



---

## List of Publications

---

**Author:** Ing. Václav Mácha  
**Supervisor:** doc. Ing Václav Šmídl, Ph.D.  
**Supervisor Specialist:** Mgr. Lukáš Adam, Ph.D.  
**Academic Year:** 2022/2023

### Related to Dissertation

#### Peer-reviewed Publications

1. L. Adam and V. Mácha, "Projections onto the canonical simplex with additional linear inequalities," *Optimization Methods and Software*, vol. 37, no. 2, pp. 451–479, 2022. doi: [10.1080/10556788.2020.1797023](https://doi.org/10.1080/10556788.2020.1797023)  
(0 citations)
2. L. Adam, V. Mácha, V. Šmídl, *et al.*, "General framework for binary classification on top samples," *Optimization Methods and Software*, vol. 37, no. 5, pp. 1636–1667, 2022. doi: [10.1080/10556788.2021.1965601](https://doi.org/10.1080/10556788.2021.1965601)  
(0 citations)

#### Other

3. V. Mácha, L. Adam, and V. 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)
4. L. Adam, V. Mácha, and V. 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)

#### Unrelated to Dissertation

5. V. Šmídl, V. Mácha, Š. Janouš, *et al.*, "Predictive current limiter for I<sub>q</sub> 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. doi: [10.1109/PRECEDE.2015.7395583](https://doi.org/10.1109/PRECEDE.2015.7395583)  
(0 citations)

6. V. Šmídl, V. Mácha, Š. Janouš, *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. doi: [10.1109/EPE.2016.7695661](https://doi.org/10.1109/EPE.2016.7695661)  
(0 citations)
7. V. Mácha, V. Šmídl, and Z. 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)  
(3 citations)