Faculty Profile

Name: **Dr. DIGVIJAY V NAIR**

Designation: **Assistant Professor**

Teaching Areas: Control systems, Electrical Sciences, Electromagnetic fieldsand waves, Microwave Engineering and Signals & Systems

Research Interests: AI & Machine Intelligence, Smart grids, Wide Area Control, Controller synthesis, and fault-tolerantcontrol systems

Education:

- Ph.D. JNTU Hyderabad 2022, Dept of Electrical & Electronics Engineering.
- M.Tech. (Control Systems), NIT Kurukshetra,2003
- B.E (Electronics & Power) Govt. College of Engg., Amravati University,1997.

Research / Selected Publications:

1. Nair, D.V., Murty, M.S.R. Fault tolerant-based virtual actuator design for wide-area damping control in power system. Electr Eng 103, 463–477 (2021). https://doi.org/10.1007/s00202-020-01094-4 Springer-Verlag (Science Citation Index, SCIE, Scopus)

2. Nair, D.V., Murty, M. Reconfigurable control as actuator fault-tolerant control design for power oscillation damping. Prot Control Mod Power Syst 5, 8 (2020). https://doi.org/10.1186/s41601-020-0151-3. Springer (SCIE, Scopus)

3. D. V. Nair and M. S. R. Murty, "Simplified robust damping control design of SVC in power system using LMI approach: Polytopic representation of operating conditions," 2017 International Conference on Technological Advancements in Power and Energy (TAP Energy), Kollam, 2017, pp. 1-6, doi: 10.1109/ TAPENERGY. 2017.8397307 (Scopus)

4. D. V. Nair and M. S. R. Murty, "Modal analysis of Power System and study of oscillatory instability," 2016 2nd International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT), Bangalore, 2016, pp. 667-672, doi: 10.1109/ICATCCT.2016.7912084.