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## **Research Paper Published:**

- Nisha Singh, Yogendra Arya and S. K. Gupta"Optimal power-frequency balance in deregulated thermal, hydro and hydrothermal power systems with AC-DC links" published in **Recent Advances in Electrical & Electronic** Engineering, Volume 12, Number 5, 2019, pp. 414-424(11), ISSN no 23520973.<u>https://doi.org/10.2174/2352096511666180705123018</u>
- Shilpa Gupta, Narendra Kumar and Nisha Singh, "Restraining Sub Synchronous Resonance with CDRPF-Signal Supported Static Var System" published in an International Journal, Elsevier, July 2018. Vol 16 ISSN no. 23524677, impact factor 2.115, Pages 136-144.<u>https://doi.org/10.1016/j.segan.2018.07.003</u>
- Nisha Singh, Yogendra Arya, S. K. Gupta, "A Comparative Analysis of AGC of Two-area Hydro-Thermal Power System Interconnected by AC-DC Parallel Link in Restructured Power System", Proceedings of 2018 2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES-2018), DTU, Delhi. DOI 10.1109/ICPEICES.2018.8897418Date Added to IEEE Xplore: 14, Publisher: IEEE
- Nidhi Gupta, Narendra Kumar and Nisha Singh, "Comparative analysis in PSO tuned AGC strategy of Multi Area Multi-source Power system Incorporating SMES", Proceedings of 2018 2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES-12018), DTU, Delhi.



- Narendrakumar, Shilpa Gupta, Nisha Singh "A Control Strategy for Subsynchronous Resonance Under Varying Degree of Series Compensation" Proceedings of 2018 2nd IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems (ICPEICES-12018), DTU, Delhi.
- 6. "A SSR Damping Strategy for a Power System with varying range of series compensation" the International conference on Recent Advances in Engineering and Technology (ICRAET) 2019, International Academy of Science, Technology, Engineering and Management held in Bangkok Thailand.
- 7. Narendra Kumar, J.N Rai, Nisha Singh 'SMES based generation control strategy of three-area deregulated power system' 34th Indian engineering congress held at Hyderabad international convention centre, Hyderabad during 27-29,2019.
- Nisha Singh "A State-of-the-Art Review of Generation Control Strategies for Restructured Power Systems" Journal of Sensor Research and Technologies Volume 5 Issue 3 DOI: <u>https://doi.org/10.5281/zenodo.10401022</u>
- 9. Nisha Singh, Bhagwati Prasad Joshi, Sachin Gupta, Akhilesh Singh, SachitRathee, "Renewable energy system Applications of Ambiguous fuzzy hybrid averaging operator" 2<sup>nd</sup>International Conference on Integrated circuits and communication systems (ICICAS-2024) organized by department of Electronics and communication engineering, H.K.E. Society's Sir M Visvesvaraya College of Engineering, Raichur during 23<sup>rd</sup> to 24<sup>th</sup> Feb 2024.
- 10. Nisha Singh, J. N Rai, Uma Nangia, "A novel SVS Control Strategy for Enhancement of Transient Performance of Power system with a Wide range of series compensation." The 5<sup>th</sup> International Conference on Artificial Intelligence and Smart Energy (ICAIS 2025) organized by JCT College of Engineering and Technology, Coimbatore, India, on 30-31 January 2025.

## **Patents**

Title of Invention – Wireless Electric Road for Charging Future EV Vehicles
Field of Invention – Electrical
Application number – 202321001634
Application Type – Ordinary Application
Applicant Name – 1. Dr. Shailendra Kr. Mittal, 2. Dr. M.S. Srinivasa
Rao, 3. Er. Yogendra Kumar Kushwaha, 4. Mr. Sumit Kr. Maitra, 5.
Ms. Abhilasha Pawar, 6. Mr. M. Praveen Kumar, 7. Ms. Nisha Singh, 8. Mr. SachitRathee, 9. Ms. Upma Singh, 10. Dr. Nellore Manoj Kumar

## **Other contributions**

- AICTE Team Member.
- PARAKH coordinator.