

List of publications

Refereed journal publications

- [1] Muralikrishnan Srinivasan, Jinxiang Song, Alexander Grabowski, Krzysztof Szczerba, Holger K. Iversen, Mikkel N. Schmidt, Darko Zibar, Jochen Schröder, Anders Larsson, Christian Häger, and Henk Wymeersch. “End-to-End Learning for VCSEL-based Optical Interconnects: State-of-the-Art, Challenges, and Opportunities”. In: *Journal of Lightwave Technology* (2023). DOI: 10.1109/JLT.2023.3251660. URL: <http://arxiv.org/abs/2211.14481>.
- [2] Kristoffer Jon Albers, Matthew G. Liptrot, Karen Sandø Ambrosen, Rasmus Røge, Tue Herlau, Kasper Winther Andersen, Hartwig R. Siebner, Lars Kai Hansen, Tim B. Dyrby, Kristoffer H. Madsen, Mikkel N. Schmidt, and Morten Mørup. “Uncovering Cortical Units of Processing from Multi-Layered Connectomes”. In: *Frontiers in Neuroscience* (2022). DOI: 10.3389/fnins.2022.836259.
- [3] Bo li, Mikkel N. Schmidt, and Tommy S. Alstrøm. “Raman Spectrum Matching with Contrastive Representation Learning”. In: *Analyst* (2022). DOI: 10.1039/D2AN00403H.
- [4] Kristoffer Jon Albers, Karen S. Ambrosen, Matthew G. Liptrot, Tim B. Dyrby, Mikkel N. Schmidt, and Morten Mørup. “Using connectomics for predictive assessment of brain parcellations”. In: *NeuroImage* 238 (Sept. 2021). DOI: 10.1016/j.neuroimage.2021.118170.
- [5] Rasmus Bonnevie and Mikkel N. Schmidt. “Matrix product states for inference in discrete probabilistic models”. In: *Journal of machine learning research* 22 (2021). URL: <http://jmlr.org/papers/v22/18-431.html>.
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- [7] Mikkel N. Schmidt, Daniel Seddig, Eldad Davidov, Morten Mørup, Jan Michael Bauer, and Fumiko Kano Glückstad. “Latent Profile Analysis of Human Values: What is the Optimal Number of Clusters?” In: *Methodology* 17 (2 2021). DOI: 10.5964/meth.5479.
- [8] Kristoffer Jon Albers, Morten Mørup, Mikkel N. Schmidt, and Fumiko K. Glückstad. “Predictive evaluation of human value segmentations”. In: *Journal of Mathematical Sociology* (2020). DOI: 10.1080/0022250X.2020.1811277.
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- [10] Karen S. Ambrosen, Simon F. Eskildsen, Max Hinne, Kristine Krug, Henrik Lundell, Mikkel N. Schmidt, Marcel A. J. van Gerven, Morten Mørup, and Tim B. Dyrby. “Validation of structural brain connectivity networks: The impact of scanning parameters”. In: *NeuroImage* 204 (2019). DOI: 10.1016/j.neuroimage.2019.116207.
- [11] Kunal Ghosh, Annika Stuke, Milica Todorović, Peter Bjørn Jørgensen, Mikkel N. Schmidt, Aki Vehtari, and Patrick Rinke. “Deep Learning Spectroscopy: Neural Networks for Molecular Excitation Spectra”. In: *Advanced Science* 6 (9 May 2019). DOI: 10.1002/advs.201801367.
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- [26] Morten Arngren, Mikkel N. Schmidt, and Jan Larsen. “Unmixing of hyperspectral images using Bayesian nonnegative matrix factorization with volume prior”. In: *Journal of Signal Processing Systems* 65.3 (2010), pp. 479–496. DOI: 10.1007/s11265-010-0533-2.
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Refereed conference publications

- [28] Bo Li, Mikkel N. Schmidt, Tommy S. Alstrøm, and Sebastian U. Stich. “Partial variance reduction improves non-convex federated learning on heterogenous data”. In: *Computer Vision and Pattern Recognition Conference, The IEEE/CVF (CVPR)*. 2023. URL: <http://arxiv.org/abs/2212.02191>.
- [29] Anders S. Olsen, Emil Ortvald, Kristoffer H. Madsen, Mikkel N. Schmidt, and Morten Mørup. “Angular central Gaussian and Watson mixture models for assessing dynamic functional brain connectivity during a motor task”. In: *Unraveling the Brain, Data Science and Learning Workshop (DSLW), ICASSP Satellite*. 2023.
- [30] Tue Herlau, Mikkel N. Schmidt, and Morten Mørup. “Bayesian dropout”. In: *Workshop on Statistical Methods and Artificial Intelligence, International Workshop on (IWSMAI), Procedia Computer Science, vol 201*. 2022, pp. 771–776. DOI: 10.1016/j.procs.2022.03.105.
- [31] Rasmus Larsen and Mikkel N. Schmidt. “Programmatic policy extraction by iterative local search”. In: *Approaches and Applications of Inductive Programming, International Workshop on (AAIP), Lecture Notes in Computer Science, vol 13191*. 2021. DOI: 10.1007/978-3-030-97454-1_11.
- [32] Mikkel N. Schmidt, Tommy S. Alstrøm, Marcus Svendstorp, and Jan Larsen. “Peak detection and baseline correction using a convolutional neural network”. In: *Acoustics, speech and signal processing, IEEE international conference on (ICASSP)*. 2019. DOI: 10.1109/ICASSP.2019.8682311.
- [33] Maximillian F. Vording, Peter O. Okeyo, Juan J. R. Guillaumon, Peter E. Larsen, Mikkel N. Schmidt, and Tommy S. Alstrøm. “A Bayesian generative model with Gaussian process priors for termomechanical analysis of micro-resonators”. In: *Machine Learning for Signal Processing, IEEE International Workshop on, (MLSP)*. 2019. DOI: 10.1109/MLSP.2019.8918876.
- [34] Kristoffer Jon Albers, Mikkel N. Schmidt, Morten Mørup, Marisciel Litong-Palima, Rasmus Bonnevie, and Fumiko Kano Glückstad. “Understanding Mindsets Across Markets, Internationally: A Public-Private Innovation Project for Developing a Tourist Data Analytic Platform”. In: *Computer Software and Applications Conference (COMPSAC)*. July 2018, pp. 159–164. DOI: 10.1109/COMPSAC.2018.10221.
- [35] Peter Bjørn Jørgensen, Karsten Wedel Jacobsen, and Mikkel N. Schmidt. “Neural Message Passing with Edge Updates for Predicting Properties of Molecules and Materials”. In: *Machine Learning for Molecules and Materials, NIPS workshop on*. 2018.
- [36] Søren F. V. Nielsen, Diego Vidaurre, Mikkel N. Schmidt, Kristoffer H. Madsen, and Morten Mørup. “Testing group differences in state transition structure of dynamic functional connectivity models”. In: *Pattern Recognition in NeuroImaging (PRNI)*. 2018. DOI: 10.1109/PRNI.2018.8423966.
- [37] Tommy S. Alstrøm, Mikkel N. Schmidt, Tomas Rindzevicius, Anja Boisen, and Jan Larsen. “A pseudo-Voigt component model for high-resolution recovery of constituent spectra in raman spectroscopy”. In: *Acoustics, speech and signal processing, IEEE international conference on (ICASSP)*. 2017. DOI: 10.1109/ICASSP.2017.7952570.
- [38] Rasmus Bonnevie, Morten Mørup, and Mikkel N. Schmidt. “Difference-Of-Convex Optimization For Variational KL-Corrected Inference In Dirichlet Process Mixtures”. In: *Machine Learning for Signal Processing, IEEE International Workshop on, (MLSP)*. 2017. DOI: 10.1109/MLSP.2017.8168159.

- [39] Jesper L. Hinrich, Søren F. V. Nielsen, Nicolai A. B. Riis, Casper T. Eriksen, Jacob Frøsig, Marco D. F. Kristensen, Mikkel N. Schmidt, Kristoffer H. Madsen, and Morten Mørup. “Scalable group level probabilistic sparse factor analysis”. In: *Acoustics, speech and signal processing, IEEE international conference on (ICASSP)*. 2017. DOI: 10.1109/ICASSP.2017.7952570.
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- [68] Mikkel N. Schmidt and Shakir Mohamed. “Probabilistic non-negative tensor factorization using Markov chain Monte Carlo”. In: *European Signal Processing Conference (EUSIPCO)*. 2009.
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- [73] Mikkel N. Schmidt and Rasmus K. Olsson. “Linear Regression on Sparse Features for Single-Channel Speech Separation”. In: *Applications of Signal Processing to Audio and Acoustics, IEEE Workshop on (WASPAA)*. 2007, pp. 26–29. DOI: 10.1109/ASPAA.2007.4393010.
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Refereed abstracts and workshop contributions

- [76] Philip H. Jørgensen, Søren F. V. Nielsen, Jesper L. Hinrich, Mikkel N. Schmidt, Kristoffer H. Madsen, and Morten Mørup. “Analysis of Chromatographic Data using the Probabilistic PARAFAC2”. In: *Machine Learning and the Physical Sciences, NeurIPS Workshop on*. 2019.
- [77] Fumiko K. Glückstad, Mikkel N. Schmidt, and Morten Mørup. “Testing a model of destination image formation: Application of nonparametric Bayesian relational modeling to destination image analysis”. In: *Global Marketing Conference at Tokyo*. July 2018, pp. 63–64. DOI: 10.15444/GMC2018.01.07.02.
- [78] Kasper B. Frøhling, Tommy S. Alstrøm, Michael Bache, Michael S. Schmidt, Mikkel N. Schmidt, Jan larsen, Mogens H. Jakobsen, and Anja Boisen. “Statistical analysis of large areas of Raman mapped DNA functionalized gold coated silicon nanopillar SERS substrates”. In: *Advanced Vibrational Spectroscopy, International Conference on (ICAVS)*. 2015.

- [79] Søren Føns Vind Nielsen, Kristoffer Hougaard Madsen, Rasmus Røge, Mikkel N. Schmidt, and Morten Mørup. “Nonparametric modeling of dynamic functional connectivity in fMRI data”. In: *Machine Learning and Interpretation in Neuroimaging, NIPS Workshop on (MLINI)*. 2015.
- [80] Kasper Winther Andersen, Kristoffer H. Madsen, Hartwig Roman Siebner, Mikkel N. Schmidt, Morten Mørup, and Lars Kai Hansen. “Community structure in resting state complex networks”. In: *Human Brain Mapping*. 2014.
- [81] Tue Herlau, Morten Mørup, and Mikkel N. Schmidt. “Temporally Evolving Hierarchies in Networks”. In: *NetSci*. 2013.
- [82] Kasper Winther Andersen, Tue Herlau, Morten Mørup, Mikkel N. Schmidt, Mark Lyksborg Kristoffer H. Madsen, Tim Dyrby, Hartwig Siebner, and Lars Kai Hansen. “Joint Modelling of Structural and Functional Brain Networks”. In: *NIPS workshop on Machine Learning and Interpretation in Neuroimaging*. 2012.
- [83] Sune Lehmann, Morten Mørup, and Mikkel N. Schmidt. “A Bayesian Generative Model for Pervasive Overlap”. In: *NetSci*. 2012.
- [84] Morten Mørup and Mikkel N. Schmidt. “Efficient inference in the infinite multiple membership relational model”. In: *NIPS workshop on Bayesian nonparametric: Hope or hype*. 2011.
- [85] Mikkel N. Schmidt, Morten Mørup, and Tue Herlau. “Hierarchical models of complex networks”. In: *NIPS workshop on Bayesian nonparametric: Hope or hype*. 2011.
- [86] Morten Mørup, Mikkel N. Schmidt, and Lars Kai Hansen. “Infinite multiple membership relational modeling for complex networks”. In: *NIPS workshop on Networks across disciplines in theory and applications*. 2010.
- [87] Mikkel N. Schmidt and Morten Mørup. “Reversible jump MCMC for Bayesian NMF”. In: *NIPS workshop on Monte Carlo methods for Bayesian inference in modern day applications*. 2010.

Theses

- [88] Mikkel N. Schmidt. “Single-channel source separation using non-negative matrix factorization”. PhD thesis. Technical University of Denmark, 2008.
- [89] Mikkel N. Schmidt and Jens Seiersen. “Perceptual unitary ESPRIT algorithm”. MA thesis. Aalborg University, 2003.

Technical reports

- [90] Morten Mørup and Mikkel N. Schmidt. “Sparse Non-negative Matrix Factor 2-D Deconvolution”.
- [91] Morten Mørup and Mikkel N. Schmidt. “Sparse Non-negative Tensor 2D Deconvolution (SNTF2D) for multi channel time-frequency analysis”.
- [92] Mikkel N. Schmidt. “Speech Separation using Non-negative Features and Sparse Non-negative Matrix Factorization 2007”.
- [93] Mikkel N. Schmidt and Morten Mørup. “Sparse Non-negative Matrix Factor 2-D Deconvolution for Automatic Transcription of Polyphonic Music”.
- [94] Mikkel N. Schmidt and Rasmus K. Olsson. “Feature Space Reconstruction for Single-Channel Speech Separation”.

Publications in preparation

- [95] Kristoffer J. Albers, Morten Mørup, and Mikkel N. Schmidt. “Local modes in the posterior distribution of Dirichlet process mixture models”. 2017.
- [96] Kristoffer Jon Albers, Karen Sandø Ambrossen, Rasmus Røge, Matthew G. Liptrot, Tue Herlau, Kasper Winther Andersen, Hartwig R. Siebner, Lars Kai Hansen, Tim B. Dyrby, Kristoffer H. Madsen, Mikkel N. Schmidt, and Morten Mørup. “Functional Whole-Brain Parcellation Improved by the Inclusion of Structural Connectivity”. 2017.
- [97] Kristoffer Jon Albers, Morten Mørup, Mikkel N. Schmidt, and Fumiko K. Glückstad. “Predictive evaluation of human value segmentations”. 2017.
- [98] Tue Herlau, Morten Mørup, Yee Whye Teh, and Mikkel N. Schmidt. “Adaptive Reconfiguration Moves for Efficient Markov Chain Sampling”. 2014. URL: <http://arxiv.org/abs/1406.0071>.
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