Publications

Total Publications

The Department has total number of **128** publications in Journals and Conferences.

Selected Publications (2015-2021)

Adaptive predictive control of flywheel storage for transient stability enhancement of a wind penetrated power system

- *International Journal of Energy Research-Wiley*-2021
- Abdul Waheed, M. D. Mufti, Mubashar Yaqoob Zargar.

A Fast Convergent Homotopy Perturbation Method for Solving Selective Harmonics Elimination PWM Problem in MLI

- *IEEE Access*-2021
- S. Ahmad, A. Iqbal, M. Ali, K. Rahman and A. S. Ahmed,

Optimal design and application of fuzzy logic equipped control in STATCOM to abate SSR oscillations

- *International Journal of Circuit Theory and Applications-Wiley*-2021
- Viqar Yousuf and Aijaz Ahmad

Selected Publications (2015-2021)...

ADRC-based control strategies to alleviate SSR using STATCOM

- *Electrical Engineering-Springer*-2021
- Viqar Yousuf and Aijaz Ahmad

Adaptive Multi-Resolution Frame-work for Fast Simulation of Power Electronic Circuits

- *IET Circuits, Devices and Systems*-2020
- Hadhiq Khan, M. A Bazaz, S. A. Nahvi

Distributed virtual synchronous generator approach versus singular virtual synchronous generator approach: A dynamic study

- *Wind Engineering*-2020
- Mubashar Yaqoob Zargar

Selected Publications (2015-2021)...

Dynamic performance enhancement of wind penetrated power system using SMES as virtual synchronous generator

- *International Journal of Power and Energy System*-2020
- Abdul W. Kumar, M.D. Mufti, and M.Y. Zargar

Dynamic performance improvement of isolated power system using intelligently controlled SMES

- *IET- Generation Transmission and distribution* -2020
- Mubashar Yaqoob Zargar, M. D. Mufti, S. A. Lone

Simulating Swing Dynamics of a Power System Model Using Nonlinear Model Order Reduction

- *COMPEL*-2019
- Satyavir Singh, Mohammad Abid Bazaz, Shahkar Ahmad Nahvi

Selected Publications (2015-2021)...

Low switching frequency modulation of a 3×3 matrix converter in UPFC application using differential evolution method

- *ITEES, Wiley*-2019
- Salman Ahmad, M. Al-Hitmi, Atif Iqbal, K. Rahman,I. Ashraf

Singular Perturbation based Model Reduction of Power Electronic Circuits

- *IET Circuits, Devices and Systems* -2019
- Hadhiq Khan, M. A. Bazaz and S. A. Nahvi

Selective Harmonics Elimination in MLI by a Derivative free Iterative Method under Varying Voltage Condition

- *ISA Transaction*-2019
- Salman Ahmad, Mohammad Meraj, Atif Iqbal and M.A Alhitmi

Selected Publications (2015-2021)...

Low-order harmonics control in staircase waveform useful in high power application by a novel technique

- *ITEES- Wiley* -2019
- S. Ahmad, M.A.Hitmi, A. Iqbal,I. Ashraf, M. Meraj, S. Padmanaban

Control of Low Order Harmonics in a 3 x 3 Matrix Converter using Differential Evolution Approach

- *ITEES-Wiley*-2019
- Salman Ahmad, Khaleeq ur Rahman, Atif Iqbal and M.A Al-Hitmi

Performance Comparison of SVPWM Techniques in a Dual Matrix Converter Fed Five-phase Open-End Load

- *IEEE Access* -2019
- K. Rahman, A. Iqbal, M. A Alhitmi, O. Dordevic, Salman Ahmad