

Application of hysteresis voltage control for three-level neutral point clamped voltage source inverter

Kolmakov, Nikolay; Bakhovtsev, Igor A.; **Jalakas, Tanel** 2015 56th International Scientific Conference on Power and Electrical Engineering of Riga Technical University (RTUCON) 2015 / p. 195-198 : ill

Current sensorless control algorithm for single-phase three-level NPC inverter

Suzdalenko, Alexander; **Zakis, Janis**; Steiks, Ingars Scientific Journal of Riga Technical University. Electrical, control and communication engineering 2014 / p. 28-33 : ill

Current sensorless control for half-bridge based AC/DC PFC converter with consideration of conduction losses

Suzdalenko, Alexander; **Chub, Andrii** International journal of circuit theory and applications 2016 / p. 2072-2084 : ill
<https://doi.org/10.1002/cta.2212> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Dead-beat-based model predictive current control for the dual-purpose dc-dc/ac PWM modular power converter

Roncero-Clemente, Carlos; Escalona, Javier-Gutierrez; Pires, V. Fernao; **Matiushkin, Oleksandr**; Milanés-Montero, Maria Isabel; Romero-Cadaval, Enrique 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604328>

Design and discretization of multi-resonant current controllers

Elkayam, Moria Sassonker; **Vinnikov, Dmitri** 2024 19th Conference on Ph.D Research in Microelectronics and Electronics (PRIME) 2024 / 4 p <https://doi.org/10.1109/PRIME61930.2024.10559737>

A fast current harmonic detection and mitigation strategy for shunt active filter

Firouzjah, Khalil Gorgani; **Ahmadihangar, Roya**; **Rosin, Argo**; **Häring, Tobias** 2019 Electric Power Quality and Supply Reliability Conference (PQ) & 2019 Symposium on Electrical Engineering and Mechatronics (SEEM), Kärđla, Estonia, June 12-15, 2019 : proceedings 2019 / 5 p. : ill <https://doi.org/10.1109/PQ.2019.8818253>

Model-free deep reinforcement learning-based current control for the dual-purpose dc-dc/ac power converter

Gutierrez-Escalona, Javier; Roncero-Clemente, Carlos; **Husev, Oleksandr**; **Matiushkin, Oleksandr**; Barrero-Gonzalez, Fermin; Gonzalez-Romera, Eva 2024 IEEE 18th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2024 / 6 p <https://doi.org/10.1109/CPE-POWERENG60842.2024.10604305>

Optimal fractional order PI controller for field oriented current control of switched reluctance motor

Mughees, Neelam; Ashfgar, Hira; **Shabbir, Noman**; **Rassölkin, Anton**; **Kütt, Lauri** 2021 IEEE 19th International Power Electronics and Motion Control Conference, The Silesian University of Technology Gliwice, Poland, 25 - 29 April, 2021 (PEMC) : proceedings 2021 / p. 479-485 <https://doi.org/10.1109/PEMC48073.2021.9432616>

Principles and methods of servomotor control : comparative analysis and applications

Autsou, Siarhei; **Kudelina, Karolina**; **Vaimann, Toomas**; **Rassölkin, Anton**; **Kallaste, Ants** Applied sciences 2024 / art. 2579
<https://doi.org/10.3390/app14062579> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Super twisting sliding mode control strategy for input series output parallel converters

Guler, Naki; Bayhan, Sertac; Fesli, Ugur; **Blinov, Andrei**; **Vinnikov, Dmitri** IEEE Access 2023 / p. 107394-107403
<https://doi.org/10.1109/ACCESS.2023.3320178> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Triple-Loop Control Configuration for Grid-Connected LCL-Filtered Inverters Based on Time-Domain Design

Elkayam, Moria Sassonker; **Vinnikov, Dmitri** 2023 IEEE 17th International Conference on Compatibility, Power Electronics and Power Engineering (CPE-POWERENG) 2023 / 6 p. : ill <https://doi.org/10.1109/CPE-POWERENG58103.2023.10227426>

Verification of current sensorless control for single-phase NPC multilevel inverter

Suzdalenko, Alexander; **Zakis, Janis**; Steiks, Ingars; Chaiko, Yelena 2015 9th International Conference on Compatibility and Power Electronics (CPE) : proceedings : Faculty of Science and Technology (FCT), Caparica, Lisbon, Portugal, 24-26 June, 2015 2015 / p. 462-466 : ill <http://dx.doi.org/10.1109/CPE.2015.7231119>