



List of Publications

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Publication related to the doctoral thesis:

reviewed

1. Lukáš Adam and Václav Mácha. “Projections onto the canonical simplex with additional linear inequalities”. In: *Optimization Methods and Software* 37.2 (2022), pp. 451–479. DOI: [10.1080/10556788.2020.1797023](https://doi.org/10.1080/10556788.2020.1797023)
(??? citations)
2. Lukáš Adam et al. “General framework for binary classification on top samples”. In: *Optimization Methods and Software* 37.5 (2022), pp. 1636–1667. DOI: [10.1080/10556788.2021.1965601](https://doi.org/10.1080/10556788.2021.1965601)
(??? citations)

non reviewed

3. Václav Mácha, Lukáš Adam, and Václav Šmídl. *Nonlinear classifiers for ranking problems based on kernelized SVM*. 2020. arXiv: [10.48550/ARXIV.2002.11436](https://arxiv.org/abs/10.48550/ARXIV.2002.11436)
(??? citations)
4. Lukáš Adam, Václav Mácha, and Václav Šmídl. *DeepTopPush: Simple and Scalable Method for Accuracy at the Top*. 2020. arXiv: [10.48550/ARXIV.2006.12293](https://arxiv.org/abs/10.48550/ARXIV.2006.12293)
(??? citations)

Other publications:

reviewed

5. Václav Šmídl et al. “Predictive current limiter for LQ based control of AC drives”. In: *2015 IEEE International Symposium on Predictive Control of Electrical Drives and Power*

Electronics (PRECEDE). IEEE. 2015, pp. 55–60
(??? citations)

6. Václav Šmídl et al. “Analysis of cost functions and setpoints for predictive speed control of PMSM drives”. In: *2016 18th European Conference on Power Electronics and Applications (EPE'16 ECCE Europe)*. IEEE. 2016, pp. 1–8
(??? citations)
7. Václav Mácha, Václav Šmídl, and Zdeněk Peroutka. “Implementation of predictive spectrum control of a LC filter using ADMM”. in: *2017 IEEE International Symposium on Predictive Control of Electrical Drives and Power Electronics (PRECEDE)*. IEEE. 2017, pp. 78–82. doi: [10.1109/PRECEDE.2017.8071272](https://doi.org/10.1109/PRECEDE.2017.8071272)
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- [3] Lukáš Adam, Václav Mácha, and Václav Šmídl. *DeepTopPush: Simple and Scalable Method for Accuracy at the Top*. 2020. arXiv: [10.48550/ARXIV.2006.12293](#).
- [4] Lukáš Adam et al. “General framework for binary classification on top samples”. In: *Optimization Methods and Software* 37.5 (2022), pp. 1636–1667. DOI: [10.1080/10556788.2021.1965601](#).
- [5] Shivani Agarwal. “The infinite push: A new support vector ranking algorithm that directly optimizes accuracy at the absolute top of the list”. In: *Proceedings of the 2011 SIAM International Conference on Data Mining (SDM)*. SIAM. 2011, pp. 839–850. DOI: [10.1137/1.9781611972818.72](#).
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