A Diagnostic and Predictive Framework for Wind Turbine Drive Train Monitoring. / Bach-Andersen, Martin; Winther, Ole (Main supervisor); Rømer-Odgaard, Bo (Supervisor). Technical University of Denmark (DTU), 2018. 111 p. (DTU Compute PHD-2017, Vol. 449).
PUBLICATION: Research › Ph.D. thesis – Annual report year: 2018

Altered auditory processing and effective connectivity in 22q11.2 deletion syndrome. / Larsen, Kit Melissa; Marup, Morten; Birknow, Michelle Rosgaard; Fischer, Elvira; Hulme, Oliver; Vangkilde, Anders; Schmock, Henriette; Baaré, William Frans Christiaan; Didriksen, Michael; Olsen, Line; Werge, Thomas; Siebner, Hartwig R.; Garrido, Marta I.
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. / Lenzi, Amanda; Pinson, Pierre; Steinsland, Ingelin.
In: Environmetrics, 2018.
PUBLICATION: Research - peer-review › Journal article – Annual report year: 2018

Deep learning for automated drivetrain fault detection. / Bach-Andersen, Martin; Rømer-Odgaard, Bo; Winther, Ole.
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, Sebastiano; Jørgensen, Sune Lehmann; Maier, Anja.
PUBLICATION: Research - peer-review › Journal article – Annual report year: 2018

Functional Connectivity using a Wishart Mixture Model. / Nielsen, Søren Føns Vind; Madsen, Kristoffer Hougaard; Schmidt, Mikkel Nørgaard; Marup, Morten.
PUBLICATION: Research - peer-review › Article in proceedings – Annual report year: 2018

Optimizing targeted vaccination across cyber-physical networks: an empirically based mathematical simulation study. / Mones, Enys; Stopczynski, Arkadiusz; Pentland, Alex ‘Sandy’; Hupert, Nathaniel; Lehmann, Sune.
PUBLICATION: Research - peer-review › Journal article – Annual report year: 2018

Predictive assessment of models for dynamic functional connectivity. / Nielsen, Søren Føns Vind; Schmidt, Mikkel Nørgaard; Madsen, Kristoffer Hougaard; Marup, Morten.
PUBLICATION: Research - peer-review › Journal article – Annual report year: 2017

Task-Modulated Cortical Representations of Natural Sound Source Categories. / Hjortkjær, Jens; Kassuba, Tanja; Madsen, Kristoffer Hougaard; Skov, Martin; Siebner, Hartwig R.
PUBLICATION: Research - peer-review › Journal article – Annual report year: 2018

Understanding predictability and exploration in human mobility. / Cuttone, Andrea; Jørgensen, Sune Lehmann; González, Marta C.
PUBLICATION: Research - peer-review › Journal article – Annual report year: 2018

How to target inter-regional phase synchronization with dual-site Transcranial Alternating Current Stimulation. / Saturnino, Guilherme Bicalho; Madsen, Kristoffer Hougaard; Siebner, Hartwig Roman; Thielischer, Axel.
PUBLICATION: Research - peer-review › Journal article – Annual report year: 2017
New frontiers of quantified self 3: Exploring understudied categories of users. / Rapp, Amon; Cena, Federica; Kay, Judy; Kummerfeld, Bob; Hopfgartner, Frank; Plumbaum, Till; Larsen, Jakob Eg; Epstein, Daniel A.; Gouveia, Rúben.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Flexible non-linear predictive models for large-scale wind turbine diagnostics. / Bach-Andersen, Martin; Rømer-Odgaard, Bo; Winther, Ole.
Publication: Research - peer-review › Journal article – Annual report year: 2017

22q11.2 Deletion Syndrome Is Associated With Impaired Auditory Steady-State Gamma Response. / Larsen, Kit Melissa; Pellegrino, Giovanni; Birnkn, Michelle Rosgaard; Kjaer, Trine Nørgaard; Baaré, William Frans Christiaan; Didriksen, Michael; Olsen, Line; Werge, Thomas; Merup, Morten; Siebner, Hartwig Roman.
Publication: Research - peer-review › Journal article – Annual report year: 2017

Active Self-Tracking of Subjective Experience with a One-Button Wearable: A Case Study in Military PTSD. / Larsen, Jakob Eg; Eskelund, Kasper ; Christiansen, Thomas Blomseth.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Active vibration-based structural health monitoring system for wind turbine blade: Demonstration on an operating Vestas V27 wind turbine. / Tcherniak, Dmitri; Mølgaard, Lasse Lohilahti.
Publication: Research - peer-review › Journal article – Annual report year: 2017

A deep learning approach to adherence detection for type 2 diabetics. / Mohebbi, Ali; Aradöttir, Tinna Björk; Johansen, Alexander Rosenberg; Bengtsson, Henrik; Fraccaro, Marco; Merup, Morten.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

A Disentangled Recognition and Nonlinear Dynamics Model for Unsupervised Learning. / Fraccaro, Marco; Kamrønn, Simon Due; Paquet, Ulrich; Winther, Ole.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Alterations in the brain's connectome during recovery from severe traumatic brain injury: Protocol for a longitudinal prospective study. / Conde, Virginia; Andreasen, Sara Hesby; Petersen, Tue Hvass; Larsen, Karen Busted; Madsen, Karine; Andersen, Kasper Winther; Akopian, Irina; Madsen, Kristoffer Hougaard; Hansen, Christian Pilebæk; Poulsen, Ingrid; Kammersgaard, Lars Peter; Siebner, Hartwig Roman.
Publication: Research - peer-review › Journal article – Annual report year: 2017

An introduction to Deep learning on biological sequence data - Examples and solutions. / Jurtz, Vanessa Isabell; Johansen, Alexander Rosenberg; Nielsen, Morten; Almagro Armenteros, Jose Juan; Nielsen, Henrik; Kaae Sønderby, Casper; Winther, Ole; Kaae Sønderby, Søren.
Publication: Research - peer-review › Journal article – Annual report year: 2017

A pseudo-Voigt component model for high-resolution recovery of constituent spectra in Raman spectroscopy. / Alstrøm, Tommy Sonne; Schmidt, Mikkel Nørregaard; Rindzevicius, Tomas; Boisen, Anja; Larsen, Jan.
Bayesian inference for spatio-temporal spike-and-slab priors. / Andersen, Michael Riis; Vehtari, Aki; Winther, Ole; Hansen, Lars Kai.

Bayesian Modelling of Functional Whole Brain Connectivity. / Røge, Rasmus; Mørup, Morten (Main supervisor); Schmidt, Mikkel Nørgaard (Supervisor).
Publication: Research > Ph.D. thesis – Annual report year: 2017

Bayesian state prediction of wind turbine bearing failure. / Herp, Jürgen; Ramezani, Mohammad H.; Bach-Andersen, Martin; Pedersen, Niels Lovmand; Nadimi, Esmaeil S.
Publication: Research > peer-review > Journal article – Annual report year: 2017

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. / Stanislaus, S.; Faurholt-Jepsen, M.; Vinberg, M.; Winther, Ole; Frost, Michael Grynnerup; Bardram, Jakob Eyvind; Kessing, L.

Class attendance, peer similarity, and academic performance in a large field study. / Kassarnig, Valentin; Bjerre-Nielsen, Andreas; Mones, Enys; Lehmann, Sune; Lassen, David Dreyer.

Contact activity and dynamics of the social core. / Mones, Enys; Stopczynski, Arkadiusz; Jørgensen, Sune Lehmann.

DeepLoc: prediction of protein subcellular localization using deep learning. / Almagro Armenteros, Jose Juan; Sønderby, Casper Kaae; Senderby, Søren Kaae; Nielsen, Henrik; Winther, Ole.

Deep recurrent conditional random field network for protein secondary prediction. / Johansen, Alexander Rosenberg; Senderby, Søren Kaae; Sønderby, Casper Kaae; Winther, Ole.
Difference-of-Convex optimization for variational kl-corrected inference in dirichlet process mixtures. / Bonnevie, Rasmus; Schmidt, Mikkel Nørgaard; Mørup, Morten.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

EEG Based Inference of Spatio-Temporal Brain Dynamics. / Hansen, Sofie Therese; Hansen, Lars Kai (Main supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2017

EEG in the classroom: Synchronised neural recordings during video presentation. / Poulsen, Andreas Trier; Kamronn, Simon Due; Dmochowski, Jacek; Parra, Lucas C.; Hansen, Lars Kai.
Publication: Research - peer-review › Journal article – Annual report year: 2017

EEG source imaging assists decoding in a face recognition task. / Andersen, Rasmus S.; Eliassen, Anders U.; Pedersen, Nicolai; Andersen, Michael Riis; Hansen, Sofie Therese; Hansen, Lars Kai.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Effective connectivity and gamma oscillations in a group at risk of psychosis. / Larsen, Kit Melissa; Mørup, Morten (Supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2017

Electrophysiological evidence for differences between fusion and combination illusions in audiovisual speech perception. / Baart, Martijn; Lindborg, Alma Cornelia; Andersen, Tobias S.
Publication: Research - peer-review › Journal article – Annual report year: 2017

End-to-end information extraction without token-level supervision. / Palm, Rasmus Berg; Hovy, Dirk; Laws, Florian; Winther, Ole.
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. / Bækgaard, Per; Petersen, Michael Kai (Supervisor); Larsen, Jakob Eg (Main supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2017

Evidence of complex contagion of information in social media: An experiment using Twitter bots. / Mønsted, Bjarke Mørch; Sapiezynski, Piotr; Ferrara, Emilio; Jørgensen, Sune Lehmann.
Publication: Research - peer-review › Journal article – Annual report year: 2017

Examination of heterogeneous societies: Identifying subpopulations by contrasting cultures. / Glückstad, Fumiko Kano; Schmidt, Mikkel Nørgaard; Mørup, Morten.
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. / Mehdi, Mohamad; Okoli, Chitu; Mesgari, Mostafa; Nielsen, Finn Arup; Lanamäki, Arto.
Publication: Research - peer-review › Journal article – Annual report year: 2016
FindZebra - using machine learning to aid diagnosis of rare diseases, / Svenstrup, Dan Tito; Winther, Ole (Main supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2017

Fostering Bilateral Patient-Clinician Engagement in Active Self-Tracking of Subjective Experience, / Larsen, Jakob Eg; Christiansen, Thomas Blomseth; Eskelund, Kasper .
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

From concept to in vivo testing: Microcontainers for oral drug delivery, / Mazzoni, Chiara; Tentor, Fabio; Andersen, Sophie Strindberg; Nielsen, Line Hagner; Keller, Stephan Sylvest; Alstrøm, Tommy Sonne; Gundlach, Carsten; Müllertz, Anette; Marizza, Paolo; Boisen, Anja.
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, / Sapiezynski, Piotr; Jørgensen, Sune Lehmann (Main supervisor); Hansen, Lars Kai (Supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2017

Gaussian process based Independent analysis for temporal source separation in fMRI, / Hald, Ditte Høvenhoff; Henao, Ricardo; Winther, Ole.
Publication: Research - peer-review › Journal article – Annual report year: 2017

Generative Temporal Modelling of Neuroimaging - Decomposition and Nonparametric Testing, / Hald, Ditte Høvenhoff; Winther, Ole (Main supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2017

Gradient distortions in EEG provide motion tracking during simultaneous EEG-fMRI, / Laustsen, Malte; Andersen, Mads; Madsen, Kristoffer Hougaard; Hanson, Lars G . .
2017. Abstract from ISMRM Workshop on Motion Correction in MRI & MRS, Cape Town, South Africa.
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Hearables in hearing care: discovering usage patterns through IoT devices, / Johansen, Benjamin; Flet-Berliac, Yannis Paul Raymond ; Korzepa, Maciej Jan; Petersen, Michael Kai; Larsen, Jakob Eg.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

High temperature SU-8 pyrolysis for fabrication of carbon electrodes, / Hassan, Yasmin Mohamed; Caviglia, Claudia; Hemanth, Suhith; Mackenzie, David; Alstrøm, Tommy Sonne; Petersen, Dirch Hjorth; Keller, Stephan Sylvest.
Publication: Research - peer-review › Journal article – Annual report year: 2017

Improved detection of chemical substances from colorimetric sensor data using probabilistic machine learning, / Mølgaard, Lasse Lohilahti; Buus, Ole Thomsen; Larsen, Jan; Babamoradi, Hamid; Thygesen, Ida Lygaard; Laustsen, Milan; Munk, Jens Kristian; Dossi, Eleftheria ; O’Keeffe, Caroline; Lässig, Lina; Tatlow, Sol; Sandström, Lars; Jakobsen, Mogens Havsteen.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017
Inferring human intentions from the brain data. / Stanek, Konrad; Winther, Ole (Main supervisor); Hansen, Lars Kai (Supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2017

Inferring Person-to-person Proximity Using WiFi Signals. / Sapiezynski, Piotr; Stopczynski, Arkadiusz; Wind, David Kofoed; Leskovec, Jure; Jørgensen, Sune Lehmann.
Publication: Research › peer-review › Journal article – Annual report year: 2017

Infinite von Mises-Fisher Mixture Modeling of Whole Brain fMRI Data. / Røge, Rasmus; Madsen, Kristoffer Hougaard; Schmidt, Mikkel Nørgaard; Mørup, Morten.
Publication: Research › peer-review › Journal article – Annual report year: 2017

Large Scale Computing for the Modelling of Whole Brain Connectivity. / Albers, Kristoffer Jon; Schmidt, Mikkel Nørgaard (Main supervisor); Mørup, Morten (Supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2017

Modeling dynamic functional connectivity using a wishart mixture model. / Nielsen, Søren Fans Vind; Madsen, Kristoffer Hougaard; Schmidt, Mikkel Nørgaard; Mørup, Morten.
Publication: Research › peer-review › Article in proceedings – Annual report year: 2017

Modeling Structural Brain Connectivity. / Ambrosen, Karen Marie Sandø; Mørup, Morten (Main supervisor); Dyrby, Tim Bjørn (Supervisor); Schmidt, Mikkel Nørgaard (Supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2017

Modeling the Temporal Nature of Human Behavior for Demographics Prediction. / Felbo, Bjarke; Sundsøy, Pål; Pentland, Alex; Jørgensen, Sune Lehmann; Montjoye, Yves-Alexandre.
Machine Learning and Knowledge Discovery in Databases, ed. / Yasemin Altun; Kamalika Das; Taneli Mielikäinen; Donato Malerba; Jerzy Stefanowski; Jesse Read; Marinka Žitnik; Michelangelo Ceci; Sašo Džeroski. Vol. 10536 Springer, 2017, p. 140-152 (Lecture Notes in Computer Science).
Publication: Research › peer-review › Book chapter – Annual report year: 2017

Modelling Digital Media Objects. / Troelsgaard, Rasmus; Hansen, Lars Kai (Main supervisor); Larsen, Jan (Supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2017

Multi-scale spatio-temporal analysis of human mobility. / Alessandretti, Laura; Sapiezynski, Piotr; Jørgensen, Sune Lehmann; Baronchelli, Andrea.
Publication: Research › peer-review › Journal article – Annual report year: 2017

On the Keyhole Hypothesis: High Mutual Information between Ear and Scalp EEG. / Mikkelsen, Kaare B.; Kidmose, Preben; Hansen, Lars Kai.
Publication: Research › peer-review › Journal article – Annual report year: 2017

Open semantic analysis: The case of word level semantics in Danish. / Nielsen, Finn Årup; Hansen, Lars Kai.
Publication: Research › peer-review › Article in proceedings – Annual report year: 2017
Optimal allocation of reviewers for peer feedback. / Wind, David Kofoed; Jensen, Ulf Aslak; Jørgensen, Rasmus Malthe; Hansen, Simon Lind; Winther, Ole.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Phenomenological theory of collective decision-making. / Zafeiris, Anna; Koman, Zsombor; Mones, Enys; Vicsek, Tamas.
Publication: Research - peer-review › Journal article – Annual report year: 2017

Probabilistic models for structured sparsity. / Andersen, Michael Riis; Hansen, Lars Kai (Main supervisor); Winther, Ole (Supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2017

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

Quantifying functional connectivity in multi-subject fMRI data using component models. / Madsen, Kristoffer Hougaard; Churchill, Nathan William; Marup, Morten.
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, Maria; Frost, Mads; Martiny, Klaus; Tuxen, Nanna; Rosenberg, Nicole; Busk, Jonas; Winther, Ole; Bardram, Jakob Eyvind; Kessing, Lars Vedel.
Publication: Research - peer-review › Journal article – Annual report year: 2017

Rethinking Hearing Aid Fitting by Learning From Behavioral Patterns. / Johansen, Benjamin; Petersen, Michael Kai; Pontoppidan, Niels Henrik; Sandholm, Per; Larsen, Jakob Eg.
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. / Macoveanu, Julian; Baaré, William; Madsen, Kristoffer Hougaard; Kessing, Lars Vedel; Siebner, Hartwig Roman; Vinberg, Maj.
Publication: Research - peer-review › Journal article – Annual report year: 2017

Scalable group level probabilistic sparse factor analysis. / Hinrich, Jesper Løve; Nielsen, Søren Føns Vind; Riis, Nicolai Andre Brogaard; Eriksen, Casper; Frisøg, Jacob; Kristensen, Marco D. F.; Schmidt, Mikkel Nørgaard; Madsen, Kristoffer Hougaard; Marup, Morten.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Scholia and scientometrics with Wikidata. / Nielsen, Finn Årup; Mietchen, Daniel; Willighagen, Egon.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Scholia, Scientometrics and Wikidata. / Nielsen, Finn; Mietchen, Daniel; Willighagen, Egon.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017
Second-Order Assortative Mixing in Social Networks. / Zhou, Shi; Cox, Ingemar; Hansen, Lars Kai.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Semi-Supervised Generation with Cluster-aware Generative Models. / Maaløe, Lars; Fraccaro, Marco; Winther, Ole.
Publication: Research - peer-review › Journal article – Annual report year: 2017

SensibleSleep: A Bayesian Model for Learning Sleep Patterns from Smartphone Events. / Cuttone, Andrea; Bækgaard, Per; Sekara, Vedran; Jonsson, Håkan; Larsen, Jakob Eg; Jergensen, Sune Lehmann.
Publication: Research - peer-review › Journal article – Annual report year: 2017

Separable explanations of neural network decisions. / Rieger, Laura.
Publication: Research › Article in proceedings – Annual report year: 2017

Sequence Classification Using Third-Order Moments. / Troelsgaard, Rasmus; Hansen, Lars Kai.
Publication: Research › Journal article – Annual report year: 2017

Sparse Probabilistic Parallel Factor Analysis for the Modeling of PET and Task-fMRI Data. / Beliveau, Vincent; Papoutsakis, Georgios; Hinrich, Jesper Leve; Mørup, Morten.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

The Bipolar Illness Onset study: research protocol for the BIO cohort study. / Kessing, Lars Vedel; Munkholm, Klaus; Faurholt-Jepsen, Maria; Miskowiak, Kamilla Woznica; Nielsen, Lars Bo; Frikke-Schmidt, Ruth; Ekstrøm, Claus Thorn; Winther, Ole; Pedersen, Bente Klarlund; Poulsen, Henrik Enghusen; McIntyre, Roger S; Kapczinski, Flavio; Gattaz, Wagner F; Bardram, Jakob Eyvind; Frost, Mads; Mayora, Oscar; Knudsen, Gitte Moos; Phillips, Mary; Vinberg, Maj.
Publication: Research - peer-review › Journal article – Annual report year: 2017

The Choice of Prior in Bayesian Modeling of the Information Sampling Task. / Axelsen, Martin Christian; Jepsen, Jens Richardt Møllegaard; Bak, Nikolaj.
In: Biological Psychiatry, 2017.
Publication: Research › Letter – Annual report year: 2017

The circle equation over finite fields. / Aabrandt, Andreas; Hansen, Vagn Lundsgaard.
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. / Rosenkilde, Mads; Petersen, Martin Bæk; Gram, Anne Sofie; Quist, Jonas Salling; Winther, Jonas; Kamronn, Simon Due; Milling, Desirée Hornbæk; Larsen, Jakob Eg; Jespersen, Astrid Permile; Stalkeñcht, Bente.
Publication: Research - peer-review › Journal article – Annual report year: 2017

The missing link: Predicting connectomes from noisy and partially observed tract tracing data. / Hinne, Max; Meijers, Annet; Bakker, Rembrandt; Tiesinga, Paul H E; Mørup, Morten; van Gerven, Marcel A J.
Publication: Research - peer-review › Journal article – Annual report year: 2017
The role of gender in social network organization. / Psylla, Ioanna; Sapiezynski, Piotr; Mones, Enys; Jørgensen, Sune Lehmann.
Publication: Research - peer-review › Journal article – Annual report year: 2017

Transformations Based on Continuous Piecewise-Affine Velocity Fields. / Freifeld, Oren; Hauberg, Søren; Batmanghelich, Kayhan; Fisher, Jonn W.
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. / Bak, N.; Ebdrup, B.H.; Oranje, B; Fagerlund, B; Jensen, M H; Düring, S W; Nielsen, M Ø; Genthaløj, Birte Y.; Hansen, Lars Kai.
Publication: Research - peer-review › Journal article – Annual report year: 2017

Unraveling fermentation data – a Novozymes case study. / Baum, Andreas; Vermue, Laurent; Moiseyenko, Rayisa; Jørgensen, Thomas Martin; Devantier, R., 2017. Abstract from Recent Advances in Fermentation Technology (RAFT 2017), Florida, United States.
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Using data- and network science to reveal iterations and phase-transitions in the design process. / Piccolo, Sebastiano; Jørgensen, Sune Lehmann; Maier, Anja.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Using OR + AI to Predict the Optimal Production of Offshore Wind Parks: A Preliminary Study. / Fischetti, Martina; Fraccaro, Marco.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Whole-brain functional connectivity predicted by indirect structural connections. / Røge, Rasmus; Ambrosen, Karen Marie Sand; Albers, Kristoffer Jon; Eriksen, Casper Tabassum; Liptrot, Matthew George; Schmidt, Mikkel Nørgaard; Madsen, Kristoffer Hougaard; Mørup, Morten.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Why Do We Fall into Sync with Others? Interpersonal Synchronization and the Brain's Optimization Principle. / Koban, Leonie; Ramamoorthy, Anand; Konvalinka, Ivana.
Publication: Research - peer-review › Journal article – Annual report year: 2017

Working Memory Modulation of Frontoparietal Network Connectivity in First-Episode Schizophrenia. / Nielsen, Jesper Duerose; Madsen, Kristoffer Hougaard; Wang, Zheng; Liu, Zhening; Friston , Karl J.; Zhou, Yuan.
In: Cerebral Cortex, 2017.
Publication: Research - peer-review › Journal article – Annual report year: 2017

New frontiers of quantified self 2 : Going beyond numbers. / Rapp, Amon; Cena, Federica; Kay, Judy; Kummerfeld, Bob; Hopfgartner, Frank; Plumbaum, Till; Larsen, Jakob Eg; Epstein, Daniel A.; Gouveia, Ruben.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017
Aberrant neural signatures of decision-making: Pathological gamblers display cortico-striatal hypersensitivity to extreme gambles. / Gelskov, Sofie V.; Madsen, Kristoffer Hougaard; Ramsøy, Thomas Z.; Siebner, Hartwig R.
Publication: Research - peer-review › Journal article – Annual report year: 2016

Accurate continuous geographic assignment from low- to high-density SNP data. / Guillot, Gilles; Jónsson, Hákon; Hinge, Antoine; Manchih, Nabil; Orlando, Ludovic.
Publication: Research - peer-review › Journal article – Annual report year: 2015

Active vibration-based SHM system: demonstration on an operating Vestas V27 wind turbine. / Tcherniak, Dmitri; Melgaard, Lasse Lohilahti.
Publication: Research - peer-review › Conference article – Annual report year: 2016

Algebraic Varieties and System Design. / Aabrandt, Andreas; Træholt, Chresten (Supervisor); Hansen, Vagn Lundsgaard (Supervisor); Poulsen, Bjarne (Supervisor).
Technical University of Denmark, Department of Electrical Engineering, 2016. 123 p.
Publication: Research › Ph.D. thesis – Annual report year: 2017

A locally adaptive normal distribution. / Arvanitidis, Georgios; Hansen, Lars Kai; Hauberg, Søren.
Publication: Research - peer-review › Conference article – Annual report year: 2017

A Note on Powers in Finite Fields. / Aabrandt, Andreas; Hansen, Vagn Lundsgaard.
Publication: Research - peer-review › Journal article – Annual report year: 2016

Archetypal Analysis for Modeling Multisubject fMRI Data. / Hinrich, Jesper Leve; Bardenfleth, Sophia Elizabeth; Røge, Rasmus; Churchill, Nathan William; Madsen, Kristoffer Hougaard; Mørup, Morten.
Publication: Research - peer-review › Journal article – Annual report year: 2016

Assessing Levels of Attention Using Low Cost Eye Tracking. / Bækgaard, Per; Petersen, Michael Kai; Larsen, Jakob Eg.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Assessment of Rotationally-Invariant Clustering Using Streamlet Tractography. / Liptrot, Matthew George; Lauze, François.
Publication: Research - peer-review › Poster – Annual report year: 2016

Assessment of Rotationally-Invariant Clustering Using Streamlet Tractography. / Liptrot, Matthew George; Lauze, François.
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. / Opper, Manfred; Çakmak, Burak; Winther, Ole.
Publication: Research - peer-review › Journal article – Annual report year: 2016
Measure of Node Similarity in Multilayer Networks. / Møllgaard, Anders; Zettler, Ingo; Dammeyer, Jesper; Jensen, Mogens H.; Jørgensen, Sune Lehmann; Mathiesen, Joachim.
Publication: Research - peer-review › Journal article – Annual report year: 2016

Measuring Motion-Induced B0-Fluctuations in the Brain Using Field Probes. / Andersen, Mads; Hanson, Lars G.; Madsen, Kristoffer Hougaard; Wezel, Joep; Boer, Vincent; van der Velden, Tijl; van Osch, Matthias J.P.; Klomp, Dennis; Webb, Andrew G.; Versluis, Maarten J.
Publication: Research - peer-review › Journal article – Annual report year: 2016

Neural Markers of Responsiveness to the Environment in Human Sleep. / Andrillon, Thomas; Poulsen, Andreas Trier; Hansen, Lars Kai; LÉ Ger, Damien; Kouider, Sid.
Publication: Research - peer-review › Journal article – Annual report year: 2016

Obtaining Data on Hearing Experience Through Self-tracking. / Johansen, Benjamin; Petersen, Michael Kai; Larsen, Jakob Eg.
Association for Computing Machinery, 2016. p. 594-599.
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? / Feragen, Aasa; Hauberg, Søren.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Optimization of neural networks for time-domain simulation of mooring lines. / Christiansen, Niels Harbye; Voie, Per Erlend Torbergsen; Winther, Ole; Hågsberg, Jan Becker.
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, Ivana; Vuust, P.
In: Scientific Reports, Vol. 6, 38416, 2016, p. 38416.
Publication: Research - peer-review › Journal article – Annual report year: 2016

Predicting the emotions expressed in music. / Madsen, Jens; Larsen, Jan (Main supervisor); Hansen, Lars Kai (Supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2016

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

Prospective motion correction for MRI using EEG-equipment. / Andersen, Mads; Madsen, Kristoffer Hougaard; Hanson, Lars G.
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. / Dogonowski, Anne-Marie; Blinkenberg, Morten; Paulson, Olaf B.; Sellebjerg, Finn; Sørensen, Per Soelberg; Siebner, Hartwig R.; Madsen, Kristoffer Hougaard.
Resting-State Connectivity Predicts Levodopa-Induced Dyskinesias in Parkinson's Disease. / Herz, Damian M.; Haagensen, Brian N.; Nielsen, Silas H.; Madsen, Kristoffer Hougaard; Løkkegaard, Annemette; Siebner, Hartwig R.
In: Movement Disorders, Vol. 31, No. 4, 2016, p. 521-529.
Publication: Research - peer-review › Journal article – Annual report year: 2016

Retrieving Radio News Broadcasts in Danish: Accuracy and Categorization of Unrecognized Words. / Hertzum, Morten; Lund, Haakon; Troelsgaard, Rasmus.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Scalable Robust Principal Component Analysis Using Grassmann Averages. / Hauberg, Søren; Feragen, Aasa; Enficiaud, Raffi; Black, Michael J.
Publication: Research - peer-review › Journal article – Annual report year: 2016

Sequential neural models with stochastic layers. / Fraccaro, Marco; Sønderby, Søren Kaare; Paquet, Ulrich; Winther, Ole.
Publication: Research - peer-review › Journal article – Annual report year: 2017

Spatial Hearing with Incongruent Visual or Auditory Room Cues. / Gil Carvajal, Juan Camilo; Cubick, Jens; Santurette, Sébastien; Dau, Torsten.
Publication: Research - peer-review › Journal article – Annual report year: 2016

Spatio-temporal reconstruction of brain dynamics from EEG with a Markov prior. / Hansen, Sofie Therese; Hansen, Lars Kai.
Publication: Research - peer-review › Journal article – Annual report year: 2016

Strategies of Legitimacy Through Social Media: The Networked Strategy. / Castelló, Itziar; Etter, Michael; Nielsen, Finn Årup.
Publication: Research - peer-review › Journal article – Annual report year: 2015

Structural parcellation of the thalamus using shortest-path tractography. / Kasenburg, Niklas; Darkner, Sune; Hahn, Ute; Liptrot, Matthew George; Feragen, Aasa.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Supervised hub-detection for brain connectivity. / Kasenburg, Niklas; Liptrot, Matthew George; Reislev, Nina Linde; Garde, Ellen; Nielsen, Mads; Feragen, Aasa.
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. / Frøhling, Kasper Bayer; Alstrøm, Tommy Sønne; Bache, Michael; Schmidt, Michael Stenbæk; Schmidt, Mikkel Nørgaard; Larsen, Jan; Jakobsen, Mogens Havsteen; Boisen, Anja.
Publication: Research - peer-review › Journal article – Annual report year: 2016
Syncopation affects free body-movement in musical groove. / Witek, Maria A. G.; Popescu, Tudor; Clarke, Eric F; Hansen, Mads; Konvalinka, Ivana; Kringelbach, Morten L; Vuust, Peter.
Publication: Research - peer-review › Journal article – Annual report year: 2016

Task relevance differentially shapes ventral visual stream sensitivity to visible and invisible faces. / Kouider, Sid; Barbot, Antoine ; Madsen, Kristoffer Hougaard; Lehericy, Stéphane ; Summerfield, Christopher .
Publication: Research - peer-review › Journal article – Annual report year: 2016

The Center for Integrated Molecular Brain Imaging (Cimbi) database. / Knudsen, Gitte M.; Jensen, Peter S.; Erritzoe, David; Baaré, William F. C.; Ettrup, Anders; Fisher, Patrick M.; Gillings, Nic; Hansen, Hanne D.; Hansen, Lars Kai; Hasselbalch, Steen G; Henningsson, Susanne; Herth, Matthias M; Holst, Klaus K; Iversen, Pernille; Kessing, Lars V; Macoveanu, Julian; Madsen, Kathrine Skak; Mortensen, Erik L; Nielsen, Finn Årup; Paulson, Olaf B.; Siebner, Hartwig R.; Stenbæk, Dea S.; Svarer, Claus; Jernigan, Terry L.; Strother, Stephen C.; Frokjaer, Vibe G.
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. / Churchill, Nathan William; Madsen, Kristoffer Hougaard; Mørup, Morten.
Publication: Research - peer-review › Journal article – Annual report year: 2016

The influence of hyper-parameters in the infinite relational model. / Albers, Kristoffer Jon; Mørup, Morten; Schmidt, Mikkel Nørgaard.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Towards Improving Overview and Metering through Visualisation and Dynamic Query Filters for User Interfaces Implementing the Stage Metaphor for Music Mixing. / Gelineck, Steven; Uhrenholt, Anders Kirk.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Towards Motion-Insensitive Magnetic Resonance Imaging Using Dynamic Field Measurements. / Andersen, Mads; Hansen, Lars G. (Main supervisor); Madsen, Kristoffer Hougaard (Supervisor).
Technical University of Denmark, Department of Electrical Engineering, 2016. 109 p.
Publication: Research › Ph.D. thesis – Annual report year: 2016

Training shortest-path tractography: Automatic learning of spatial priors. / Kasenburg, Niklas; Liptrot, Matthew George; Reislev, Nina Linde; Orting, Silas N.; Nielsen, Mads; Garde, Ellen; Feragen, Aasa.
Publication: Research - peer-review › Journal article – Annual report year: 2016

Using Concrete and Realistic Data in Evaluating Initial Visualization Designs. / Knudsen, Søren; Pedersen, Jeppe Gerner ; Herdal, Thor ; Larsen, Jakob Eg.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Variational group-PCA for intrinsic dimensionality determination in fMRI data. / Hinrich, Jesper Løve; Nielsen, Søren Føns Vind; Madsen, Kristoffer Hougaard; Mørup, Morten.


Enhanced computational methods for quantifying the effect of geographic and environmental isolation on genetic differentiation. / Botta, Filippo; Eriksen, Casper; Fontaine, Michaël C.; Guillot, Gilles. In: Methods in Ecology and Evolution, Vol. 6, No. 11, 2015, p. 1270-1277. Publication: Research - peer-review › Journal article – Annual report year: 2015


Highly-Expressive Spaces of Well-Behaved Transformations: Keeping It Simple. / Freifeld, Oren ; Hauberg, Søren; Batmanghelich, Kayhan ; Fisher, John W. . 2015. Paper presented at 15th International Conference on Computer Vision, Santiago, Chile. Publication: Research - peer-review › Paper – Annual report year: 2015
New frontiers of quantified self: finding new ways for engaging users in collecting and using personal data. / Rapp, Amon; Cena, Federica; Kay, Judy; Kummerfeld, Bob; Hopfgartner, Frank; Plumbaa, Till; Larsen, Jakob Eg.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Nonparametric modeling of dynamic functional connectivity in fmri data. / Nielsen, Søren Føns Vind; Madsen, Kristoffer H.; Røge, Rasmus; Schmidt, Mikkel Nørgaard; Albers, Kristoffer Jon.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Numerical approximations for speeding up mcmc inference in the infinite relational model. / Schmidt, Mikkel Nørgaard; Albers, Kristoffer Jon.
(Proceedings of the European Signal Processing Conference).
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

On Geodesic Exponential Kernels. / Feragen, Aasa; Lauze, François; Hauberg, Søren.
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Online Open Neuroimaging Mass Meta-Analysis with a Wiki. / Nielsen, Finn Arup; Kempton, Matthew J.; Williams, Steven C. R.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Opportunities and Challenges in Crowdsourced Wardriving. / Sapiezynski, Piotr; Gatej, Radu; Mislove, Alan; Jørgensen, Sune Lehmann.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Patterns of trawling exploitation and the occurrence of hypoxia in the Baltic Sea. / Bartolino, Valerio; Guillot, Gilles.
2015. 9 p.
Publication: Research › Report – Annual report year: 2015

Perception-Based Personalization of Hearing Aids Using Gaussian Processes and Active Learning. / Nielsen, Jens Brehm; Nielsen, Jakob; Larsen, Jan.
Publication: Research - peer-review › Journal article – Annual report year: 2015

Principal Curves on Riemannian Manifolds. / Hauberg, Søren.
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, Dan Tito; Jørgensen, Henrik L; Winther, Ole.
In: Rare Diseases (Online), Vol. 3, No. 1, e1083145, 2015.
Publication: Research - peer-review › Journal article – Annual report year: 2015

Recurrent Spatial Transformer Networks. / Sønderby, Søren Kaae; Sønderby, Casper Kaae; Maaløe, Lars; Winther, Ole.
Publication: Research › Journal article – Annual report year: 2015
Robustness and modular structure in networks. / Bagrow, James P.; Lehmann, Sune; Ahn, Yong-Yeol.
Publication: Research - peer-review › Journal article – Annual report year: 2016

Publication: Research - peer-review › Journal article – Annual report year: 2015

S-AMP for non-linear observation models. / Cakmak, Burak; Winther, Ole; Fleury, Bernard H.
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. / Arnfred, Sidse M.; Raballo, Andrea; Mørup, Morten; Parnas, Josef.
Publication: Research - peer-review › Journal article – Annual report year: 2015

SOA thresholds for the perception of discrete/continuous tactile stimulation. / Eid, Mohamad; Korres, Georgios; Jensen, Camilla Birgitte Falk.
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. / Frøhling, Kasper Bayer; Alstrøm, Tommy Sonne; Bache, Michael; Schmidt, Michael Stenbæk; Schmidt, Mikkel Nørgaard; Larsen, Jan; Jakobsen, Mogens Havsteen; Boisen, Anja.
2015. Abstract from 8th International Conference on Advanced Vibrational Spectroscopy, Vienna, Austria.
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Statistical learning for predictive targeting in online advertising. / Fruergaard, Bjarne Ørum; Hansen, Lars Kai (Main supervisor); Urban, Jesper (Supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2015

Synchronised and complementary coordination mechanisms in an asymmetric joint aiming task. / Skewes, Joshua Charles; Skewes, Lea; Michael, John; Konvalinka, Ivana.
Publication: Research - peer-review › Journal article – Annual report year: 2014

Systems for Personalization of Hearing Instruments : A Machine Learning Approach. / Nielsen, Jens Brehm; Larsen, Jan (Main supervisor); Nielsen, Jakob (Supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2015

Temporal fidelity in dynamic social networks. / Stopczynski, Arkadiusz; Sapiezynski, Piotr; Pentland, Alex ‘Sandy’; Jørgensen, Sune Lehmann.
Publication: Research - peer-review › Journal article – Annual report year: 2015

Testing Multimodal Integration Hypotheses with Application to Schizophrenia Data. / Axelsen, Martin Christian; Bak, Nikolaj; Hansen, Lars Kai.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015
The Danish 22q11 research initiative. / Schmock, Henriette; Vangkilde, Anders; Larsen, Kit Melissa; Fischer, Elvira; Birknow, Michelle Rosgaard; Jepsen, Jens Richard Møllegaard; Olesen, Charlotte; Skovby, Flemming; Plessen, Kerstin Jessica; Mørup, Morten; Hulme, Ollie; Baare, William Frans Christiaan; Didriksen, Michael; Siebner, Hartwig Roman; Werge, Thomas; Olsen, Line.
Publication: Research - peer-review › Journal article – Annual report year: 2015

The early maximum likelihood estimation model of audiovisual integration in speech perception. / Andersen, Tobias.
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. / Mesgari, Mostafa; Okoli, Chitu; Mohamad, Mehdi; Nielsen, Finn Årup; Lanamäki, Arto.
Publication: Research - peer-review › Journal article – Annual report year: 2014

Thinking outside of the box or enjoying your 2 seconds of frame? / Bækgaard, Per; Petersen, Michael Kai; Larsen, Jakob Eg.
Proceedings of the 9th International Conference on Universal Access in Human-Computer Interaction (UAHCI 2015):
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Topological Rankings in Communication Networks. / Aabrandt, Andreas; Hansen, Vagn Lundsgaard; Træholt, Chresten.
Publication: Research - peer-review › Journal article – Annual report year: 2015

Towards quantitative SERS detection of hydrogen cyanide at ppb level for human breath analysis. / Lauridsen, Rikke Kragh; Rindzevicius, Tomas; Molin, Søren; Johansen, Helle Krog; Berg, Rolf W.; Alstrøm, Tommy Sonne; Almdal, Kristoffer; Larsen, Flemming; Schmidt, Michael Stenbæk; Boisen, Anja.
Publication: Research - peer-review › Journal article – Annual report year: 2015

Tracking Human Mobility Using WiFi Signals. / Sapiezynski, Piotr; Stopczynski, Arkadiusz; Gatej, Radu; Jørgensen, Sune Lehmann.
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, Kristoffer Hougaard; Ewald, Lars; Siebner, Hartwig R.; Thielscher, Axel.
In: Brain Stimulation, Vol. 8, No. 6, 2015, 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. / Wu, Xudong; Bekker-Jensen, Ida Holst; Christensen, Jesper; Rasmussen, Kasper Dindler; Sidoli, Simone; Qi, Yan; Kong, Yu; Wang, Xi; Cui, Yajuan; Xiao, Zhijian; Xu, Guogang; Williams, Kristine; Rappsilber, Juri; Sanderby, Casper Kaae; Winther, Ole; Jensen, Ole N.; Helin, Kristian.
Publication: Research - peer-review › Journal article – Annual report year: 2015

Unsupervised segmentation of task activated regions in fmRI. / Røge, Rasmus; Madsen, Kristoffer Hougaard; Schmidt, Mikkelsen Nørgaard; Mørup, Morten.
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. / Smith, Steve; Brauer, Chris; Unmack, Peter; Guillot, Gilles; Bernatchez, Louis; B. Beheregaray, Luciano.
Publication: Research › Report – Annual report year: 2015

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. / Glückstad, Fumiko Kano; Herlau, Tue; Schmidt, Mikkel Nørgaard; Mørup, Morten.
Publication: Research - peer-review › Journal article – Annual report year: 2014

A Centrifugal Microfluidic Platform for Biomarker Detection in Blood using BluRay Technology. / Burger, Robert; Antunes, Paula Soares Martins; Donolato, Marco; Alstrøm, Tommy Sonne; Nielsen, L.K.; Dziegiel, M.H.; Hansen, Mikkel Foug; Boisen, Anja.
2014. Poster session presented at 24th Anniversary World Congress on Biosensors, Melbourne, Australia.
Publication: Research - peer-review › Poster – Annual report year: 2014

Action and Language Mechanisms in the Brain: Data, Models and Neuroinformatics. / Arbib, Michael A.; Bonaiuto, James J.; Bornkessel-Schlesewsky, Ina; Kemmerer, David; MacWhinney, Brian; Nielsen, Finn Årup; Oztop, Erhan.
Publication: Research - peer-review › Journal article – Annual report year: 2014

Adapting the Theory of Visual Attention (TVA) to model auditory attention. / Roberts, Katherine L.; Andersen, Tobias; Kyllingsbæk, Søren ; Lamberts, Koen.
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Analyzing Social Interactions: Promises and Challenges of Cross Recurrence Quantification Analysis. / Fusaroli, Riccardo; Konvalinka, Ivana; Wallot, Sebastian.
Publication: Research - peer-review › Book chapter – Annual report year: 2014

Are deep neural networks really learning relevant features? / Kereliuk, Corey Mose; Larsen, Jan; Sturm, Bob L.
Publication: Research › Paper – Annual report year: 2015

A regularized matrix factorization approach to induce structured sparse-low-rank solutions in the EEG inverse problem. / Montoya-Martinez, Jair; Artes-Rodriguez, Antonio; Pontil, Massimiliano; Hansen, Lars Kai.
Publication: Research - peer-review › Journal article – Annual report year: 2014

Bayesian Correlated Component Analysis for inference of joint EEG activation. / Poulsen, Andreas Trier; Kamrønn, Simon Due; Parra, Lucas; Hansen, Lars Kai.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Bayesian Inference for Structured Spike and Slab Priors. / Andersen, Michael Riis; Winther, Ole; Hansen, Lars Kai.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015
Bone Signaling in Middle Ear Development: A Genome-Wide Differential Expression Analysis. / Nielsen, Michelle Christine; Bertelsen, Tomas Martin; Friis, Morten; Winther, Ole; Friis-Hansen, Lennart; Cayé-Thomasen, Per; Sørensen, Mads Selvsten.
Publication: Research - peer-review › Journal article – Annual report year: 2014

Brain Network Modelling. / Andersen, Kasper Winther; Hansen, Lars Kai (Main supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2014

Brede Tools and Federating Online Neuroinformatics Databases. / Nielsen, Finn Årup.
Publication: Research - peer-review › Journal article – Annual report year: 2014

Characterization of the time-evolving bending profile of micro-cantilevers. / Alstrøm, Tommy Sonne; Bosco, Filippo; Larsen, Jan; Bache, Michael; Brøgger, Anna Line; Frehling, Kasper Bayer; Hwu, E. T.; Chen, Ching-Hsiu; Hwang, Ing-Shouh; Boisen, Anja.
Publication: Research - peer-review › Poster – Annual report year: 2014

Community structure in resting state complex networks. / Andersen, Kasper Winther; Madsen, Kristoffer H.; Siebner, Hartwig Roman; Schmidt, Mikkel Nørgaard; Mørup, Morten; Hansen, Lars Kai.
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Compact Web browsing profiles for click-through rate prediction. / Fruergaard, Bjarne Ørum; Hansen, Lars Kai.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Data-driven Vessel Performance Monitoring. / Pedersen, Benjamin Pjedsted; Andersen, Poul (Supervisor); Larsen, Jan (Supervisor); Sinding, Peter (Supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2015

Denoising by semi-supervised kernel PCA preimaging. / Hansen, Toke Jansen; Abrahamsen, Trine Julie; Hansen, Lars Kai.
Publication: Research - peer-review › Journal article – Annual report year: 2014

Differentiating emotional responses to images and words. / Jensen, Camilla Birgitte Falk; Petersen, Michael Kai; Larsen, Jakob Eg.
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Disasters in personal informatics: The unpublished stories of failure and lessons learned. / Larsen, Jakob Eg; E. Froehlich, Jon; Kay, Matthew; Thomaz, Edison.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Discovering hierarchical structure in normal relational data. / Schmidt, Mikkel Nørgaard; Herlau, Tue; Mørup, Morten.
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. / Dossing, Kristina B. V.; Binderup, Tina; Kaczkowski, Bogumil; Jacobsen, Anders; Rossing, Maria; Winther, Ole; Federspiel, Birgitte; Knigge, Ulrich; Kjær, Andreas; Fris-Hansen, Lennart.
Publication: Research - peer-review › Journal article – Annual report year: 2014

EEG Source Reconstruction using Sparse Basis Function Representations. / Hansen, Sofie Therese; Hansen, Lars Kai.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Efficient inference of overlapping communities in complex networks. / Fruergaard, Bjarne Ørum; Herlau, Tue.
Publication: Research › Journal article – Annual report year: 2014

Electrophysiological assessment of audiovisual integration in speech perception. / Eskelund, Kasper; Andersen, Tobias (Main supervisor); MacDonald, Ewen (Supervisor); Dau, Torsten.
Publication: Research › Ph.D. thesis – Annual report year: 2014

Emotional responses as independent components in EEG. / Jensen, Camilla Birgitte Falk; Petersen, Michael Kai; Larsen, Jakob Eg.
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]. / Mørup, Morten; Schmidt, Mikkel Nørgaard.
Publication: Research - peer-review › Journal article – Annual report year: 2014

Fast sampling from a Hidden Markov Model posterior for large data. / Bonnevie, Rasmus; Hansen, Lars Kai.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

FindZebra - the search engine for difficult medical cases. / Winther, Ole; Svenstrup, Dan Tito; Henningsen, Philip P.; Kristiásson, Róbert; Jørgensen, Henrik L.
Publication: Research - peer-review › Journal article – Annual report year: 2015

Four Data Visualization Heuristics to Facilitate Reflection in Personal Informatics. / Cuttone, Andrea; Petersen, Michael Kai; Larsen, Jakob Eg.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Frontal alpha oscillations distinguish leaders from followers: Multivariate decoding of mutually interacting brains. / Konvalinka, Ivana; Bauer, Markus; Stahlhut, Carsten; Hansen, Lars Kai; Roepstorff, Andreas; Frith, Chris D.
Publication: Research - peer-review › Journal article – Annual report year: 2014

Grassmann Averages for Scalable Robust PCA. / Hauberg, Søren; Feragen, Aasa; Black, Michael J. .
Guest Editorial: Machine Learning for Signal Processing. / Katagiri, Shigeru; Nakamura, Atsushi; Adali, Tülay; Tao, Jianhua; Larsen, Jan; Tan, Tieniu.

Imaging based agglutination measurement of magnetic micro-particles on a Lab-on-a-Disc platform. / Wantiya, Piyathip; Burger, Robert; Alstrøm, Tommy Sonne; Donolato, Marco; Minitois, Maria F.; Hansen, Mikkel Fougøt; Wingren, Anette G.; Boisen, Anja.

Improving spectral resolution of SERS using moving AG nanopillar substrate. / Bregger, Anna Line; Schmidt, Michael Stenbæk; Rindzevicius, Tomas; Alstrøm, Tommy Sonne; Boisen, Anja.
2014. Poster session presented at 24th International Conference on Raman Spectroscopy, Jena, Germany.

Improving the robustness of Surface Enhanced Raman Spectroscopy based sensors by Bayesian Non-negative Matrix Factorization. / Alstrøm, Tommy Sonne; Frøhling, Kasper Bayer; Larsen, Jan; Schmidt, Mikkel Nørgaard; Bache, Michael; Schmidt, Michael Stenbæk; Jakobsen, Mogens Havsteen; Boisen, Anja.

Inferring Human Mobility from Sparse Low Accuracy Mobile Sensing Data. / Cuttone, Andrea; Jørgensen, Sune Lehmann; Larsen, Jakob Eg.

Infinite-degree-corrected stochastic block model. / Herlau, Tue; Schmidt, Mikkel Nørgaard; Mørup, Morten.

In the twinkling of an eye: synchronization of EEG and eye tracking based on blink signatures. / Bækgaard, Per; Petersen, Michael Kai; Larsen, Jakob Eg.

Joint Iterative Carrier Synchronization and Signal Detection Employing Expectation Maximization. / Zibar, Darko; de Carvalho, Luis Henrique Hecker; Estaran Tolosa, Jose Manuel; Silva, Edison; Franciscangelis, Carolina; Ribeiro, Vitor; Borkowski, Robert; Winther, Ole; Schmidt, Mikkel Nørgaard; Oliveira, Julio; Tafur Monroy, Idelfonso.

Measuring Large-Scale Social Networks with High Resolution. / Stopczynski, Arkadiusz; Sekara, Vedran; Sapiezynski, Piotr; Cuttone, Andrea; Madsen, Mette My; Larsen, Jakob Eg; Lehmann, Sune.

Metrics and Evaluation Models for Accessible Television. / Li, Dongxiao; Looms, Peter Olaf.


Nonparametric statistical structuring of knowledge systems using binary feature matches. / Mørup, Morten; Glückstad, Fumiko Kano; Herlau, Tue; Schmidt, Mikkel Nørgaard.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

On the number of spanning trees in random regular graphs. / Greenhill, Catherine; Kwan, Matthew; Wind, David Kofoed.
Publication: Research - peer-review › Journal article – Annual report year: 2014

På dynamikken fik han skik - og Abelprisen til Sinai gik. / Hansen, Vagn Lundsgaard; Hjorth, Poul G.
Publication: Research › Journal article – Annual report year: 2014

Probabilistic shortest path tractography in DTI using Gaussian Process ODE solvers. / Schober, Michael; Kasenburg, Niklas; Feragen, Aasa; Hennig, Philipp; Hauberg, Søren.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Ranking Entities in Networks via Lefschetz Duality. / Aabrandt, Andreas; Hansen, Vagn Lundsgaard; Poulsen, Bjarne; Træholt, Chresten.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

S-AMP: Approximate Message Passing for General Matrix Ensembles. / Cakmak, Burak; Winther, Ole; Fleury, Bernard H.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Semi-supervised eigenvectors for large-scale locally-biased learning. / Hansen, Toke Jansen; Mahoney, Michael W.
Publication: Research - peer-review › Journal article – Annual report year: 2015

Smartphones as pocketable labs: Visions for mobile brain imaging and neurofeedback. / Stopczynski, Arkadiusz; Stahlhut, Carsten; Petersen, Michael Kai; Larsen, Jakob Eg; Jensen, Camilla Birgitte Falk; Ivanova, Marieta Georgieva; Andersen, Tobias; Hansen, Lars Kai.
Publication: Research - peer-review › Journal article – Annual report year: 2013

Supplementary Notes for Graph Theory 1: Including solutions for selected weekly exercises. / Wind, David Kofoed; Wind, David Kofoed.
Publication: Research - peer-review › Book – Annual report year: 2014

The Fire-Walker’s High: Affect and Physiological Responses in an Extreme Collective Ritual. / Fischer, Ronald; Xygalatas, Dimitris; Mitkidi, Panagiotis; Reddish, Paul; Tok, Penny; Konvalinka, Ivana; Bulbulia, Joseph.
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. / Grislain- Lêtrée, Céline; Katossky, Arthur.
Publication: Research - peer-review › Journal article – Annual report year: 2014
3D gender recognition using cognitive modeling. / Fagertun, Jens; Andersen, Tobias; Hansen, Thomas; Paulsen, Rasmus Reinhold.

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

Abelpris til Pierre Deligne for banebrydende matematisk rapsodi om de algebraiske ligningers geometri. / Hansen, Vagn Lundsgaard; Hjorth, Poul G.

Publication: Research › Journal article – Annual report year: 2014

A Hierarchical Bayesian M/EEG Imaging Method Correcting for Incomplete Spatio-Temporal Priors. / Stahlhut, Carsten; Attias, Hagai T.; Sekihara, Kensuke; Wipf, David; Hansen, Lars Kai; Nagarajan, Srikantan S.

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

A Mobile Personal Informatics System with Interactive Visualizations of Mobility and Social Interactions. / Cuttone, Andrea; Jørgensen, Sune Lehmann; Larsen, Jakob Eg.

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

Analysis of Conceptualization Patterns across Groups of People. / Glückstad, Fumiko Kano; Herlau, Tue; Schmidt, Mikkel Nørgaard; Mørup, Morten; Rzepka, Rafal; Araki, Kenji.

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

Analysis of Subjective Conceptualizations Towards Collective Conceptual Modelling. / Glückstad, Fumiko Kano; Herlau, Tue; Schmidt, Mikkel Nørgaard; Mørup, Morten.

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

A Neural Marker of Perceptual Consciousness in Infants. / Kouider, Sid; Stahlhut, Carsten; Gelskov, Sofie V.; Barbosa, Leonardo S.; Dutat, Michel; de Gardelle, Vincent; Christophe, Anne; Dehaene, Stanislas; Dehaene-Lambertz, Ghislaine.

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

Archetypal analysis of diverse Pseudomonas aeruginosa transcriptomes reveals adaptation in cystic fibrosis airways. / Thøgersen, Juliane Charlotte; Mørup, Morten; Pedersen, Søren Damkiaer; Molin, Søren; Jelsbak, Lars.

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

Assessing Miniaturized Sensor Performance using Supervised Learning, with Application to Drug and Explosive Detection. / Alstrøm, Tommy Sonne; Larsen, Jan (Main supervisor).

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

Autobiographical Memory in a Fire-Walking Ritual. / Xygalatas, Dimitris; Schjoedt, Uffe; Bulbulia, Joseph; Konvalinka, Ivana; Jegindø, Else-Marie Ehmholdt; Reddish, Paul; Geertz, Armin W.; Roepstorff, Andreas.

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

Believing versus interacting: Behavioural and neural mechanisms underlying interpersonal coordination. / Konvalinka, Ivana; Bauer, Markus; Kliner, James; Roepstorff, Andreas; Frith, Chris D.

2013. Abstract from 18th Meeting of the European Society for Cognitive Psychology (ESCOP), Budapest, Hungary.
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014
Bounded Gaussian process regression. / Jensen, Bjørn Sand; Nielsen, Jens Brehm; Larsen, Jan.  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Comparing Structural Brain Connectivity by the Infinite Relational Model. / Ambrosen, Karen Marie Sandø; Herlau, Tue; Dyrbø, Tim; Schmidt, Mikkel Nørgaard; Marup, Morten.  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Complementary coordination strategies in a joint Fitts' reciprocal aiming task. / Konvalinka, Ivana; Skewes, Lea; Michael, J.; Skewes, Joshua Charles.  
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Crowds, Bluetooth and Rock'n'Roll: Understanding Music Festival Participant Behavior. / Larsen, Jakob Eg; Sapiezynski, Piotr; Stopczynski, Arkadiusz; Marup, Morten; Theodorsen, Rasmus. 
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Crowds, Bluetooth, and Rock'n'Roll: Understanding Music Festival Participant Behavior. / Larsen, Jakob Eg; Sapiezynski, Piotr; Stopczynski, Arkadiusz; Marup, Morten; Theodorsen, Rasmus.  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Dimensionality reduction for click-through rate prediction: Dense versus sparse representation. / Fruergaard, Bjarne Ørum ; Hansen, Toke Jansen; Hansen, Lars Kai.  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

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

Efficient individualization of hearing aid processed sound. / Nielsen, Jens Brehm; Nielsen, Jakob.  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Estimating passenger numbers in trains using existing weighing capabilities. / Nielsen, Bo Friis; Frølich, Laura; Nielsen, Otto Anker; Filges, Dorte. 
Publication: Research - peer-review › Journal article – Annual report year: 2013

Expansion of the Variational Garrote to a Multiple Measurement Vectors Model. / Hansen, Sofie Therese; Stahlhut, Carsten; Hansen, Lars Kai.  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

FindZebra: A search engine for rare diseases. / Draganin, Radu; Petcu, Paula; Lioma, Christina Amalia; Larsen, Birger; Jørgensen, Hans Henrik; Cox, Ingemar; Hansen, Lars Kai; Ingwersen, Peter; Winther, Ole. 
Publication: Research - peer-review › Journal article – Annual report year: 2013


**Kernel Methods for Machine Learning with Life Science Applications.** / Abrahamsen, Trine Julie; Hansen, Lars Kai (Main supervisor); Winther, Ole (Supervisor). Kgs. Lyngby : Technical University of Denmark (DTU), 2013. 168 p. (PHD-2013; No. 299).


Unsupervised knowledge structuring Application of Infinite Relational Models to the FCA visualization. / Glückstad, Fumiko Kano; Herlau, Tue; Schmidt, Mikkel Nørgaard; Mørup, Morten.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Variance inflation in high dimensional Support Vector Machines. / Abrahamsen, Trine Julie; Hansen, Lars Kai.
Publication: Research - peer-review › Journal article – Annual report year: 2013

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

Integration of top-down and bottom-up information for audio organization and retrieval. / Jensen, Bjørn Sand; Larsen, Jan (Main supervisor); Hansen, Lars Kai (Supervisor).
Publication: Research › Ph.D. thesis – Annual report year: 2013

Joint Modelling of Structural and Functional Brain Networks. / Andersen, Kasper Winther; Herlau, Tue; Marup, Morten; Schmidt, Mikkel Nørgaard; Madsen, Kristoffer H.; Lyksborg, Mark; Dyrbj, Tim B.; Siebner, Hartwig R.; Hansen, Lars Kai.
Publication: Research - peer-review › Paper – Annual report year: 2012

Link prediction in weighted networks. / Wind, David Kofoed; Mørup, Morten.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Multi-colorimetric sensor array for detection of illegal materials. / Kostesha, Natalie; Boisen, Anja; Jakobsen, Mogens Havsteen; Alstrøm, Tommy Sonne; Larsen, Jan.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Semi-supervised Eigenvectors for Locally-biased Learning. / Hansen, Toke Jansen; Mahoney, Michael W.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

String matching with variable length gaps. / Bille, Philip; Gørtz, Inge Li; Vildhøj, Hjalte Wedel; Wind, David Kofoed.
Publication: Research - peer-review › Journal article – Annual report year: 2012

Demonstration: A smartphone 3D functional brain scanner. / Stahlhut, Carsten; Stopczynski, Arkadiusz; Larsen, Jakob Eg; Petersen, Michael Kai; Hansen, Lars Kai.
Publication: Research › Conference abstract for conference – Annual report year: 2011