



**FACULTY OF ELECTRICAL  
ENGINEERING**  
UNIVERSITY  
OF WEST BOHEMIA

## Publikační činnost

Patent:

- [1] M. Bruha, T. Besselmann, P. Joerg, S. Almer, *Method for reduced harmonic excitation during pulse mode operation of load commutated inverters*, ID No. CH-1605101, No. 16199635.0.

Mezinárodní konference:

- [2] P. Jörg, A. Tresch, M. Bruha, *"A model based approach to optimize controls of a large LCI VSD for minimal grid-side sub-synchronous torsional interaction"*, Petroleum and Chemical Industry Conf. Europe (PCIC Europe), Istanbul, May 2013
- [3] M. Bruha, Z. Peroutka, *"Torsional vibration in large variable speed drive system: Origin and mitigation methods"*, European Power Electronics (EPE) conference, Geneva 2015
- [4] M. Mauri, M. Rossi, M. Bruha, *"Generation of torsional excitation in variable speed drive system"*, SPEEDAM conf., 2016
- [5] M. Bruha, *"Importance of control engineering to minimize torsional vibration in variable speed drive systems"*, Petroleum and Chemical Industry Conf. Europe (PCIC Europe), Berlin 2016
- [6] M. Bruha, M. Byrtus, K. Pietilaeinen, M. Rossi, M. Mauri, *"Torsional issues related to variable frequency control of elastic drive systems"*, IECON 2016, pp. 2981 - 2987
- [7] M. Bruha, M. Sirovy, V. Kindl, *"Methodology for complex energy efficiency evaluation of high-power variable speed drive applications"*, 17<sup>th</sup> International Conference on Mechatronics – Mechatronika (ME), 2016
- [8] M. Bruha, M. Visser, J. von Sebo, E. Virtanen, P. Tallinen, *"Protection of VSD transformers"*, Petroleum and Chemical Industry Conf. Europe (PCIC Europe), Vienna 2017
- [9] M. Bruha, V. Kindl, K. Hruska, *"Motor friendliness of variable frequency drives with output transformer"*, 19<sup>th</sup> European Power Electronics conference (EPE'17 ECCE Europe), Warsaw 2017

Národní konference:

- [10] M. Brůha, *"Vybraná specifika pohonu s vysokonapěťovým měničem ACS5000"*, Elektrické pohony – XXXIII. konference o elektrických pohonech, Plzeň, 2013.
- [11] M. Brůha, M. von Sebo, J.: *"Intelligent protection of VSD transformers"*, Elektrické pohony – XXXV. konference o elektrických pohonech, Plzeň, červen 2017

