Publications:

Convolutional Neural Networks - Generalizability and Interpretations
Publication: Research › Ph.D. thesis – Annual report year: 2018

Canonical analysis of sentinel-1 radar and sentinel-2 optical data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Change detection in a series of Sentinel-1 SAR data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Change detection in multi-temporal dual polarization Sentinel-1 data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Corrections to "Change Detection in Full and Dual Polarization, Single- and Multi-Frequency SAR Data"
Publication: Research - peer-review › Comment/debate – Annual report year: 2017

Improving SAR Automatic Target Recognition Models with Transfer Learning from Simulated Data
Publication: Research - peer-review › Journal article – Annual report year: 2017

Maximum auto-mutual-information factor analysis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Site Monitoring with Synthetic Aperture Radar Satellite Imagery
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Spatial noise-aware temperature retrieval from infrared sounder data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Visualization of and Software for Omnibus Test Based Change Detected in a Time Series of Polarimetric SAR Data
Publication: Research - peer-review › Journal article – Annual report year: 2017

An omnibus likelihood test statistic and its factorization for change detection in time series of polarimetric SAR data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016
Change detection in a short time sequence of polarimetric C-band SAR data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Change detection in a time series of polarimetric SAR data by an omnibus test statistic and its factorization
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Determining the Points of Change in Time Series of Polarimetric SAR Data
Publication: Research - peer-review › Journal article – Annual report year: 2016

Identification of Dynamic Cover Types in Wetlands by using Multitemporal Cross-polarized Sentinel-1 Images
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Omnibus test for change detection in a time sequence of polarimetric SAR data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Short-Term Change Detection in Wetlands Using Sentinel-1 Time Series
Publication: Research - peer-review › Journal article – Annual report year: 2016

Stable reconstruction of Arctic sea level for the 1950-2010 period
Publication: Research - peer-review › Journal article – Annual report year: 2016

60-year Nordic and arctic sea level reconstruction based on a reprocessed two decade altimetric sea level record and tide gauges
Publication: Research - peer-review › Poster – Annual report year: 2015

Arctic Sea Level Change over the altimetry era and reconstructed over the last 60 years
Publication: Research - peer-review › Poster – Annual report year: 2015

Arctic Sea Level Reconstruction
Publication: Research › Ph.D. thesis – Annual report year: 2016

Building damage assessment after the earthquake in Haiti using two postevent satellite stereo imagery and DSMs
Publication: Research - peer-review › Journal article – Annual report year: 2015

Canonical analysis based on mutual information
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Canonical Information Analysis
Publication: Research - peer-review › Journal article – Annual report year: 2014

Change detection in a time series of polarimetric SAR images
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Change detection in bi-temporal data by canonical information analysis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Change Detection in Full and Dual Polarization, Single- and Multifrequency SAR Data
Publication: Research - peer-review › Journal article – Annual report year: 2015

Change detection in polarimetric SAR images using complex Wishart distributed matrices
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015
Change detection in quad and dual pol, single- and bi-frequency SAR data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Interpretation of images from intensity, texture and geometry
Publication: Research › Ph.D. thesis – Annual report year: 2015

Kernel versions of some orthogonal transformations
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Optimal Iterated Two-Class Separation in Hyperspectral Data
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Simulation of GNSS reflected signals and estimation of position accuracy in GNSS-challenged environment
Publication: Research - peer-review › Journal article – Annual report year: 2015

Statistical selection of tide gauges for Arctic sea-level reconstruction
Publication: Research - peer-review › Journal article – Annual report year: 2015

Arctic sea-level reconstruction analysis using recent satellite altimetry
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2014

A spatial-spectral approach for deriving high signal quality eigenvectors for remote sensing image transformations
Publication: Research - peer-review › Journal article – Annual report year: 2014

Change detection in a time series of polarimetric SAR data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Change detection in polarimetric SAR data over several time points
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Confidence and sensitivity of sea-level reconstructions
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2014

Improving Change Detection in Forest Areas Based on Stereo Panchromatic Imagery Using Kernel MNF
Publication: Research - peer-review › Journal article – Annual report year: 2014

Influence analysis of Arctic tide gauges using leverages
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Influence analysis of Arctic tide gauges using leverages
Publication: Research - peer-review › Poster – Annual report year: 2014

Acceleration of the Greenland ice sheet mass loss as observed by GRACE: Confidence and sensitivity
Publication: Research - peer-review › Journal article – Annual report year: 2013

A kernel version of multivariate alteration detection
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Analysis of sea-level reconstruction techniques for the Arctic Ocean
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Automated invariant alignment to improve canonical variates in image fusion of satellite and weather radar data
Publication: Research - peer-review › Journal article – Annual report year: 2012

Building damage assessment after the earthquake in Haiti using two post-event satellite stereo imagery and DSMs
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Interpolation in laser scanned height data
Publication: Commissioned › Report – Annual report year: 2013

Kernel based orthogonalization for change detection in hyperspectral images
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Some safe and sensible shortcuts for efficiently upscaled updates of existing elevation models
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2013

Using leverages for objective analysis of PSMSL tide gauges in Arctic Ocean sea level reconstruction
Publication: Research - peer-review › Poster – Annual report year: 2013

Acceleration of the GrIS mass loss as observed by GRACE
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2012

Change detection in full and dual polarization SAR data and the complex Wishart distribution
Publication: Research - peer-review › Paper – Annual report year: 2012

Classification of Polarimetric SAR Data Using Dictionary Learning
Publication: Research - peer-review › Conference article – Annual report year: 2012

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Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Linear and kernel methods for multivariate change detection
Publication: Research - peer-review › Journal article – Annual report year: 2012

Monitoring the change in colour of meat: A comparison of traditional and kernel-based orthogonal transformations
Publication: Research - peer-review › Journal article – Annual report year: 2012

Optimal Class Separation in Hyperspectral Image Data: Iterated Canonical Discriminant Analysis
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Parameter optimization in the regularized kernel minimum noise fraction transformation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

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A method for unsupervised change detection and automatic radiometric normalization in multispectral data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Change detection for semi-automatic map database updating
Publication: Research › Report – Annual report year: 2011

Explicit signal to noise ratio in reproducing kernel Hilbert spaces
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Improved Nowcasting of Heavy Precipitation Using Satellite and Weather Radar Data
Publication: Research - peer-review › Poster – Annual report year: 2011

Infrastructure assessment for disaster management using multi-sensor and multi-temporal remote sensing imagery
Publication: Research - peer-review › Journal article – Annual report year: 2011

Sparse principal component analysis in hyperspectral change detection
Publication: Research › Conference article – Annual report year: 2011

Automatic change detection in RapidEye data using the combined MAD and kernel MAF methods
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Bidrag til automatisering af ortofotomosaikfremstilling
Publication: Research - peer-review › Poster – Annual report year: 2010

Change detection by the IR-MAD and kernel MAF methods in Landsat TM data covering a Swedish forest region
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2010

Kernel based eigenvalue-decomposition methods for analysing ham
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Publication: Research - peer-review › Poster – Annual report year: 2010

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

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

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Publication: Research › Journal article – Annual report year: 2010

Seventeen years of global SSH anomalies analyzed by a max maximum information based extension to EOF analysis
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A kernel version of spatial factor analysis
Publication: Research - peer-review » Article in proceedings – Annual report year: 2009

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Publication: Research - peer-review » Conference abstract for conference – Annual report year: 2009

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Publication: Research - peer-review » Poster – Annual report year: 2009

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

Kernel empirical orthogonal function analysis of 1992-2008 global sea surface height anomaly data
Publication: Research - peer-review » Article in proceedings – Annual report year: 2009

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Publication: Research - peer-review » Conference abstract for conference – Annual report year: 2009

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

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

Recent sea level change analysed with kernel EOF
Publication: Research - peer-review » Conference abstract in proceedings – Annual report year: 2009

Treaty Monitoring
Publication: Research » Book chapter – Annual report year: 2009

Detection of Weather Radar Clutter
Publication: Research » Ph.D. thesis – Annual report year: 2008

Automatic Radiometric Normalization of Multitemporal Satellite Imagery with the Iteratively Re-weighted MAD Transformation
Publication: Research - peer-review » Journal article – Annual report year: 2008

Change detection using polarimetric synthetic aperture radar (SAR)
Publication: Research » Article in proceedings – Annual report year: 2008

Geostatistics and Analysis of Spatial Data
Publication: Education » Compendium/lecture notes – Annual report year: 2008

Investigation of alternative iteration schemes for the IR-MAD algorithm
Publication: Research » Conference article – Annual report year: 2008

Kernel principal component analysis for change detection
Publication: Research - peer-review » Article in proceedings – Annual report year: 2008
MAD change detection: a simple spatial extension and a nonlinear version
Publication: Research › Article in proceedings – Annual report year: 2008

Model-based satellite image fusion
Publication: Research - peer-review › Journal article – Annual report year: 2008

Advances in statistical change detection methods within the GMOSS Network
Publication: Research - peer-review › Book chapter – Annual report year: 2007

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Publication: Research › Article in proceedings – Annual report year: 2007

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Publication: Education › Compendium/lecture notes – Annual report year: 2007

On Spatial Priors for Satellite Image Fusion
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Orthogonal transformations for change detection, Matlab code (ENVI-like headers)
Publication: Research - peer-review › Computer programme – Annual report year: 2007

The Regularized Iteratively Reweighted MAD Method for Change Detection In Multi- and Hyperspectral Data
Publication: Research - peer-review › Journal article – Annual report year: 2007

Using differential SAR interferometry for the measurement of surface displacement caused by underground nuclear explosions and comparison with optical change detection results
Publication: Research - peer-review › Book chapter – Annual report year: 2007

Detecting Weather Radar Clutter by Information Fusion With Satellite Images and Numerical Weather Prediction Model Output
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Detecting weather radar clutter using satellite-based nowcasting products
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Effect of catch location, season and quality on value of Icelandic cod (Gadus morhua) products
Publication: Research - peer-review › Book chapter – Annual report year: 2006

Long-term and high resolution measurements of bed level changes in a temperate, microtidal coastal lagoon
Publication: Research - peer-review › Journal article – Annual report year: 2006
Segment-based change detection for polarimetric SAR data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Spectrally consistent satellite image fusion
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Spectrally Consistent Satellite Image Fusion with Improved Image Priors
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Visualization and unsupervised classification of changes in multispectral satellite imagery
Publication: Research - peer-review › Journal article – Annual report year: 2006

The use of Polarimetric EMISAR for the Mapping and Characterization of the Semi-Natural Environment
Publication: Research › Ph.D. thesis – Annual report year: 2005

An iterative extension to the MAD transformation for change detection in multi- and hyperspectral remote sensing data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

A non-parametric 2D deformable template classifier
Publication: Research - peer-review › Journal article – Annual report year: 2005

Change Detection for Remote Monitoring of Underground Nuclear Testing: Comparison with Seismic and Associated Explosion Source Phenomenological Data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Estimation of Critical Parameters in Concrete Production Using Multispectral Vision Technology
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Functional Maximum Autocorrelation Factors
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Multi- and hyperspectral remote sensing change detection with generalized difference images by the IR-MAD method
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Orthogonal transformations for change detection, Matlab code
Publication: Research - peer-review › Computer programme – Annual report year: 2005

Regularisation in multi- and hyperspectral remote sensing change detection
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Sensitive change detection for remote sensing monitoring of nuclear treaties
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Analysis of time-varying psoriasis lesion image patterns
Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

Automatic Radiometric Normalization of Multitemporal Satellite Imagery
Publication: Research - peer-review › Journal article – Annual report year: 2004

Detection of buildings through multivariate analysis of spectral, textural, and shape based features
Publication: Research - peer-review › Article in proceedings – Annual report year: 2004
Geostatistik og analyse af spatiale data
Publication: Education › Compendium/lecture notes – Annual report year: 2004

Hyperspectral Data, Change Detection and the MAD Transformation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

Kriging
Publication: Education › Compendium/lecture notes – Annual report year: 2004

Multi-set multi-temporal canonical analysis of psoriasis images
Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

Unsupervised classification of changes in multispectral satellite imagery
Publication: Research - peer-review › Article in proceedings – Annual report year: 2004

A test statistic in the complex Wishart distribution and its application to change detection in polarimetric SAR data
Publication: Research - peer-review › Journal article – Annual report year: 2003

CFAR Edge Detector for Polarimetric SAR Images
Publication: Research - peer-review › Journal article – Annual report year: 2003

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Evaluation of the Wishart Test Statistic for Polarimetric SAR Data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Evaluation of the Wishart test statistics for polarimetric SAR data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Polarimetric synthetic aperture radar data and the complex Wishart distribution
Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Exploratory Analysis of Multivariate Data (Unsupervised Image Segmentation and Data Driven Linear and Nonlinear Decomposition)
Publication: Research › Ph.D. thesis – Annual report year: 2002

A Bivariate Extension to Traditional Empirical Orthogonal Function Analysis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

A Change Oriented Extension of EOF Analysis Applied to the 1996-1997 AVHRR Sea Surface Temperature Data
Publication: Research - peer-review › Journal article – Annual report year: 2002

A Temporal Extension to Traditional Empirical Orthogonal Function Analysis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Linear and Nonlinear Multiset Canonical Correlation Analysis (invited talk)
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002
Multiset Canonical Correlations Analysis and Multispectral, Truly Multitemporal Remote Sensing Data
Publication: Research - peer-review › Journal article – Annual report year: 2002

Polarimetric Segmentation Using Wishart Test Statistic
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Simultaneous maximization of spatial and temporal autocorrelation in spatio-temporal data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Spatio-temporal analysis including multi-objective orthogonalisation and independent component analysis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

An ACE-based Nonlinear Extension to Traditional Empirical Orthogonal Function Analysis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

A Scheme for Initial Exploratory Data Analysis of Multivariate Image Data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

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Publication: Research › Report – Annual report year: 2001

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

Polarimetric Edge Detector Based on the Complex Wishart Distribution
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

Simultaneous Determination of Water Constituent Concentrations and Partial Least Squares
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

Spectral Mixture Analysis: Linear and Semi-parametric Full and Iterated Partial Unmixing in Multi- and Hyperspectral Image Data
Publication: Research - peer-review › Journal article – Annual report year: 2001

Spectral Mixture Analysis: Linear and Semi-parametric Full and Iterated Partial Unmixing in Multi- and Hyperspectral Image Data.
Publication: Research - peer-review › Journal article – Annual report year: 2001

A multivariate approach to seismic 4D analysis, Troll West Oil Province.
Publication: Research - peer-review › Report – Annual report year: 2000

A multivariate approach to seismic 4D analysis, Troll West Oil Province (2)
Publication: Research - peer-review › Report – Annual report year: 2000

Aspects of remote sensing of the GEOfoid and Sea level Of the North Atlantic Region (GEOSONAR) project
Publication: Research › Poster – Annual report year: 2000
Enhancement of Ocean Related Signal by Suppression of Undesired Spectra in Remotely Sensed Multivariate SeaWiFS Images in the GEOSONAR Project
Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

Maximum Autocorrelation Factorial Kriging
Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

New approaches for change detection studies
Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

Sensitivity study of a semiautomatic supervised classifier applied to minerals from x-ray mapping images
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Publication: Research - peer-review › Journal article – Annual report year: 2000

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Publication: Research › Article in proceedings – Annual report year: 2000

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

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Publication: Research › Poster – Annual report year: 2000

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Publication: Research - peer-review › Journal article – Annual report year: 1999

DANMAC: Final Report
Publication: Research - peer-review › Report – Annual report year: 1999

DECO: Mid-Term Report (2nd Annual Report)
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Publication: Research - peer-review › Report – Annual report year: 1999
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Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

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Publication: Research › Article in proceedings – Annual report year: 1998

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A Simple Neural Network Contextual Classifier
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Publication: Research - peer-review › Article in proceedings – Annual report year: 1996

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

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

Restoration of GERIS Data Using the Maximum Noise Fractions Transform
Publication: Research - peer-review › Article in proceedings – Annual report year: 1994

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

Aspects of analysis of multivariate, spatial data: Geochemistry from the Eastern Ertzgebirge
Publication: Research - peer-review › Article in proceedings – Annual report year: 1993

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

Analysis of Geochemical Data Sampled on a Regional Scale
Publication: Research - peer-review › Book chapter – Annual report year: 1992

Restoration of GERIS Data using the Maximum Noise Fractions Transformation
Publication: Research › Article in proceedings – Annual report year: 1992

Integration of multi-source data in mineral exploration
Publication: Research - peer-review › Article in proceedings – Annual report year: 1991

Noise removal in multichannel image data by a parametric maximum noise fraction estimator
Publication: Research - peer-review › Article in proceedings – Annual report year: 1991

A Geostatistical Approach to Indoor Surface Sampling Strategies
Publication: Research - peer-review › Journal article – Annual report year: 1990

Statistical methods and remote sensing techniques applied in analysis of combined geodata
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A dynamic test method for the thermal performance of small houses
Publication: Research - peer-review › Article in proceedings – Annual report year: 1984

Maisons consommant peu d’énergie: isolation et étanchéité à l’air/Low-Energy Houses: Insulation and Airtightness
Publication: Research - peer-review › Journal article – Annual report year: 1983
Projects:

Classification of Targets in Synthetic Aperture Radar Imaging
Project: PhD

Computerised Quantification of Motions Associated with Psychiatric Disorders
Project: PhD

Image Analysis for Nanoparticle Guided Radiotherapy
Project: PhD

Control and Surveillance of Automated Production Steps using Computer Vision
Project: PhD

Global and Artic Sea Level Change from Satellite Altimetry
Project: PhD

A Grand Challenge: Large Scale Event Recognition and Tracking
Project: PhD

SLS based dairy process control systems
Project: PhD

The Virtual Slaughterhouse - Constructing a virtual Knife
Project: PhD

CT Scanning and Automated Segmentation of Pig Bodies
Project: PhD

Detektering af falske ekkoer i data fra vejrradar
Project: PhD

Developement of Sttitistical Methods and Models for Evaluation and Determination of Environmental monitoring programs
Project: PhD

Fotogrammetrisk opbygning af 3D landskabs- og bymodeller
Project: PhD

Modelling of the geoid and the north Atlantic Sea level
Project: PhD

2D og 3D objektmåling til styring og kvalitetskontrol i industrien
Project: PhD

The use of polarimetric SAR for the mapping and characterization of the natural environment
Project: PhD
BioSonar (EU project MA53-CT95-0026)

DANMAC - DANish Multisensor Airborne Campaign

DECO, Danish Environmental monitoring of COastal waters. Project no.: 1221

GEOSONAR, GEOid and Sealevel Of the North Atlantic Region.

Bladskivebestemmelse for sukkerroer ved hjælp af billedanalyse

Vegetation and soil

Segmentering og efterfølgende visualisering af 3-dimensionelle billeddata

Statistiske metoder til genkendelse af mønstre og objektyper i billeder

Multivariate Data-analysis of regularly and irregularly sampled spatial data

Activities:

Multi-temporal images and semi-automatic map updating

Kernel methods in change detection based on generalised multivariate difference images

Least Squares Adjustment: Linear and Nonlinear Weighted Regression Analysis