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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
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
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
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
Publication: Research - peer-review › Poster – Annual report year: 2014

Community structure in resting state complex networks
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Compact Web browsing profiles for click-through rate prediction
Publication: Research - peer-review › Article in proceedings – 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, Hmg2 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

Inferring Human Mobility from Sparse Low Accuracy Mobile Sensing Data
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Infinite-degree-corrected stochastic block model
Publication: Research - peer-review › Journal article – Annual report year: 2014

In the twinkling of an eye: synchronization of EEG and eye tracking based on blink signatures
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Joint Iterative Carrier Synchronization and Signal Detection Employing Expectation Maximization
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Measuring Large-Scale Social Networks with High Resolution
Publication: Research - peer-review › Journal article – Annual report year: 2014

Metrics and Evaluation Models for Accessible Television
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014
Metrics for Probabilistic Geometries
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

MicroRNA expression analysis and Multiplex ligation-dependent probe amplification in metastatic and non-metastatic uveal melanoma
Publication: Research - peer-review › Journal article – Annual report year: 2014

Modeling Temporal Structure in Music for Emotion Prediction using Pairwise Comparisons
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Model Selection in Data Analysis Competitions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Model Transport: Towards Scalable Transfer Learning on Manifolds
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 › Article in proceedings – Annual report year: 2014

Nonparametric 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

Nonparametric statistical structuring of knowledge systems using binary feature matches
Publication: Research - peer-review › Article in proceedings – 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 Abelpriisen til Sinal 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
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
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: 2014

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

Visualizing multi-channel networks
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Visualizing QS Data Using Time Spirals
Larsen, J. E., Cuttone, A. & Jørgensen, S. L. 2014
Publication: Research - peer-review › Poster – Annual report year: 2014

Wikipedia in the eyes of its beholders: A systematic review of scholarly research on wikipedia readers and readership
Okoli, C., Mehi, M., Mesgari, M., Nielsen, F. Á. & Lamamiki, A. 2014 In : Journal of the Association for Information Science and Technology. 65, 12, p. 2381-2403
Publication: Research - peer-review › Journal article – Annual report year: 2014

Your heart might give away your emotions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

3D gender recognition using cognitive modeling
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Abelpris til Pierre Deligne for banebrydende matematisk rapsodi om de algebraiske ligningers geometri
Publication: Research › Journal article – Annual report year: 2014

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

Analysis of Conceptualization Patterns across Groups of People
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Analysis of Subjective Conceptualizations Towards Collective Conceptual Modelling
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

A Neural Marker of Perceptual Consciousness in Infants
Publication: Research - peer-review › Journal article – Annual report year: 2013

Archetypal analysis of diverse Pseudomonas aeruginosa transcriptomes reveals adaptation in cystic fibrosis airways
Publication: Research - peer-review › Journal article – Annual report year: 2013

Assessing Miniaturized Sensor Performance using Supervised Learning, with Application to Drug and Explosive Detection
Publication: Research › Ph.D. thesis – Annual report year: 2013

Autobiographical Memory in a Fire-Walking Ritual
Publication: Research - peer-review › Journal article – Annual report year: 2014

Believing versus interacting: Behavioural and neural mechanisms underlying interpersonal coordination
Konvalinka, I., Bauer, M., Kilner, J., Roepstorff, A. & Frith, C. D. 2013
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Bounded Gaussian process regression
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Comparing Structural Brain Connectivity by the Infinite Relational Model
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Complementary coordination strategies in a joint Fitts' reciprocal aiming task
Konvalinka, I., Skews, L., Michael, J. & Skews, J. C. 2013
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Crowds, Bluetooth and Rock’n’Roll: Understanding Music Festival Participant Behavior
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013
Crowds, Bluetooth, and Rock’n’Roll: Understanding Music Festival Participant Behavior
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Dimensionality reduction for click-through rate prediction: Dense versus sparse representation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

EEG Sequence Imaging: A Markov Prior for the Variational Garrote
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Efficient individualization of hearing aid processed sound
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

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

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
Sequential collaboration network with sentiment coloring
Nielsen, F. Å. 2013

Sparse Source EEG Imaging with the Variational Garrote

Spatio temporal media components for neurofeedback

Surface-Enhanced Raman Spectroscopy Based Quantitative Bioassay on Aptamer-Functionalized Nanopillars Using Large-Area Raman Mapping

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
Abrahamsen, T. J. & Hansen, L. K. 2013 In : Pattern Recognition Letters. 34, 16, p. 2173-2180

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

Semi-supervised Eigenvectors for Locally-biased Learning
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

String matching with variable length gaps
Publication: Research - peer-review › Journal article – Annual report year: 2012

Demonstration: A smartphone 3D functional brain scanner
Publication: Research › Conference abstract for conference – Annual report year: 2011

Projects:

Reducing the rate and duration of re-admission among patients with unipolar and bipolar disorder using smartphone-based monitoring and treatment
Bardram, J. E. & Winther, O.
01/03/2016 → 01/09/2019
Project

Computational methods for wind-energy forecasting
Guillot, G., Pinson, P. & Bezzer, E.
01/02/2015 → 29/02/2016
Project

Non-Linear Temporal Machine Learning Models for Conditioning Monitoring in Large-Scale Solar Energy Systems
Maaløe, L. & Winther, O.
15/12/2014 → 15/12/2017
Project

Benchmarking and extending models of real estate price prediction, under financial regulation requirements
Guillot, G., Katossky, A., Thygesen, U. H. & Dalhoff, J.
01/09/2014 → 01/10/2017
Project

Computational Landscape Genomics
Guillot, G., Storfer, A., Poss, M. & Antolin, M.
01/10/2013 → …
Project

Population structure
Guillot, G. & Orlando, L.
01/07/2013 → …
Project

Deep Belief Nets for Topic Modeling
Maaløe, L. & Winther, O.
01/02/2013 → 01/03/2014
Project
Activities:

Integration of Nanopillar SERS Substrates in a Microfluidic Platform for Analyte Separation and Quantitative Sensing
Durucan, O. (Guest lecturer), Morelli, L. (Guest lecturer), Wu, K. (Guest lecturer), Viehrig, M. (Guest lecturer), Ilchenko, O. (Guest lecturer), Zor, K. (Guest lecturer), Matteucci, M. (Guest lecturer), Alstrøm, T. S. (Guest lecturer), Rindzевичius, T. (Guest lecturer), Boisen, A. (Guest lecturer)
11 Jun 2017 → 17 Jun 2017
Activity: Talks and presentations › Conference presentations

WikiCite 2016
Nielsen, F. Å. (Participant)
25 May 2016 → 26 May 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

An Introduction to Multisensory Perception
Andersen, T. (Lecturer)
8 Sep 2015
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

ICES
Guillot, G. (Participant)
9 Jun 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Member of PhD committee (External organisation)
Guillot, G. (Participant)
May 2015
Activity: Membership › Membership in review committee

Model and inference algorithm to combine genetic, phenotypic and geographic information
Guillot, G. (Invited speaker)
29 Apr 2015
Activity: Talks and presentations › Conference presentations

Combining text mining and coordinate-based meta-analysis
Nielsen, F. Å. (Invited speaker)
21 Apr 2015
Activity: Talks and presentations › Conference presentations

Models and Modes of Audiovisual integration
Andersen, T. (Lecturer)
18 Feb 2015
Activity: Talks and presentations › Conference presentations

10th Danish-French workshop in Spatial Statistics
Guillot, G. (Invited speaker)
2014
Activity: Talks and presentations › Conference presentations

Assessment committee PhD Scholarships, DTU compute (External organisation)
Guillot, G. (Participant)
10 Nov 2014
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar
Modeling categorial audiovisual perception: pitfalls and solutions
Andersen, T. (Lecturer)
7 Nov 2014
Activity: Talks and presentations › Conference presentations

Workshop on effects of global change on species’ range fluctuations using intra-specific genetic variation in both phenotypic and molecular data
Guillot, G. (Invited speaker)
Activity: Talks and presentations › Conference presentations

An Introduction to Multisensory Perception
Andersen, T. (Lecturer)
2 Sep 2014
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Early Maximum-Likelihood Estimation as a model of audiovisual integration of speech
Andersen, T. (Lecturer)
11 Jun 2014
Activity: Talks and presentations › Conference presentations

Lecture
Guillot, G. (Lecturer)
Apr 2014
Activity: Talks and presentations › Conference presentations

Seminar of the Department of Biology
Guillot, G. (Participant)
Apr 2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

17th International Conference on Artificial Intelligence and Statistics
Hansen, S. T. (Participant)
22 Apr 2014 → 25 Apr 2014
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Computational Models of Attention and Perception
Andersen, T. (Lecturer)
28 Jan 2014
Activity: Talks and presentations › Conference presentations

Journal of the Royal Statistical Society (Journal)
Guillot, G. (Editor)
1 Jan 2014 → 31 Dec 2014
Activity: Research › Journal editor

Member of the Editorial Board Population Ecology (External organisation)
Guillot, G. (Participant)
1 Jan 2014 → 31 Dec 2014
Activity: Membership › Board duties in companies, associations, or public organisations

Arieties of cross-modal interactions and multi-sensory integration effects: Invited lecture at Otto-von-Guericke-Universität Magdeburg, Germany
Andersen, T. (Lecturer)
29 Nov 2013
Activity: Talks and presentations › Conference presentations
An Introduction to Multisensory Perception
Andersen, T. (Guest lecturer)
9 Sep 2013
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

Estimating the phylogenetic history for two related populations A Hidden Markov Model approach to finding phylogenetic trees: A Hidden Markov Model approach to finding phylogenetic trees
Guillot, G. (Internal examiner)
Jul 2013
Activity: Examinations and supervision › Internal examination

Journal of the Royal Statistical Society, series A (Journal)
Guillot, G. (Editor)
2012 → 2014
Activity: Research › Journal editor

Prizes:

Molecular Ecology best reviewer 2013
Gilles Guillot (Recipient), Jan 2013
Prize: Prizes, scholarships, distinctions

Press clippings:

Banksy in Boston? Nope, just bots in Copenhagen
Sune Lehmann Jørgensen
04/12/2013
1 media contribution
Press / Media