



Viqar Yousuf

Assistant Professor

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About me

I am an Assistant Professor in the department of Electrical Engineering, Islamic University of Science and Technology. I am driven to constantly advance my skills and grow both professionally and personally. I am confident in my ability to connect with people, as I am an articulate speaker and an equally keen listener. Caring, hardworking, and committed to encouraging student progress and comprehension. I'm humorous, yet I'm also meticulous and disciplined. I am extremely passionate about both teaching and learning.

Skills

C and C++

LaTeX.

Public speaking.

Python programming.

MATLAB programming.

MATLAB Simulations.

(*)[The skill scale is from 0 (Fundamental Awareness) to 10 (Expert).]

Research

My research work includes all the major fields of electrical engineering. During my Ph.D., I have carried out the analyses of a power system problem (subsynchronous resonance), designed the control algorithms for power electronic devices (FACTS devices, such as STATCOM and UPFC) to alleviate subsynchronous resonance (SSR). I have also designed the solar PV-based STATCOM with a novel control design to provide reactive power compensation and mitigate SSR.

Education

- 2017-2021 Ph.D. Electrical Engineering National Institute of Technology Srinagar
Analysis and Assuagement of SSR using FACTS Devices in Power Systems.
- 2011-2016 B.Tech-M.tech Lovely Professional University
Majoring in Electrical and Electronics Engineering

Publications

- 2023 Enhanced Control Designs to Abate Frequency Oscillations in Compensated Power System
- 2021 Optimal design and application of fuzzy logic equipped control in STATCOM to abate SSR oscillations
- 2021 ADRC-based control strategies to alleviate SSR using STATCOM
- 2020 Neural Network Based Control Design to Extenuate Subsynchronous Resonance
- 2020 Unit Template Based Control Design for Alleviation and Analysis of SSR in Power System Using STATCOM
- 2019 Analysis and UTDQ Control Design for Alleviation of Subsynchronous Resonance Using STATCOM
- 2018 A Control Strategy for STATCOM in Alleviation of Subsynchronous Resonance in Power Systems
- 2016 Mitigation of subsynchronous resonance using UPFC with fuzzy logic control for power system stability

Experience

- 2021-2022 Department of Electrical Engineering. Islamic University of Science and Technology. Lecturer
- 2022-2023 Department of Electrical Engineering. University of Kashmir. Lecturer
- 2023... Department of Electrical Engineering. Islamic University of Science and Technology. Assistant Professor

Interests

Research

1. Control algorithms for FACTS devices.
2. MPPT design for Solar PV.
3. Electrical vehicle integration with grid.
4. Renewable energy based FACTS devices.
5. Realistic models for load frequency control.
6. Optimization techniques integrated with advanced control.
7. Fuzzy Logic Control.
8. Advanced Neural Network control.

Other

Chess, Poetry, Literature, History, etc.