Cognitive Systems - Publications - DTU Orbit (25/03/2018)

A Diagnostic and Predictive Framework for Wind Turbine Drive Train Monitoring
Publication: Research › Ph.D. thesis – Annual report year: 2018

Altered auditory processing and effective connectivity in 22q11.2 deletion syndrome
Publication: Research - peer-review › Journal article – Annual report year: 2018

Automatic skull segmentation from MR images for realistic volume conductor models of the head: Assessment of the state-of-the-art
Publication: Research - peer-review › Journal article – Annual report year: 2018

Benefits of spatio-temporal modelling for short term wind power forecasting at both individual and aggregated levels
Publication: Research - peer-review › Journal article – Annual report year: 2018

Deep Generative Models for Semi-Supervised Machine Learning
Publication: Research › Ph.D. thesis – Annual report year: 2018

Deep learning for automated drivetrain fault detection
Publication: Research - peer-review › Journal article – Annual report year: 2018

Design process robustness: A bi-partite network analysis reveals the central importance of people
Piccolo, S., Jørgensen, S. L. & Maier, A. 2018 In : Design Science Journal. 4, e1
Publication: Research - peer-review › Journal article – Annual report year: 2018

Functional Connectivity using a Wishart Mixture Model
Publication: Research - peer-review › Article in proceedings – Annual report year: 2018

Optimizing targeted vaccination across cyber-physical networks: an empirically based mathematical simulation study
Publication: Research - peer-review › Journal article – Annual report year: 2018

Predictive assessment of models for dynamic functional connectivity
Publication: Research - peer-review › Journal article – Annual report year: 2017

Task-Modulated Cortical Representations of Natural Sound Source Categories
Publication: Research - peer-review › Journal article – Annual report year: 2018

Understanding predictability and exploration in human mobility
Publication: Research - peer-review › Journal article – Annual report year: 2018
Bayesian inference for spatio-temporal spike-and-slab priors
Publication: Research - peer-review › Journal article – Annual report year: 2018

Bayesian Modelling of Functional Whole Brain Connectivity
Publication: Research › Ph.D. thesis – Annual report year: 2017

Bayesian state prediction of wind turbine bearing failure
Publication: Research - peer-review › Journal article – Annual report year: 2017

Boganmeldelse: Pascal - Matematik og mirakler
Publication: Communication › Literature review – Annual report year: 2017

Can smartphone-based electronic markers discriminate between patients with bipolar disorder, healthy first-degree relatives and healthy control individuals
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2017

Class attendance, peer similarity, and academic performance in a large field study
Publication: Research - peer-review › Journal article – Annual report year: 2017

Contact activity and dynamics of the social core
Publication: Research - peer-review › Journal article – Annual report year: 2017

Correlations between human mobility and social interaction reveal general activity patterns
Publication: Research - peer-review › Journal article – Annual report year: 2017

Data Mining and Visualization of Large Human Behavior Data Sets
Publication: Research › Ph.D. thesis – Annual report year: 2017

DeepLoc: prediction of protein subcellular localization using deep learning
Publication: Research - peer-review › Journal article – Annual report year: 2017

Deep recurrent conditional random field network for protein secondary prediction
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Difference-of-Convex optimization for variational kl-corrected inference in dirichlet process mixtures
EEG Based Inference of Spatio-Temporal Brain Dynamics
Publication: Research › Ph.D. thesis – Annual report year: 2017

EEG in the classroom: Synchronised neural recordings during video presentation
Publication: Research - peer-review › Journal article – Annual report year: 2017

EEG source imaging assists decoding in a face recognition task
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Effective connectivity and gamma oscillations in a group at risk of psychosis
Publication: Research › Ph.D. thesis – Annual report year: 2017

Electrophysiological evidence for differences between fusion and combination illusions in audiovisual speech perception
Publication: Research - peer-review › Journal article – Annual report year: 2017

End-to-end information extraction without token-level supervision
Publication: Research - peer-review › Journal article – Annual report year: 2017

Enhancing User Experience in Next Generation Mobile Devices Using Eye Tracking as a Biometric Sensor
Publication: Research › Ph.D. thesis – Annual report year: 2017

Evidence of complex contagion of information in social media: An experiment using Twitter bots
Publication: Research - peer-review › Journal article – Annual report year: 2017

Examination of heterogeneous societies: Identifying subpopulations by contrasting cultures
Publication: Research - peer-review › Journal article – Annual report year: 2016

Excavating the mother lode of human-generated text: A systematic review of research that uses the Wikipedia corpus
Publication: Research - peer-review › Journal article – Annual report year: 2016

FindZebra - using machine learning to aid diagnosis of rare diseases
Publication: Research › Ph.D. thesis – Annual report year: 2017

Fostering Bilateral Patient-Clinician Engagement In Active Self-Tracking of Subjective Experience
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017
From concept to in vivo testing: Microcontainers for oral drug delivery
Publication: Research - peer-review › Journal article – Annual report year: 2017

From Raw Data to Social Systems - Separating the Signal from the Noise in Smartphone Sensor Measurements
Publication: Research › Ph.D. thesis – Annual report year: 2017

Gaussian process based independent analysis for temporal source separation in fMRI
Publication: Research - peer-review › Journal article – Annual report year: 2017

Generative Temporal Modelling of Neuroimaging - Decomposition and Nonparametric Testing
Publication: Research › Ph.D. thesis – Annual report year: 2017

Gradient distortions in EEG provide motion tracking during simultaneous EEG-fMRI
Laustsen, M., Andersen, M., Madsen, K. H. & Hanson, L. G. 2017
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Hearables in hearing care: discovering usage patterns through IoT devices
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

High temperature SU-8 pyrolysis for fabrication of carbon electrodes
Publication: Research - peer-review › Journal article – Annual report year: 2017

Improved detection of chemical substances from colorimetric sensor data using probabilistic machine learning
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Inferring human intentions from the brain data
Publication: Research › Ph.D. thesis – Annual report year: 2017

Inferring Person-to-person Proximity Using WiFi Signals
Publication: Research - peer-review › Journal article – Annual report year: 2017
Large Scale Computing for the Modelling of Whole Brain Connectivity
Publication: Research › Ph.D. thesis – Annual report year: 2017

Modeling dynamic functional connectivity using a wishart mixture model
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Modeling Structural Brain Connectivity
Publication: Research › Ph.D. thesis – Annual report year: 2017

Modeling the Temporal Nature of Human Behavior for Demographics Prediction
Publication: Research - peer-review › Book chapter – Annual report year: 2017

Modelling Digital Media Objects
Publication: Research › Ph.D. thesis – Annual report year: 2017

Multi-scale spatio-temporal analysis of human mobility
Publication: Research - peer-review › Journal article – Annual report year: 2017

On the Keyhole Hypothesis: High Mutual Information between Ear and Scalp EEG
Mikkelsen, K. B., Kidmose, P. & Hansen, L. K. 2017 In : Frontiers in Human Neuroscience. 11, 9 p., 341
Publication: Research - peer-review › Journal article – Annual report year: 2017

Open semantic analysis: The case of word level semantics in Danish
Nielsen, F. Å. & Hansen, L. K. 2017 Proceedings of 8th Language and Technology Conference . 5 p.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Optimal allocation of reviewers for peer feedback
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Phenomenological theory of collective decision-making
Publication: Research - peer-review › Journal article – Annual report year: 2017

Probabilistic models for structured sparsity
Publication: Research › Ph.D. thesis – Annual report year: 2017
Quantifying Feedback – Insights Into Peer Assessment Data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Quantifying functional connectivity in multi-subject fMRI data using component models
Publication: Research - peer-review › Journal article – Annual report year: 2016

Reducing the rate and duration of Re-ADMISsions among patients with unipolar disorder and bipolar disorder using smartphone-based monitoring and treatment - the RADMIS trials: Study protocol for two randomized controlled trials
Faurholt-Jepsen, M., Frost, M., Martiny, K., Tuxen, N., Rosenberg, N., Busk, J., Winther, O., Bardram, J. E. & Kessing, L. V. 2017 In : Trials. 18, 1, 13 p., 277
Publication: Research - peer-review › Journal article – Annual report year: 2017

Rethinking Hearing Aid Fitting by Learning From Behavioral Patterns
Association for Computing Machinery, p. 1733-1739 7 p.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Risk for affective disorders is associated with greater prefrontal gray matter volumes: A prospective longitudinal study
Publication: Research - peer-review › Journal article – Annual report year: 2017

Scalable group level probabilistic sparse factor analysis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Scholia and scientometrics with Wikidata
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Scholia, Scientometrics and Wikidata
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Second-Order Assortative Mixing in Social Networks
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Semi-Supervised Generation with Cluster-aware Generative Models
Publication: Research - peer-review › Journal article – Annual report year: 2017

SensibleSleep: A Bayesian Model for Learning Sleep Patterns from Smartphone Events
Publication: Research - peer-review › Journal article – Annual report year: 2017

Separable explanations of neural network decisions
Sequence Classification Using Third-Order Moments
Publication: Research › Journal article – Annual report year: 2017

Sparse Probabilistic Parallel Factor Analysis for the Modeling of PET and Task-fMRI Data
Publication: Research - peer-review › Journal article – Annual report year: 2017

The Bipolar Illness Onset study: research protocol for the BIO cohort study
Publication: Research - peer-review › Journal article – Annual report year: 2017

The Choice of Prior in Bayesian Modeling of the Information Sampling Task
Axelsen, M. C., Jepsen, J. R. M. & Bak, N. 2017 In : Biological Psychiatry. 2 p.
Publication: Research - peer-review › Journal article – Annual report year: 2017

The circle equation over finite fields
Publication: Research - peer-review › Journal article – Annual report year: 2017

The GO-ACTIWE randomized controlled trial - An interdisciplinary study designed to investigate the health effects of active commuting and leisure time physical activity
Publication: Research - peer-review › Journal article – Annual report year: 2017

The missing link: Predicting connectomes from noisy and partially observed tract tracing data
Publication: Research - peer-review › Journal article – Annual report year: 2017

The role of gender in social network organization
Publication: Research - peer-review › Journal article – Annual report year: 2017

Transformations Based on Continuous Piecewise-Affine Velocity Fields
Publication: Research - peer-review › Journal article – Annual report year: 2017

Two subgroups of antipsychotic-naive, first-episode schizophrenia patients identified with a Gaussian mixture model on cognition and electrophysiology
Publication: Research - peer-review › Journal article – Annual report year: 2017

Unraveling fermentation data – a Novozymes case study
Baum, A., Vermue, L., Moiseyenko, R., Jørgensen, T. M. & Devantier, R. 2017
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017
Archetypal Analysis for Modeling Multisubject fMRI Data
Publication: Research - peer-review › Journal article – Annual report year: 2016

Assessing Levels of Attention Using Low Cost Eye Tracking
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Assessment of Rotationally-Invariant Clustering Using Streamlet Tractography
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

A theory of solving TAP equations for Ising models with general invariant random matrices
Publication: Research - peer-review › Journal article – Annual report year: 2016

Autoencoding beyond pixels using a learned similarity metric
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Auxiliary Deep Generative Models
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Bayesian latent feature modeling for modeling bipartite networks with overlapping groups
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Bayesian leave-one-out cross-validation approximations for Gaussian latent variable models
Publication: Research - peer-review › Journal article – Annual report year: 2017

Blu-ray based optomagnetic aptasensor for detection of small molecules
Publication: Research - peer-review › Journal article – Annual report year: 2016
Independent vector analysis for capturing common components in fMRI group analysis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Inferring Stop-Locations from WiFi
Publication: Research - peer-review › Journal article – Annual report year: 2016

Ladder Variational Autoencoder
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Literature, Geolocation and Wikidata
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Measure of Node Similarity in Multilayer Networks
Publication: Research - peer-review › Journal article – Annual report year: 2016

Measuring Motion-Induced B0-Fluctuations in the Brain Using Field Probes
Publication: Research - peer-review › Journal article – Annual report year: 2016

Neural Markers of Responsiveness to the Environment in Human Sleep
Publication: Research - peer-review › Journal article – Annual report year: 2016

Obtaining Data on Hearing Experience Through Self-tracking
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Open Problem: Kernel methods on manifolds and metric spaces: What is the probability of a positive definite geodesic exponential kernel?
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Optimization of neural networks for time-domain simulation of mooring lines
Publication: Research - peer-review › Journal article – Annual report year: 2016

Oxytocin improves synchronisation in leader-follower interaction
Gebauer, L., Witek, M. A. G., Hansen, N. C., Thomas, J., Konvalinka, I. & Vuust, P. 2016 In : Scientific Reports. 6, p. 38416 38416
Publication: Research - peer-review › Journal article – Annual report year: 2016
Predicting the emotions expressed in music
Publication: Research › Ph.D. thesis – Annual report year: 2016

Prediction and adaptation mechanisms facilitating interpersonal coordination
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2017

Prospective motion correction for MRI using EEG-equipment
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Recovery from an acute relapse is associated with changes in motor resting-state connectivity in multiple sclerosis
Publication: Research - peer-review › Letter – Annual report year: 2016

Retrieving Radio News Broadcasts in Danish: Accuracy and Categorization of Unrecognized Words
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Scalable Robust Principal Component Analysis Using Grassmann Averages
Publication: Research - peer-review › Journal article – Annual report year: 2016

Sequential neural models with stochastic layers
Publication: Research - peer-review › Journal article – Annual report year: 2017

Spatio-temporal reconstruction of brain dynamics from EEG with a Markov prior
Publication: Research - peer-review › Journal article – Annual report year: 2016

Strategies of Legitimacy Through Social Media: The Networked Strategy
Publication: Research - peer-review › Journal article – Annual report year: 2015

Structural parcellation of the thalamus using shortest-path tractography
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016
Supervised hub-detection for brain connectivity
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Surface-enhanced Raman spectroscopic study of DNA and 6-mercapto-1-hexanol interactions using large area mapping
Publication: Research - peer-review › Journal article – Annual report year: 2016

Syncopation affects free body-movement in musical groove
Publication: Research - peer-review › Journal article – Annual report year: 2016

Task relevance differentially shapes ventral visual stream sensitivity to visible and invisible faces
Publication: Research - peer-review › Journal article – Annual report year: 2016

The Center for Integrated Molecular Brain Imaging (Cimbi) database
Publication: Research - peer-review › Journal article – Annual report year: 2015

The Functional Segregation and Integration Model: Mixture Model Representations of Consistent and Variable Group-Level Connectivity in fMRI
Publication: Research - peer-review › Journal article – Annual report year: 2016

The influence of hyper-parameters in the infinite relational model
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

The middle ear immune defense changes with age
Publication: Research - peer-review › Journal article – Annual report year: 2015

Towards Improving Overview and Metering through Visualisation and Dynamic Query Filters for User Interfaces Implementing the Stage Metaphor for Music Mixing
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Towards Motion-Insensitive Magnetic Resonance Imaging Using Dynamic Field Measurements.
Andersen, M., Hanson, L. G. & Madsen, K. H. 2016 Technical University of Denmark, Department of Electrical Engineering. 109 p.
Publication: Research › Ph.D. thesis – Annual report year: 2016

Training shortest-path tractography: Automatic learning of spatial priors
Using Concrete and Realistic Data in Evaluating Initial Visualization Designs

Variational group-PCA for intrinsic dimensionality determination in fMRI data

Voice analysis as an objective state marker in bipolar disorder
Faurholt-Jepsen, M., Busk, J., Frost, M., Vinberg, M., Christensen, E. M., Winther, O., Bardram, J. E. & Kessing, L. V. 2016 In : Translational Psychiatry. 6, 7, 8 p., e856

Voice analysis as an objective state marker in bipolar disorder

Method of and System for Information Retrieval
Winther, O. & Svenstrup, D. T. 18 Jun 2015

A genomewide catalogue of single nucleotide polymorphisms in white-beaked and Atlantic white-sided dolphins

Airway Inflammation in Chronic Rhinosinusitis with Nasal Polyps and Asthma: The United Airways Concept Further Supported

A Random Riemannian Metric for Probabilistic Shortest-Path Tractography

A Spatial Model for the Instantaneous Estimation of Wind Power at a Large Number of Unobserved Sites

Audiovisual Integration of Speech in a Patient with Broca's Aphasia
Andersen, T. & Starrfelt, R. 2015 In : Frontiers in Psychology. 6, p. 1-10 11 p., 435

Cellular origin of prognostic chromosomal aberrations in AML patients
Classification of independent components of EEG into multiple artifact classes
Publication: Research - peer-review › Journal article – Annual report year: 2014

Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Etter, M. A. & Nielsen, F. Å. 2015 In : Corporate Communications. 20, 4, p. 431-447
Publication: Research - peer-review › Journal article – Annual report year: 2015

Combining text mining and coordinate-based meta-analysis
Nielsen, F. Å. 2015
Publication: Research › Sound/Visual production (digital) – Annual report year: 2015

Convolutional LSTM Networks for Subcellular Localization of Proteins
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

CRIM-TRACK: Sensor System for Detection of Criminal Chemical Substances
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Deep Belief Nets for Topic Modeling
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Deep Learning and Music Adversaries
Publication: Research - peer-review › Journal article – Annual report year: 2015

Deep learning, audio adversaries, and music content analysis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Degradation studies of spray coated polymer films using cantilever sensors
Publication: Research - peer-review › Poster – Annual report year: 2015

Differential Gene Expression in the Otic Capsule and the Middle Ear-An Annotation of Bone-Related Signaling Genes
Publication: Research - peer-review › Journal article – Annual report year: 2015
Nonparametric modeling of dynamic functional connectivity in fMRI data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Numerical approximations for speeding up MCMC inference in the infinite relational model
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

On Geodesic Exponential Kernels
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Online Open Neuroimaging Mass Meta-Analysis with a Wiki
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Opportunities and Challenges in Crowdsourced Wardriving
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Patterns of trawling exploitation and the occurrence of hypoxia in the Baltic Sea
Publication: Research › Report – Annual report year: 2015

Perception-Based Personalization of Hearing Aids Using Gaussian Processes and Active Learning
Publication: Research - peer-review › Journal article – Annual report year: 2015

Principal Curves on Riemannian Manifolds
Publication: Research - peer-review › Journal article – Annual report year: 2015

Rare disease diagnosis: A review of web search, social media and large-scale data-mining approaches
Svenstrup, D. T., Jørgensen, H. L. & Winther, O. 2015 In : Rare Diseases (Online). 3, 1, p. e1083145
Publication: Research - peer-review › Journal article – Annual report year: 2015

Recurrent Spatial Transformer Networks
Publication: Research › Journal article – Annual report year: 2015

Robustness and modular structure in networks
Publication: Research - peer-review › Journal article – Annual report year: 2016
Role of emotional processing in depressive responses to sex-hormone manipulation: a pharmacological fMRI study
Publication: Research - peer-review › Journal article – Annual report year: 2015

S-AMP for non-linear observation models
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Self-Disorder and Brain Processing of Proprioception in Schizophrenia Spectrum Patients: A Re-Analysis
Publication: Research - peer-review › Journal article – Annual report year: 2015

SOA thresholds for the perception of discrete/continuous tactile stimulation
Publication: Research - peer-review › Paper – Annual report year: 2015

Statistical analysis of large areas of Raman mapped DNA functionalized gold coated silicon nanopillar SERS substrates
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Statistical learning for predictive targeting in online advertising
Publication: Research › Ph.D. thesis – Annual report year: 2015

Synchronised and complementary coordination mechanisms in an asymmetric joint aiming task
Publication: Research - peer-review › Journal article – Annual report year: 2014

Systems for Personalization of Hearing Instruments: A Machine Learning Approach
Publication: Research › Ph.D. thesis – Annual report year: 2015

Temporal fidelity in dynamic social networks
Publication: Research - peer-review › Journal article – Annual report year: 2015

Testing Multimodal Integration Hypotheses with Application to Schizophrenia Data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

The Danish 22q11 research initiative
Publication: Research - peer-review › Journal article – Annual report year: 2015

The early maximum likelihood estimation model of audiovisual integration in speech perception
Publication: Research - peer-review › Journal article – Annual report year: 2015
"The Sum of All Human Knowledge": A Systematic Review of Scholarly Research on the Content of Wikipedia
Publication: Research - peer-review › Journal article – Annual report year: 2014

Thinking outside of the box or enjoying your 2 seconds of frame?
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Topological Rankings in Communication Networks
Publication: Research - peer-review › Journal article – Annual report year: 2015

Towards quantitative SERS detection of hydrogen cyanide at ppb level for human breath analysis
Publication: Research - peer-review › Journal article – Annual report year: 2015

Tracking Human Mobility Using WiFi Signals
Publication: Research - peer-review › Journal article – Annual report year: 2015

Transcranial Magnetic Stimulation: An Automated Procedure to Obtain Coil-specific Models for Field Calculations
Madsen, K. H., Ewald, L., Siebner, H. R. & Thielscher, A. 2015 In : Brain Stimulation. 8, 6, p. 1205-1208
Publication: Research - peer-review › Journal article – Annual report year: 2015

Tumor suppressor ASXL1 is essential for the activation of INK4B expression in response to oncogene activity and anti-proliferative signals
Publication: Research - peer-review › Journal article – Annual report year: 2015

Unsupervised segmentation of task activated regions in fmRI
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Variation in adaptive resilience underscores differences in vulnerability to a changing environment for an ecologically important freshwater fish species
Publication: Research › Report – Annual report year: 2015

Vibration-based SHM System: Application to Wind Turbine Blades
Tcherniak, D. & Malgaard, L. L. 2015 In : Journal of Physics: Conference Series. 628, 1, 9 p., 012072
Publication: Research - peer-review › Journal article – Annual report year: 2015

Cross-categorization of legal concepts across boundaries of legal systems: in consideration of inferential links
Publication: Research - peer-review › Journal article – Annual report year: 2014
A Centrifugal Microfluidic Platform for Biomarker Detection in Blood using BluRay Technology
Publication: Research - peer-review › Poster – Annual report year: 2014

Action and Language Mechanisms in the Brain: Data, Models and Neuroinformatics
Publication: Research - peer-review › Journal article – Annual report year: 2014

Adapting the Theory of Visual Attention (TVA) to model auditory attention
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Analyzing Social Interactions: Promises and Challenges of Cross Recurrence Quantification Analysis
Fusaroli, R., Konvalinka, I. & Wallot, S. 2014
Publication: Research - peer-review › Book chapter – Annual report year: 2014

Are deep neural networks really learning relevant features?
Kereliuk, C. M., Larsen, J. & Sturm, B. L. 2014
Publication: Research › Paper – Annual report year: 2015

A regularized matrix factorization approach to induce structured sparse-low-rank solutions in the EEG inverse problem
Publication: Research - peer-review › Journal article – Annual report year: 2014

Bayesian Correlated Component Analysis for inference of joint EEG activation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Bayesian Inference for Structured Spike and Slab Priors
Andersen, M. R., Winther, O. & Hansen, L. K. 2014
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Bone Signaling in Middle Ear Development: A Genome-Wide Differential Expression Analysis
Nielsen, M. C., Bertelsen, T. M., Friis, M., Winther, O., Friis-Hansen, L., Cayé-Thomasen, P. & Sørensen, M. S. 2014
In : Anatomical Record. 297, 12, p. 2349-2355
Publication: Research - peer-review › Journal article – Annual report year: 2014

Brain Network Modelling
Andersen, K. W. & Hansen, L. K. 2014
Publication: Research › Ph.D. thesis – Annual report year: 2014

Brede Tools and Federating Online Neuroinformatics Databases
Nielsen, F. Å. 2014
In : NeuroInformatics. 12, 1, p. 27-37
Publication: Research - peer-review › Journal article – Annual report year: 2014

Characterization of the time-evolving bending profile of micro-cantilevers
Community structure in resting state complex networks
Publication: Research - peer-review › Poster – Annual report year: 2014

Compact Web browsing profiles for click-through rate prediction
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Data-driven Vessel Performance Monitoring
Publication: Research › Ph.D. thesis – Annual report year: 2015

Denoising by semi-supervised kernel PCA preimaging
Publication: Research - peer-review › Journal article – Annual report year: 2014

Differentiating emotional responses to images and words
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Disasters in personal informatics: The unpublished stories of failure and lessons learned
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Discovering hierarchical structure in normal relational data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Down-Regulation of miR-129-5p and the let-7 Family in Neuroendocrine Tumors and Metastases Leads to Up-Regulation of Their Targets Egr1, G3bp1, Hmga2 and Bach1
Publication: Research - peer-review › Journal article – Annual report year: 2014

EEG Source Reconstruction using Sparse Basis Function Representations
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Efficient inference of overlapping communities in complex networks
Publication: Research › Journal article – Annual report year: 2014

Electrophysiological assessment of audiovisual integration in speech perception
Publication: Research › Ph.D. thesis – Annual report year: 2014
Emotional responses as independent components in EEG
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Errata to "Bayesian community detection": [Neural computation, sept. 2012, vol. 24, no. 9:2434-2456]
Publication: Research - peer-review › Journal article – Annual report year: 2014

Fast sampling from a Hidden Markov Model posterior for large data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

FindZebra - the search engine for difficult medical cases
Winther, O., Svenstrup, D. T., Henningsen, P. P., Kristiásson, R. & Jørgensen, H. L. 2014 In : Orphanet Journal of Rare Diseases. 9, 1, p. 822
Publication: Research - peer-review › Journal article – Annual report year: 2015

Four Data Visualization Heuristics to Facilitate Reflection in Personal Informatics
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Frontal alpha oscillations distinguish leaders from followers: Multivariate decoding of mutually interacting brains
Publication: Research - peer-review › Journal article – Annual report year: 2014

Grassmann Averages for Scalable Robust PCA
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Guest Editorial: Machine Learning for Signal Processing
Publication: Research › Editorial – Annual report year: 2014

Imaging based agglutination measurement of magnetic micro-particles on a Lab-on-a-Disc platform
Publication: Research - peer-review › Poster – Annual report year: 2014

Improving spectral resolution of SERS using moving AG nanopillar substrate
Publication: Research - peer-review › Poster – Annual report year: 2014

Improving the robustness of Surface Enhanced Raman Spectroscopy based sensors by Bayesian Non-negative Matrix Factorization
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014
Multivariate decoding of mutually interacting brains reveals complementary neural mechanisms in leaders and followers
Konvalinka, I. 2014
Publication: Research › Conference abstract for conference – Annual report year: 2014

Non-linear calibration models for near infrared spectroscopy
Publication: Research - peer-review › Journal article – Annual report year: 2013

Non-negative Tensor Factorization with missing data for the modeling of gene expressions in the Human Brain
Publication: Research - peer-review › Journal article – Annual report year: 2013

Non-parametric Bayesian Clustering of Structural Whole Brain Connectivity in Full Image Resolution
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Non-parametric Bayesian graph models reveal community structure in resting state fMRI
Publication: Research - peer-review › Journal article – Annual report year: 2014

On the number of spanning trees in random regular graphs
Publication: Research - peer-review › Journal article – Annual report year: 2014

På dynamikken fik han skik - og Abelprisen til Sinai gik
Publication: Research › Journal article – Annual report year: 2014

Probabilistic shortest path tractography in DTI using Gaussian Process ODE solvers
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Ranking Entities in Networks via Lefschetz Duality
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

S-AMP: Approximate Message Passing for General Matrix Ensembles
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Semi-supervised eigenvectors for large-scale locally-biased learning
Publication: Research - peer-review › Journal article – Annual report year: 2015
Smartphones as pocketable labs: Visions for mobile brain imaging and neurofeedback
Publication: Research - peer-review › Journal article – Annual report year: 2013

Supplementary Notes for Graph Theory 1: Including solutions for selected weekly exercises
Publication: Research - peer-review › Book – Annual report year: 2014

The Fire-Walker’s High: Affect and Physiological Responses in an Extreme Collective Ritual
Publication: Research - peer-review › Journal article – Annual report year: 2014

The impact of hazardous industrial facilities on housing prices: A comparison of parametric and semiparametric hedonic price models
Publication: Research - peer-review › Journal article – Annual report year: 2014

The Long Tail Issue in Large Scale Deployment of Personal Informatics
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

The role of simulation in designing for universal access
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

The Smartphone Brain Scanner: A Portable Real-Time Neuroimaging System
Publication: Research - peer-review › Journal article – Annual report year: 2014

The Strength of Friendship Ties in Proximity Sensor Data
Sekara, V. & Jørgensen, S. L. 2014 In : P Lo S One. 9, 7, 8 p., e100915
Publication: Research - peer-review › Journal article – Annual report year: 2014

The Strength of the Strongest Ties in Collaborative Problem Solving
Publication: Research - peer-review › Journal article – Annual report year: 2014

Tumor antigens as proteogenomic biomarkers in invasive ductal carcinomas
Publication: Research - peer-review › Journal article – Annual report year: 2015

Validity of covariance models for the analysis of geographical variation
Publication: Research - peer-review › Journal article – Annual report year: 2014

Visualizing multi-channel networks
Visualizing QS Data Using Time Spirals
Larsen, J. E., Cuttone, A. & Jørgensen, S. L. 2014

Wikipedia in the eyes of its beholders: A systematic review of scholarly research on wikipedia readers and readership
Okoli, C., Mehdì, M., Mesgari, M., Nielsen, F. Á. & Lanamäki, A. 2014 In : Journal of the Association for Information Science and Technology. 65, 12, p. 2381-2403

Your heart might give away your emotions

3D gender recognition using cognitive modeling

Abelpris til Pierre Deligne for banebrydende matematisk rapsodi om de algebraiske ligninger geometri

A Hierarchical Bayesian M/EEG Imaging Method Correcting for Incomplete Spatio-Temporal Priors

A Mobile Personal Informatics System with Interactive Visualizations of Mobility and Social Interactions

Analysis of Conceptualization Patterns across Groups of People

Analysis of Subjective Conceptualizations Towards Collective Conceptual Modelling

A Neural Marker of Perceptual Consciousness in Infants

Archetypal analysis of diverse Pseudomonas aeruginosa transcriptomes reveals adaptation in cystic fibrosis airways
Expansion of the Variational Garrote to a Multiple Measurement Vectors Model
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

FindZebra: A search engine for rare diseases
Publication: Research - peer-review › Journal article – Annual report year: 2013

Hearing Aid Personalization
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

How about a Bayesian M/EEG imaging method correcting for incomplete spatio-temporal priors
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2013

How low can you go: Spatial frequency sensitivity in a patient with pure alexia
Starrfelt, R., Nielsen, S., Habekost, T. & Andersen, T. 2013 In : Brain and Language. 126, 2, p. 188-192
Publication: Research - peer-review › Journal article – Annual report year: 2013

Images from a jointly-arousing collective ritual reveal affective polarization
Publication: Research - peer-review › Journal article – Annual report year: 2014

Kernel Methods for Machine Learning with Life Science Applications
Publication: Research › Ph.D. thesis – Annual report year: 2013

Publication: Research - peer-review › Journal article – Annual report year: 2013

Large scale inference in the Infinite Relational Model: Gibbs sampling is not enough
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Large-scale Machine Learning in High-dimensional Datasets
Publication: Research › Ph.D. thesis – Annual report year: 2013

Learning the solution sparsity of an ill-posed linear inverse problem with the Variational Garrote
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013
Les risques industriels et le prix des logements
Publication: Research - peer-review › Journal article – Annual report year: 2014

Measuring Personalization of Web Search
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Mobile real-time EEG imaging Bayesian inference with sparse, temporally smooth source priors
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Modeling Temporal Evolution and Multiscale Structure in Networks
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Modelling auditory attention: Insights from the Theory of Visual Attention (TVA)
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2013

Mouth reversal extinguishes mismatch negativity induced by the McGurk illusion
Eskelund, K. & Andersen, T. 2013 In : Multisensory Research. 26, 0, p. 133–134
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Multiple sclerosis Impairs regional functional connectivity in the cerebellum
Publication: Research - peer-review › Journal article – Annual report year: 2013

Nanomechanical recognition of prognostic biomarker suPAR with DVD-ROM optical technology
Publication: Research - peer-review › Journal article – Annual report year: 2013

Nonparametric Bayesian Modeling of Complex Networks: An Introduction
Publication: Research - peer-review › Journal article – Annual report year: 2013

Participatory Bluetooth Sensing: A Method for Acquiring Spatio-Temporal Data about Participant Mobility and Interactions at Large Scale Events
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Personal Informatics in the Wild: Hacking Habits for Health & Happiness
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Personalized Audio Systems - a Bayesian Approach
Perturbative corrections for approximate inference in gaussian latent variable models
Publication: Research - peer-review › Journal article – Annual report year: 2013

Pointing to oneself: active versus passive proprioception revisited and implications for internal models of motor system function
Publication: Research - peer-review › Journal article – Annual report year: 2013

Population Structure
Publication: Research › Report – Annual report year: 2013

PorkCAD: Case study of the design of a pork product prototyper
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Predictive Modelling of Expressed Emotions in Music Using Pairwise Comparisons
Madsen, J., Jensen, B. S. & Larsen, J. 2013 In : Lecture Notes in Computer Science. 7900, p. 253-277
Publication: Research - peer-review › Journal article – Annual report year: 2013

Process optimization of ultrasonic spray coating of polymer films
Publication: Research - peer-review › Journal article – Annual report year: 2013

QS Spiral: Visualizing Periodic Quantified Self Data
Publication: Research - peer-review › Journal article – Annual report year: 2013

Sequential collaboration network with sentiment coloring
Nielsen, F. Á. 2013
Publication: Research › Conference abstract for conference – Annual report year: 2015

Sparse Source EEG Imaging with the Variational Garrote
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Spatio temporal media components for neurofeedback
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Surface-Enhanced Raman Spectroscopy Based Quantitative Bioassay on Aptamer-Functionalized Nanopillars Using Large-Area Raman Mapping
Publication: Research - peer-review › Journal article – Annual report year: 2013

Towards a universal representation for audio information retrieval and analysis
Unsupervised knowledge structuring Application of Infinite Relational Models to the FCA visualization

Variance inflation in high dimensional Support Vector Machines

How Low Can You Go: Spatial Frequency Sensitivity in Pure Alexia
Starrfelt, R., Nielsen, S., Habekost, T. & Andersen, T. 2012

Integration of top-down and bottom-up information for audio organization and retrieval

Joint Modelling of Structural and Functional Brain Networks

Link prediction in weighted networks

Multi-colorimetric sensor array for detection of illegal materials

Semi-supervised Eigenvectors for Locally-biased Learning

String matching with variable length gaps

Demonstration: A smartphone 3D functional brain scanner

Publication: Research - peer-review › Conference article – Annual report year: 2013

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Publication: Research - peer-review › Journal article – Annual report year: 2013

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Publication: Research - peer-review › Ph.D. thesis – Annual report year: 2013

Publication: Research - peer-review › Paper – Annual report year: 2012

Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Publication: Research - peer-review › Journal article – Annual report year: 2012

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2011