analysis

Identification of pulse echo impulse responses for multi source transmission
Apparatus and method for velocity estimation in synthetic aperture imaging
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A new architecture for a single-chip multi-channel beamformer based on a standard FPGA
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A new maximum likelihood blood velocity estimator incorporating spatial and temporal correlation
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Experimental investigation of transverse velocity estimation using cross-correlation
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Mine detection using SF-GPR: A signal processing approach for resolution enhancement and clutter reduction
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Jensen, J. A. 2000
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Jensen, J. A. & Nikolov, S. 2000
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Jensen, J. A. 2000
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Apparatus and method for determining movements and velocities of moving objects
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Publication: Research - peer-review › Journal article – Annual report year: 1997

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Publication: Research › Doctoral thesis – Annual report year: 1996

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Publication: Research - peer-review › Journal article – Annual report year: 1995

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Publication: Research - peer-review › Article in proceedings – Annual report year: 1995

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Publication: Research - peer-review › Article in proceedings – Annual report year: 1995

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Publication: Research - peer-review › Article in proceedings – Annual report year: 1995
Artifacts in blood velocity estimation using ultrasound and cross-correlation
Publication: Research - peer-review › Journal article – Annual report year: 1994

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Publication: Research - peer-review › Journal article – Annual report year: 1994

Nonparametric estimation of ultrasound pulses
Publication: Research - peer-review › Journal article – Annual report year: 1994

Two-dimensional random arrays for real time volumetric imaging
Publication: Research - peer-review › Journal article – Annual report year: 1994

Deconvolution of In Vivo Ultrasound B-Mode Images
Publication: Research - peer-review › Journal article – Annual report year: 1993

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Publication: Research - peer-review › Journal article – Annual report year: 1993

Stationary echo canceling in velocity estimation by time-domain cross-correlation
Publication: Research - peer-review › Journal article – Annual report year: 1993

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Publication: Research - peer-review › Journal article – Annual report year: 1992

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Publication: Research - peer-review › Journal article – Annual report year: 1992

A model for the propagation and scattering of ultrasound in tissue
Publication: Research - peer-review › Journal article – Annual report year: 1991

Estimation of pulses in ultrasound B-scan images
Publication: Research - peer-review › Journal article – Annual report year: 1991

Phase-processing as a tool for speckle reduction in pulse-echo images
Publication: Research - peer-review › Article in proceedings – Annual report year: 1991

Sampling system for in vivo ultrasound images
Publication: Research - peer-review › Article in proceedings – Annual report year: 1991
On output measurements via radiation pressure
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Medical Ultrasound Imaging: An Estimation Based Approach
Publication: Research › Ph.D. thesis – Annual report year: 1988

A new principle for a high-efficiency power audio amplifier for use with a digital preamplifier
Publication: Research - peer-review › Journal article – Annual report year: 1987

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A New Principle for a High Efficiency Power Audio Amplifier for Use with a Digital Preamplifier
Publication: Research - peer-review › Article in proceedings – Annual report year: 1986

A New principle for an all digital preamplifier and equalizer
Publication: Research - peer-review › Article in proceedings – Annual report year: 1986

Long-Term Cycling of the Magnesium Hydrogen System
Publication: Research - peer-review › Journal article – Annual report year: 1984

Projects:

Bindevævs biomekanik og modellering
Traberg, M. S., Eriksen, T. A. & Örn Jensson, B.
07/04/2014 → 16/06/2014
Project

Activities:

Evaluation of respiratory motion correction in PET/CT using a 3D printed phantom
Vilsbøll, J. H. (Speaker), Hasler S. W. Hasler (Guest lecturer), L. D. L. Duchstein (Guest lecturer), Wilhjelm, J. E. (Guest lecturer), M. N. Lonsdale (Guest lecturer)
22 Oct 2017
Activity: Talks and presentations › Conference presentations

Investigation of echogenic surface enhancements for improved needle visualization in ultrasonography: A PRISMA systematic review
Caroline Harder Hovgesen (Speaker), Wilhjelm, J. E. (Guest lecturer), Peter Vilmann (Guest lecturer), Evangelos Kalaitzakis (Guest lecturer)
11 Oct 2017
Activity: Talks and presentations › Conference presentations

Studenterinvolvering via ressourcemæssig effektiv peer review i et obligatorisk kursus i fysikken i medicinsk billedfærd
Wilhelm, J. E. (Speaker), Prag, S. W. (Guest lecturer)
30 May 2017
Activity: Talks and presentations › Conference presentations

Danish Cardiovascular Research Academy
Brasen, J. C. (Organizer)
26 May 2016 → 28 May 2016
Activity: Attending an event › Participating in or organising a conference

Secretary, ISMRM study group on Detection & Correction of Motion in MRI & MRS (External organisation)
Hanson, L. G. (Participant)
2015 → 2016
Activity: Membership › Membership of research networks or expert groups

Endothelial derived hyperpolarization in renal interlobar arteries
Brasen, J. C. (Speaker)
15 Sep 2015
Activity: Talks and presentations › Conference presentations

Meeting on Endothelium-Dependent Hyperpolarizations in Health and Disease
Brasen, J. C. (Participant)
14 Sep 2015 → 17 Sep 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

MRI simulation for sequence development, protocol optimisation, and education
Hanson, L. G. (Organizer)
29 Jun 2015 → 1 Jul 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Biosimulation
Brasen, J. C. (External examiner)
1 Jun 2015 → 30 Jun 2015
Activity: Examinations and supervision › External examination

Visualisation of basic NMR: Quantum and classical aspects
Hanson, L. G. (Lecturer)
25 Feb 2015
Activity: Talks and presentations › Conference presentations

MR principles, imaging and contrast
Hanson, L. G. (Lecturer)
3 Feb 2015
Activity: Talks and presentations › Conference presentations

The Scandinavian Physiological Society - The Special Interest Group (SIG) within Vascular Physiology
Brasen, J. C. (Participant)
28 Jan 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Secretary-Elect, ISMRM study group on Detection & Correction of Motion in MRI & MRS (External organisation)
Hanson, L. G. (Secretary)
2014 → 2015
Activity: Membership › Membership of research networks or expert groups

Mathematical Biosciences (Journal)
Brasen, J. C. (Reviewer)
23 Oct 2014 → …
Activity: Research › Peer review of manuscripts

Rhythms in complex networks
Brasen, J. C. (Participant)
1 Sep 2014 → 3 Sep 2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Proceedings of the National Academy of Sciences, Physical Sciences (NASA) (Journal)
Brasen, J. C. (Reviewer)
2 Jul 2014 → …
Activity: Research › Peer review of manuscripts

Mathematical models of (spatial and) temporal dynamics in biological and physiological systems
Brasen, J. C. (Invited speaker)
22 May 2014
Activity: Talks and presentations › Conference presentations

Kinellik
Brasen, J. C. (Guest lecturer)
18 Feb 2014
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

DSMMR Course on MRI Methodology
Hanson, L. G. (Organizer)
20 Jan 2014 → 21 Jan 2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

MRI simulation for sequence development, protocol optimisation and education
Hanson, L. G. (Organizer)
2 Dec 2013 → 4 Dec 2013
Activity: Attending an event › Participating in or organising a conference

BioDynamics 2013
Brasen, J. C. (Participant)
11 Sep 2013 → 13 Sep 2013
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

14th International Conference on Systems Biology
Brasen, J. C. (Organizer)
30 Aug 2013 → 3 Sep 2013
Activity: Attending an event › Participating in or organising a conference

14th International Conference on Systems Biology
Brasen, J. C. (Organizer)
30 Aug 2013 → 4 Sep 2013
Activity: Attending an event › Participating in or organising a conference

4th International Symposium on Dynamic Nuclear Polarization
Hanson, L. G. (Organizer)
28 Aug 2013 → 31 Aug 2013
Activity: Attending an event › Participating in or organising a conference

Acquisition Strategies for Hyperpolarised Spin Systems
Hanson, L. G. (Organizer)
25 Aug 2013 → 27 Aug 2013
Activity: Attending an event › Participating in or organising a conference

**Basic MRI Physics: A visual introduction for laymen**
Hanson, L. G. (Lecturer)
Activity: Talks and presentations › Conference presentations

**P L o S One (Journal)**
Brasen, J. C. (Reviewer)
22 Aug 2011 → …
Activity: Research › Peer review of manuscripts

**Journal of Medical Ultrasonics (External organisation)**
Wilhjelm, J. E. (Participant)
1 Jan 2010 → …
Activity: Membership › Membership of commitees, commissions, boards, councils, associations, organisations, or similar

**Ultragarsas (External organisation)**
Wilhjelm, J. E. (Participant)
1 Jan 2010 → …
Activity: Membership › Membership of commitees, commissions, boards, councils, associations, organisations, or similar

**International Congress of Ultrasonics (External organisation)**
Wilhjelm, J. E. (Participant)
1 Jan 2009 → …
Activity: Membership › Membership of commitees, commissions, boards, councils, associations, organisations, or similar

**Prizes:**

**New Investigator Award for Basic Science**
Tommaso di Ianni (Recipient), Mar 2017
Prize: Prizes, scholarships, distinctions