

List of Publications

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Conference Papers

- 2021 [1] M. Bai, Q. Zhao, and J. Gao. 2021, “Tensorial time series prediction via tensor neural ordinary differential equations,” in *2021 International Joint Conference on Neural Networks (IJCNN)*, IEEE, pp. 1–8.
- [2] C. F. Caiafa, Z. Wang, J. Sole-Casals, and Q. Zhao. 2021, “Learning from incomplete features by simultaneous training of neural networks and sparse coding,” in *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) Workshops*, pp. 2621–2630.
- [3] H. Qiu, C. Li, Y. Weng, Z. Sun, X. He, and Q. Zhao. 2021, “On the memory mechanism of tensor-power recurrent models,” in *International Conference on Artificial Intelligence and Statistics (AISTATS’21)*, PMLR, pp. 3682–3690.
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- [5] J. Tang, K. Li, X. Jin, A. Cichocki, Q. Zhao, and W. Kong. 2021, “Ctfn: Hierarchical learning for multimodal sentiment analysis using coupled-translation fusion network,” in *ACL-IJCNLP*.
- [6] J. Zhang, Z. Tao, L. Zhang, and Q. Zhao. 2021, “Tensor decomposition via core tensor networks,” in *ICASSP 2021-2021 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, IEEE, pp. 2130–2134.
- [7] Y.-B. Zheng, T.-Z. Huang, X.-L. Zhao, Q. Zhao, and T.-X. Jiang. 2021, “Fully-connected tensor network decomposition and its application to higher-order tensor completion,” in *Proceedings of the AAAI Conference on Artificial Intelligence (AAAI’21)*, vol. 35, pp. 11 071–11 078.
- 2020 [8] B. Li, C. Li, F. Duan, N. Zheng, and Q. Zhao. 2020, “Tpfm: Applying outer product along time to multimodal sentiment analysis fusion on incomplete data,” in *The 2020 European Conference on Computer Vision (ECCV-20)*.
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- [10] C. Li and Z. Sun. 2020, “Evolutionary topology search for tensor network decomposition,” in *International Conference on Machine Learning (ICML)*, PMLR, pp. 5947–5957.
- [11] Q. Shi, J. Yin, J. Cai, A. Cichocki, T. Yokota, L. Chen, M. Yuan, and J. Zeng. 2020, “Block hankel tensor arima for multiple short time series forecasting,” in *Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI-20)*, pp. 5758–5766.

- [12] A. Wang, C. Li, Z. Jin, and Q. Zhao. 2020, “Robust tensor decomposition via orientation invariant tubal nuclear norms,” in *Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI-20)*, pp. 6102–6109.
- [13] X. Zhao, J. Solé-Casals, B. Li, Z. Huang, A. Wang, J. Cao, T. Tanaka, and Q. Zhao. 2020, “Classification of epileptic iEEG signals by CNN and data augmentation,” in *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, pp. 926–930.
- [14] X. Zhao, L. Sui, T. Tanaka, J. Cao, and Q. Zhao. 2020, “Epileptic focus localization based on iEEG plot images by using convolutional neural network,” in *Proceedings of the 12th International Conference on Bioinformatics and Computational Biology*, vol. 70, pp. 173–181.
- 2019 [15] F. Aminmansour, A. Patterson, L. Le, Y. Peng, D. Mitchell, F. Pestilli, C. Caiafa, R. Greiner, and M. White. 2019, “Learning macroscopic brain connectomes via group-sparse factorization,” in *Advances in Neural Information Processing Systems 32 (NIPS 2019)*, pp. 8847–8857.
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- [37] J. Yu, G. Zhou, Q. Zhao, and K. Xie. 2018, "An effective tensor completion method based on multi-linear tensor ring decomposition," in *APSIPA-ASC 2018*, pp. 1244–1349.
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- 2021 [50] Z. Chen, G. Zhou, and Q. Zhao. 2021, "Hierarchical factorization strategy for high-order tensor and application for data completion," *IEEE Signal Processing Letters*,

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