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Use of Sparse Principal Component Analysis (SPCA) for Fault Detection


Research output: Research - peer-review › Conference article – Annual report year: 2017

Validation of Reported Whole-Grain Intake from a Web-Based Dietary Record against Plasma Alkylresorcinol Concentrations in 8- to 11-Year-Olds Participating in a Randomized Controlled Trial


Research output: Research - peer-review › Journal article – Annual report year: 2016

Visualizing multifactorial and multi-attribute effect sizes in linear mixed models with a view towards sensometrics


Research output: Research › Sound/Visual production (digital) – Annual report year: 2017

Vitamin D3 and 25-hydroxyvitamin D3 in pork and their relationship to vitamin D status in pigs


Research output: Research - peer-review › Journal article – Annual report year: 2016
Back scattering interferometry revisited – A theoretical and experimental investigation
Research output: Research - peer-review › Journal article – Annual report year: 2015

Battling Bluetongue and Schmallenberg virus: Local scale behavior of transmitting vectors
Stockmarr, A., Kirkeby, C. & Bedker, R. 2015
Research output: Research › Sound/Visual production (digital) – Annual report year: 2015

Battling Bluetongue and Schmallenberg virus: Local scale behavior of transmitting vectors
Stockmarr, A. 2015 In : Journal of infectious disease and therapy. 3, 4, p. 43
Research output: Research - peer-review › Conference abstract in journal – Annual report year: 2015

Big Data fra jord til bord
Research output: Communication › Report – Annual report year: 2015

Calculation of ruin probabilities for a dense class of heavy tailed distributions
Research output: Research - peer-review › Journal article – Annual report year: 2014

Challenges for bovine viral diarrhoea virus antibody detection in bulk milk by antibody enzyme-linked immunosorbent assays due to changes in milk production levels
Research output: Research - peer-review › Journal article – Annual report year: 2015

Characterization of the bacterial gut microbiota of piglets suffering from new neonatal porcine diarrhoea
Research output: Research - peer-review › Journal article – Annual report year: 2015

Characterizing Digital Light Processing (DLP) 3D Printed Primitives
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015

Combining analysis of variance and three-way factor analysis methods for studying additive and multiplicative effects in sensory panel data
Romano, R., Naes, T. & Brockhoff, P. B. 2015 In : Journal of Chemometrics. 29, 1, p. 29-37
Research output: Research - peer-review › Journal article – Annual report year: 2015

Computer-aided diagnosis of pulmonary diseases using x-ray darkfield radiography
Research output: Research - peer-review › Journal article – Annual report year: 2015

Design and analysis of biomedical studies
Research output: Research › Ph.D. thesis – Annual report year: 2015
Design of Experiments for Food Engineering
Pedersen, S. J., Frosch, S., Kulahci, M. & Geoffrey Vining, G. 2015 Søborg: National Food Institute, Technical University of Denmark. 133 p.

Development of LED Light Sources for Improved Visualization of Veins: a statistical approach
Argyraki, A., Clemmensen, L. K. H. & Petersen, P. M. 2015 1 p.
Research output: Research › peer-review › Conference abstract for conference – Annual report year: 2015

Do different spectral domain OCT hardwares measure the same? Comparison of retinal thickness using third-party software
Research output: Research › peer-review › Journal article – Annual report year: 2015

Effects of school meals based on the New Nordic Diet on intake of signature foods: a randomised controlled trial. The OPUS School Meal Study
Research output: Research › peer-review › Journal article – Annual report year: 2015

Efficient Estimating Functions for Stochastic Differential Equations
Jakobsen, N. M. 2015 University of Copenhagen. 181 p.
Research output: Research › Ph.D. thesis – Annual report year: 2015

Estimation of on-farm interventions to control Campylobacter
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2015

Evaluation of acceptance sampling related to sealing plug and pipe stub.
Research output: Communication › Report – Annual report year: 2015

Evaluation of back scatter interferometry, a method for detecting protein binding in solution
Research output: Research › peer-review › Journal article – Annual report year: 2014

Experiments for Multi-Stage Processes
Tyssedal, J. & Kulahci, M. 2015 In : Quality Technology and Quantitative Management. 12, 1, p. 13-28
Research output: Research › peer-review › Journal article – Annual report year: 2015

Farm specific risk factors for Campylobacter colonization of broilers in six European countries
Research output: Research › peer-review › Poster – Annual report year: 2015

Farm specific risk factors for Campylobacter colonization of broilers in six European countries
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2015

Fitting a distribution to microbial counts: Making sense of zeroes
Revising an OECD Test Guideline on toxicity in aquatic environments
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Risk factors for Campylobacter infection of broiler flocks
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Segmentation and characterization of fibers
Dahl, V. A. 2015
Research output: Research › Sound/Visual production (digital) – Annual report year: 2015

SensMixed R package: Easy-to-use application with graphical user interface for analyzing sensory and consumer data within a mixed effects model framework
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Short communication: Artificial ultraviolet B light exposure increases vitamin D levels in cow plasma and milk
Research output: Research - peer-review › Journal article – Annual report year: 2015

SigmaH for Switches and Crossings
Research output: Communication › Report – Annual report year: 2015

Significant decrease in yield under future climate conditions: Stability and production of 138 spring barley accessions
Research output: Research › peer-review › Journal article – Annual report year: 2015

Social ulighed i fedme og fedme-epidemien for børn
Research output: Research › Sound/Visual production (digital) – Annual report year: 2015

Social ulighed i fedme og fedme-epidemien for børn; et review
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015

Spatial factor analysis: a new tool for estimating joint species distributions and correlations in species range
Thorson, J. T., Scheuerell, M. D., Shelton, A. O., See, K. E., Skaug, H. J. & Kristensen, K. 2015 In : Methods in Ecology and Evolution. 6, 6, p. 627-637
Research output: Research - peer-review › Journal article – Annual report year: 2015

Statistical Data Mining for Efficient Quality Control in Manufacturing
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015
Les éléphants en danger
Research output: Research - peer-review › Book chapter – Annual report year: 2014

Analysis of micro-structure in raw and heat treated meat emulsions from multimodal X-ray microtomography
Research output: Research - peer-review › Journal article – Annual report year: 2014

A Comparison between Two Simulation Models for Spread of Foot-and-Mouth Disease
Research output: Research - peer-review › Journal article – Annual report year: 2014

Analysis of data for trending
Research output: Commissioned › Report – Annual report year: 2014

A national drug related problems database: evaluation of use in practice, reliability and reproducibility
Research output: Research - peer-review › Journal article – Annual report year: 2014

A Thurstonian comparison of the Tetrad and Degree of Difference tests
Research output: Research - peer-review › Journal article – Annual report year: 2014

Automatic sleep classification using a data-driven topic model reveals latent sleep states
Research output: Research - peer-review › Journal article – Annual report year: 2014

Can We Find Organic Materials in Food Using X-rays?
Research output: Research - peer-review › Poster – Annual report year: 2014

Capability analysis
Research output: Commissioned › Report – Annual report year: 2014

Common variants in CYP2R1 and GC genes are both determinants of serum 25-hydroxyvitamin D concentrations after UVB irradiation and after consumption of vitamin D3-fortified bread and milk during winter in Denmark
Research output: Research - peer-review › Journal article – Annual report year: 2014

Common Variants in CYP2R1 and GC Genes Predict Vitamin D Concentrations in Healthy Danish Children and Adults
Research output: Research - peer-review › Journal article – Annual report year: 2014

Consideration of sample heterogeneity and in-depth analysis of individual differences in sensory analysis
Research output: Research - peer-review › Journal article – Annual report year: 2014
Danish children born to parents with lower levels of education are more likely to become overweight
Research output: Research - peer-review › Journal article – Annual report year: 2014

Data-driven modeling of sleep EEG and EOG reveals characteristics indicative of pre-Parkinson's and Parkinson's disease
Research output: Research - peer-review › Journal article – Annual report year: 2014

Demystifying back scatter interferometry: a sensitive refractive index detector.
Research output: Research - peer-review › Conference abstract in journal – Annual report year: 2015

Detecting correlation between allele frequencies and environmental variables as a signature of selection. A fast computational approach for genome-wide studies
Research output: Research - peer-review › Journal article – Annual report year: 2013

Dictionary Snakes
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Dietary effects of introducing school meals based on the New Nordic Diet: a randomised controlled trial in Danish children. The OPUS School Meal Study
Research output: Research - peer-review › Journal article – Annual report year: 2014

Discussion of ‘The Statistical Evaluation of Categorical Measurements: `Simple Scales, but Treacherous Complexity Underneath’”
Kulahci, M. 2014 In : Quality Engineering. 26, 1, p. 40-43
Research output: Research - peer-review › Review – Annual report year: 2015

Disparities in dietary habits and physical activity in Denmark and trends from 1995 to 2008.
Research output: Research - peer-review › Journal article – Annual report year: 2014

Downstream DoE Parameters.
Research output: Communication › Report – Annual report year: 2014

DTU’s undersøgelser af lav adhæsion / glatte skinner for Transportministeriet og DSB
Research output: Commissioned › Report – Annual report year: 2014

Editorial - a Special Issue on Data Mining
Research output: Research › Editorial – Annual report year: 2014
Effectiveness of offering healthy labelled meals in improving the nutritional quality of lunch meals eaten in a worksite canteen
Lassen, A. D., Beck, A. M., Leedo, E., Andersen, E. W., Christensen, T., Mejborn, H., Thorsen, A. V. & Tetens, I. 2014 In : Appetite. 75, 1, p. 128-134
Research output: Research - peer-review › Journal article – Annual report year: 2014

Enabling optimization in LCA: from "ad hoc" to "structural" LCA approach—based on a biodiesel well-to-wheel case study
Research output: Research - peer-review › Journal article – Annual report year: 2013

Estimating spatio-temporal dynamics of size-structured populations
Research output: Research - peer-review › Journal article – Annual report year: 2013

Evaluation of alternative age-based methods for estimating relative abundance from survey data in relation to assessment models
Berg, C. W., Nielsen, A. & Kristensen, K. 2014 In : Fisheries Research. 151, p. 91-99
Research output: Research - peer-review › Journal article – Annual report year: 2013

Factors influencing observed and self-reported functional ability in women with chronic widespread pain: A cross-sectional study
Research output: Research - peer-review › Journal article – Annual report year: 2014

Fluorescence in situ hybridization investigation of potentially pathogenic bacteria involved in neonatal porcine diarrhea
Research output: Research - peer-review › Journal article – Annual report year: 2014

How do student evaluations of courses and of instructors relate?
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Hyperspectral imaging based on diffused laser light for prediction of astaxanthin coating concentration
Research output: Research - peer-review › Journal article – Annual report year: 2013

Improved overall survival after implementation of targeted therapy for patients with metastatic renal cell carcinoma: Results from the Danish Renal Cancer Group (DARENCA) study-2
Research output: Research - peer-review › Journal article – Annual report year: 2013

Influence of consumer's background on product perception
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014
In vivo Comet assay – statistical analysis and power calculations of mice testicular cells
Research output: Research - peer-review › Journal article – Annual report year: 2014

IT-pedagogical Think Tank for Teacher-teams in Global Classroom, A Model for Continuous Competence Development with a Focus on Reflection, Innovation, Motivation and Engagement
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Maximizing entropy over Markov processes
Research output: Research - peer-review › Conference article – Annual report year: 2014

Method for detection of an abnormal sleep pattern in a person
Research output: Research › Patent – Annual report year: 2014

Multiphase Image Segmentation Using the Deformable Simplicial Complex Method
Research output: Research › peer-review › Article in proceedings – Annual report year: 2014

Multivariate phase type distributions - Applications and parameter estimation
Research output: Research › Ph.D. thesis – Annual report year: 2014

Novel X-ray phase-contrast tomography method for quantitative studies of heat induced structural changes in meat
Research output: Research › peer-review › Journal article – Annual report year: 2014

Obituary: Marcel F. Neuts 1935-2014
Research output: Communication › Journal article – Annual report year: 2014

On the use of functional calculus for phase-type and related distributions
Research output: Research › Report – Annual report year: 2014

On Weighted Support Vector Regression
Han, X. & Clemmensen, L. K. H. 2014 In : Quality and Reliability Engineering International. 30, 6, p. 891-903
Research output: Research › peer-review › Journal article – Annual report year: 2014

Optimering af billetkontrol.
Research output: Communication › Report – Annual report year: 2014

Paired preference data with a no-preference option – Statistical tests for comparison with placebo data
Research output: Research › peer-review › Journal article – Annual report year: 2014
Quantitative assessment of the risk of introduction of bovine viral diarrhea virus in Danish dairy herds
Research output: Research - peer-review › Journal article – Annual report year: 2014

Real-life use of vitamin D₃ fortified bread and milk during a winter season: the effects of CYP2R1 and GC genes on 25-hydroxyvitamin D concentrations in Danish families, the VitmaD study.
Research output: Research - peer-review › Journal article – Annual report year: 2014

Segmentation of Connective Tissue in Meat from Microtomography Using a Grating Interferometer
Research output: Research › Conference abstract for conference – Annual report year: 2014

Segmentation Toolbox for Tomographic Image Data
Einarsdottir, H. 2014 1 p.
Research output: Research › Poster – Annual report year: 2014

Selecting groups of covariates in the elastic net
Research output: Research › Report – Annual report year: 2014

Short mandible - a possible risk factor for cleft palate with/without a cleft lip
Research output: Research - peer-review › Journal article – Annual report year: 2014

Sparse and shrunken estimates of MRI networks in the brain and their influence on network properties
Research output: Research - peer-review › Conference article – Annual report year: 2014

Statistical prediction of biomethane potentials based on the composition of lignocellulosic biomass
Thomsen, S. T., Spliid, H. & Østergård, H. 2014 In : Bioresource Technology. 154, p. 80-86
Research output: Research - peer-review › Journal article – Annual report year: 2014

Status for NEXIM New X-ray Imaging Modalities for safe and high quality food
Research output: Research - peer-review › Report chapter – Annual report year: 2014

Stochastic simulation modeling to determine time to detect Bovine Viral Diarrhea antibodies in bulk tank milk
Research output: Research - peer-review › Journal article – Annual report year: 2014

Study Delay
Research output: Research › Report – Annual report year: 2014

Superior performance of constant-saltier-reference DTF and DTFM to same-different tests by consumers for discriminating products varying sodium contents
Supervised feature selection for linear and non-linear regression of Lab color from multispectral images of meat

Surface Detection using Round Cut

The importance of spatial models for estimating the strength of density dependence

The MAM-CAP table: A new tool for monitoring panel performances

The Relationship between Mechanical Hyperalgesia Assessed by Manual Tender Point Examination and Disease Severity in Patients with Chronic Widespread Pain: A Cross-Sectional Study

The type I error rate for in vivo Comet assay data when the hierarchical structure is disregarded

Trends in overweight and obesity in Danish children and adolescents: 2000-2008 – exploring changes according to parental education

Trends in pedometer-measured steps per day in Danish adults: 2007 to 2012

Understanding traffic crash under-reporting: linking police and medical records to individual and crash characteristics

Upstream DoE Parameters.

Vitamin D status and its determinants in children and adults among families in late summer in Denmark.
Analysis of factors important for the occurrence of Campylobacter in Danish broiler flocks
Research output: Research - peer-review › Journal article – Annual report year: 2013

Analysis of sensory ratings data with cumulative link models
Research output: Research - peer-review › Journal article – Annual report year: 2013

A new method for image segmentation based on Fuzzy C-means algorithm on pixonal images formed by bilateral filtering
Research output: Research - peer-review › Journal article – Annual report year: 2013

A New Paradigm in Mortgage Loan Advice
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Application of X-ray phase-contrast tomography in quantitative studies of heat induced structural changes in meat
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

A sampling approach for predicting the eating quality of apples using visible–near infrared spectroscopy
Vega, M. V. M., Sharifzadeh, S., Wulfsohn, D., Skov, T., Clemmensen, L. K. H. & Toldam-Andersen, T. B. 2013 In : Journal of the Science of Food and Agriculture. 93, 15, p. 3710–3719
Research output: Research - peer-review › Journal article – Annual report year: 2013

Automatic scatter detection in fluorescence landscapes by means of spherical principal component analysis
Kotwa, E. K., Jørgensen, B. M., Brockhoff, P. B. & Frosch, S. 2013 In : Journal of Chemometrics. 27, 1-2, p. 3-11
Research output: Research - peer-review › Journal article – Annual report year: 2013

Cell-Mediated and Humoral Immune Responses after Immunization of Calves with a Recombinant Multiantigenic Mycobacterium avium subsp. paratuberculosis Subunit Vaccine at Different Ages
Research output: Research - peer-review › Journal article – Annual report year: 2013

Class 4 Defects
Research output: Research › Report – Annual report year: 2013

Code Generation for Protocols from CPN models Annotated with Pragmatics
Research output: Research › Report – Annual report year: 2013

Comparison of estimated energy intake in children using a Web-based Dietary Assessment Software with accelerometer-estimated energy expenditure in children
Research output: Research - peer-review › Journal article – Annual report year: 2014
Contextual Multivariate Segmentation of Pork Tissue from Grating-Based Multimodal X-Ray Tomography
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Correlation of iris biometrics and DNA
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Data Mining—A Special Issue of Quality and Reliability Engineering International (QREI)
Research output: Research - peer-review › Editorial – Annual report year: 2013

DCT-Based Characterization of Milk Products Using Diffuse Reflectance Images
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Dynamic changes in antibody levels as an early warning of Salmonella Dublin in bovine dairy herds
Stockmarr, A., Bødker, R. & Nielsen, L. R. 2013 In : Journal of Dairy Science. 96, 12, p. 7558-7564
Research output: Research - peer-review › Journal article – Annual report year: 2013

Effectiveness of offering keyhole labelled meals in improving the nutritional quality of lunch meals eaten in worksite canteens
Research output: Research - peer-review › Conference abstract in journal – Annual report year: 2013

Effect of fat type and heat treatment on the microstructure of meat emulsions
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Effects of intraspecific variation in reproductive traits, pectoral fin use and burst swimming on metabolic rates and swimming performance in the Trinidadian guppy (Poecilia reticulata)
Research output: Research - peer-review › Journal article – Annual report year: 2013

Effects of mid-term student evaluations of teaching as measured by end-of-term evaluations: An empirical study of course evaluations
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Estimating passenger numbers in trains using existing weighing capabilities
Research output: Research - peer-review › Journal article – Annual report year: 2013

Favorable results after total wrist arthroplasty: 65 wrists in 60 patients followed for 5–9 years
Research output: Research - peer-review › Journal article – Annual report year: 2013
The range of attraction for light traps catching Culicoides biting midges (Diptera: Ceratopogonidae)
Kirkeby, C., Græsbøll, K., Stockmarr, A., Christiansen, L. E. & Bedker, R. 2013 In : Parasites & Vectors. 6, 1, 19 p., 67
Research output: Research - peer-review › Journal article – Annual report year: 2013

The Statistical Value Chain - a Benchmarking Checklist for Decision Makers to Evaluate Decision Support Seen from a Statistical Point-Of-View
Research output: Research - peer-review › Journal article – Annual report year: 2014

Using multilevel systematic sampling to study apple fruit (Malus domestica Borkh.) quality and its variability at the orchard scale
Martínez Vega, M. V., Wulfsohn, D., Clemmensen, L. K. H. & Toldam-Andersen, T. B. 2013 In : Scientia Horticulturae. 161 , p. 58-64
Research output: Research - peer-review › Journal article – Annual report year: 2013

Using Multispectral Imaging for Spoilage Detection of Pork Meat
Dissing, B. S., Papadopoulou, O. S., Tassou, C., Ersbøll, B. K., Carstensen, J. M., Z. Panagou, E. & Nychas, G-J. 2013 In : Food and Bioprocess Technology. 6, 9, p. 2268-2279
Research output: Research - peer-review › Journal article – Annual report year: 2014

Using X-ray imaging to study thermal-induced changes in food
Research output: Research › Poster – Annual report year: 2013

Vitamin D status among families in Denmark: Baseline data from the vitmad study
Research output: Research - peer-review › Conference abstract in journal – Annual report year: 2013

What’s (in) a real smoothie. A division of linguistic labour in consumers’ acceptance of name–product combinations?
Smith, V., Green-Petersen, D., Magelvang-Hansen, P., Christensen, R. H. B., Qvistgaard, F. & Hyldig, G. 2013 In : Appetite. 63, p. 129-140
Research output: Research › Journal article – Annual report year: 2013

Workshop on Farm Animal and Food Quality Imaging 2013: Espoo, Finland, June 17, 2013, Proceedings
Research output: Research › Report – Annual report year: 2013

Wound healing in rainbow trout (Oncorhynchus mykiss) and common carp (Cyprinus carpio): with a focus on gene expression and wound imaging
Research output: Research › Ph.D. thesis – Annual report year: 2014

Dismantling the Mantel tests
Research output: Research - peer-review › Journal article – Annual report year: 2012

Fitting a distribution to microbial counts: making sense of zeros
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Regressions modeller: Hvad regresserer vi på og hvorfor?
Stockmarr, A. 2012
Research output: Research - peer-review › 2D/3D (physical products) – Annual report year: 2013