

Zahid Farooq, Ph.D

Department of Electrical Engineering

National Institute of Technology Srinagar, J & K, India

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🌐 <https://scholar.google.com/citations?user=HboycC8AAAAJ&hl=en>

🌐 https://www.researchgate.net/profile/Zahid_Farooq4?ev=hdr_xprf

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Related experience

Experience



- Research work on power system control from past 5 years. The work was carried considering renewable energy sources and electric vehicle also. In addition to this, some novel controlling actions were developed and applied in such hybrid power systems. The hybrid power systems developed were tested for different parametric variations for sensitivity test.
- Was Actively involved in accreditation at National Institute of Technology Srinagar considering the criteria involving students performance during Ph.D.
- Teaching Assistantship of 4 years during Ph. D.
- Teaching experience for both undergraduate and graduate courses.
- Actively involved in writing and publish of research articles (Journals, Conferences, Book Chapters) from last 8 years.
- Actively involved as reviewer of many reputed journals, top-tier conferences and book chapters.
- MS Office (Word, Excel, Power point), L^AT_EX Software (For writing of research articles, presentation) , Internet Applications, Soft Computing techniques.

Employment History

- August 2023 - Present  **Assistant Professor (Contract)** at Islamic University of Science and Technology Awantipora, Jammu and Kashmir, India.
- Teaching different courses at Undergraduate level.
 - Guiding students for project work at par with industry standards.
 - Documentation and publishing the research work based on industry standards.
- March 2023 - August 2023  **Guset Faculty** at Islamic University of Science and Technology Kashmir, Jammu and Kashmir, India.
Subjects taught: Utilisation and Traction, Building Services
Lab works: Control System Lab.
- September 2018 - October 2022  **Research Fellow** at National Institute of Technology Srinagar, J & K, India.
- April 2017 - September 2018  **Assistant Professor (Contract)** at National Institute of Technology Srinagar, J & K, India.
Subjects taught: Basic Electrical Engineering, Utilisation and Traction, Electrical Machine Design, SCADA Systems
Lab works: Basic Electrical Engineering lab, power systems lab, Electric Machines lab.
- January 2017 - April 2017  **Assistant Professor (Contract)** at University of Kashmir, J & K, India.
Subjects taught: Electrical Machines
Lab works: Electric Machines lab.

Education

- 2018 – 2022  **Ph.D, Electrical Engineering- National Institute of Technology Srinagar (2022), Jammu & Kashmir, India.**

Research Publications

1. **ZAHID FAROOQ**, ASADUR RAHMAN, SHAMEEM AHMAD LONE, "Multi-Stage Fractional-order Controller for Frequency Mitigation of EV-based Hybrid Power System," *IETE Journal of Research (Taylor & Francis)*, 2022. , DOI: 10.1080/03772063.2022.2061609. **(SCIE)**
2. **ZAHID FAROOQ**, ASADUR RAHMAN, SHAMEEM AHMAD LONE, "Power generation control of restructured hybrid power system with FACTS and energy storage devices using optimal cascaded fractional-order controller," *Optimal Control Applications & Methods, Wiley*, 2022; e13083, doi:10.1002/oca.2850. **(SCIE)**

3. **ZAHID FAROOQ**, ASADUR RAHMAN, SHAMEEM AHMAD LONE, " Load frequency control of multi-source electrical power system integrated with solar-thermal and electric vehicle," *International Transactions on Electrical Energy Systems*, Wiley, 2021; <https://doi.org/10.1002/2050-7038.12918>. (SCIE)
4. **ZAHID FAROOQ**, ASADUR RAHMAN, SHAMEEM AHMAD LONE, " System dynamics and control of EV incorporated deregulated power system using MBO optimized cascaded ID-PD controller," *International Transactions on Electrical Energy Systems*, Wiley, 2021; <https://doi.org/10.1002/2050-7038.13100>. (SCIE)
5. **ZAHID FAROOQ**, ASADUR RAHMAN, S.M.S HUSSAIN, T. S. USTUN, " Power Generation Control of Renewable Energy Based Hybrid Deregulated Power System," *Energies*, MDPI, 2022; . <https://doi.org/10.3390/en15020517>. (SCIE)
6. **ZAHID FAROOQ**, ASADUR RAHMAN, SHAMEEM AHMAD LONE, "Frequency stabilization of hybrid power system using robust secondary controller," *Optimal Control Applications & Methods*, Wiley, 2023; doi: 10.1002/oca.3038. (SCIE)
7. **ZAHID FAROOQ**, SHEIKH SAFIULLAH, ASADUR RAHMAN, S. M. SUHAIL HUSSAIN AND TAHA SELIM USTUN, "Evaluating the Optimal Electric Vehicle Location for an Hybrid Energy System Controlled with novel Active Disturbance Rejection Controller," in *World Electric Vehicle Journal*, MDPI. (ESCI)
8. **ZAHID FAROOQ**, A.S. SIDDIQUI, AND AZIZ AHMAD, "Diagnosis and Revelation of Faults in Induction Motors Using Integrated Techniques" in *International Journal of Advanced Engineering Research and Science (IJAERS)*, <https://dx.doi.org/10.22161/ijaers/3.10.4>.
9. ANAB RASHID, SATISH SAINI, SHEIKH SAFIULLAH AND **ZAHID FAROOQ**, "System Dynamics and Frequency Regulation of a Multi-Area Power System Using an Optimal Controller" in *International Journal of Innovative Research in Engineering and Management (IJIREM)*, DOI: 10.55524/ijirem.2022.9.3.9.
10. SAMEEN AHMAD, SATISH SAINI, SHEIKH SAFIULLAH AND **ZAHID FAROOQ**, "Fuzzy Logic Based Load Frequency Control of Hybrid Power System Integrated with SMES" in *International Journal of Innovative Research in Engineering and Management (IJIREM)*, DOI: 10.55524/ijirem.2022.9.3.7.

Conference papers:

1. **ZAHID FAROOQ**, ASADUR RAHMAN AND SHAMEEM AHMAD LONE, "Fuzzy and MBO optimized Load Frequency Control of hybrid Power System," in *IEEE 18th India Council International Conference (INDICON)*, 2021, pp. 1-6, doi: 10.1109/INDICON52576.2021.9691624.
2. NADEEM AHMAD GANIE, ZEESHAN HAYAT RATHER ASADUR RAHMAN, **ZAHID FAROOQ**, "Economic feasibility of SPV integrated EV Charging Infrastructure for NIT Srinagar Institutional Campus in J/K, India," in *2023 International Conference on Power, Instrumentation, Energy and Control (PIECON)*, Aligarh, India, 2023, pp. 1-6, doi: 10.1109/PIECON56912.2023.10085893.
3. SHEIKH SAFIULLAH, ASADUR RAHMAN, **ZAHID FAROOQ**, "Techno-economic feasibility of Electric Vehicles for power system operations," in *9th International Conference in the Series of Youth 2025 Envisioning India's Future: (Growth, Innovation, Sustainability, Happiness & Wellbeing)*, February 17th - 19th, 2022.

4. **ZAHID FAROOQ**, SHEIKH SAFIULLAH AND ASADUR RAHMAN, "Load frequency control of hybrid power system using modified disturbance rejection controller," in *4th International Conference on Energy, Power and Environment (ICEPE 2022)*, 2022, pp. 1-6, doi: 10.1109/ICEPE55035.2022.9798040.

Book chapters:

1. AYMAN FAROOQ, KRISHNA TOMAR, **ZAHID FAROOQ**, Power System Load Frequency Control of Hybrid Integrated with Solar-Thermal and Geothermal System. In: *Recent Trends in Communication and Intelligent Systems*, Proceedings of ICRTCIS 202, Singapore. [https : DOI : //10.1007/978 – 981 – 19 – 1324 – 2₁₄](https://doi.org/10.1007/978-981-19-1324-2_14)
2. SHEIKH SAFIULLAH, ASADUR RAHMAN, **ZAHID FAROOQ**, "Techno-economic feasibility of Electric Vehicles for Power System Operations", in *Envisioning India's Future: Growth, Innovation, Sustainability, Happiness & Wellbeing*, Published by Bloomsbury, ISSN: 978-93-54358-06-7, pages: 102-111.
3. UZMA QUADIR, KRISHNA TOMAR, SHEIKH SAFIULLAH AND **ZAHID FAROOQ**, "Optimal Control Strategy for Performance Improvement of Hybrid Power System using Grey Wolf Optimised PIID Controller", In: *Rahul Srivastava and Aditya Kr. Singh Pundir (eds), New Frontiers in Communication and Intelligent Systems, SCRS, India*, 2021, pp. 37-45. <https://doi.org/10.52458/978-81-95502-00-4-5>.
4. PARISA KHAN, **ZAHID FAROOQ**, SHEIKH SAFIULLAH, SATISH SAINI, "Performance Comparison of Fuzzy Logic and Evolutionary Algorithm-Optimized Controller for a Multi-area Power System," In: *Pundir, A.K.S., Yadav, N., Sharma, H., Das, S. (eds) Recent Trends in Communication and Intelligent Systems. Algorithms for Intelligent Systems. Springer Singapore*, https://doi.org/10.1007/978-981-19-1324-2_10.

Miscellaneous Experience

Awards and Achievements

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| 2013 | 📌 | Got 2 nd best prize at Baba Ghulam shah Badshah University for Project Display, Rajouri, J & K, India. |
| 2018-2022 | 📌 | Recipient of MHRD (Govt. of India) fellowship for Ph.D in the Department of Electrical engineering, National Institute of Technology, Srinagar, J & K, India. |
| | 📌 | Runner Up at Cricket tournament organized by BGSB University |
| 2022 | 📌 | Awarded Second Best Paper for <i>Techno-economic feasibility of Electric Vehicles for power system operations</i> by 9th International Conference in the Series of Youth 2025 Envisioning India's Future: (Growth, Innovation, Sustainability, Happiness & Wellbeing). |

WORKSHOP / SEMINAR / TRAINING / STC attended

1. Workshop on PCB Designing at BGSB University, Rajouri, organized by Sciencetech learning 24th October-27th October, 2013.

2. Workshop on Embedded systems at BGSB University, Rajouri, organized by Sciencetech learning 28th October-30th October, 2013.
3. Workshop on Electric and Hybrid Vehicle Engineering, organized by Haritha TechLogix, 2022.
4. One-week Online Faculty Development Program on Soft Computing Techniques (SCT-2020) from 25-30 July' 2020.
5. Workshop on Smart Power and Energy Systems, organized by NIT Srinagar, 30th October-3rd November, 2020.
6. Workshop on Power system control-A smart approach, organized by NIT Srinagar, 11-15 December,2020.
7. Workshop on Renewable energy in science, engineering and technology, organized by NIT Srinagar, 1-5 July, 2019.
8. Workshop on Sciencetech and technical documentation using Latex, organized by NIT Srinagar, 8-9 July, 2019.
9. One-week short term course on "Advanced Control of Standalone Energy Systems" organized by Department of Electrical Engineering from 13th to 17th June, 2022.
10. Operation and maintenance of Gas Turbine Power Plant, Pulwama, Kashmir, J & K, India in 2013.

References

Available, if needed.