

Suhail Ahmad Suhail, Ph.D.

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Education

- 2017 – 2023 ■ **Ph. D. in Electrical Engineering, National Institute of Technology Srinagar, India**
20 Jan 2023 (Awarded).
Thesis title: *Robust Hybrid Active Disturbance Rejection Control Strategies for Linear and Nonlinear Uncertain Systems.*
- 2012 – 2016 ■ **Bachelor of Technology (B.Tech) in Electrical Engineering.**
Project title: *Observer Design in Stochastic Domain .*

Experience

- Worked as Lecturer (Contractual) at Institute of Technology, University of Kashmir, Zakura Campus from 23-03-2023 to 31-12-2023.

Research Publications

Journal Articles

- 1 S. A. Suhail, M. A. Bazaz, and S. Hussain, "Cruise Control of Autonomous Battery Electric Vehicle using Super Twisting Sliding Mode based Active Disturbance Rejection Control," en, *International Journal of Automation and Control*, vol. 17, no. 2, pp. 133–152, 2023, ISSN: 1740-7516, 1740-7524. [DOI: 10.1504/IJAAC.2022.10043968.](#)
- 2 S. A. Suhail, M. A. Bazaz, and S. Hussain, "Adaptive sliding mode-based active disturbance rejection control for a quadcopter," *Transactions of the Institute of Measurement and Control*, vol. 44, no. 16, pp. 3176–3190, 2022. [DOI: 10.1177/01423312221099366.](#)
- 3 S. A. Suhail, M. A. Bazaz, and S. Hussain, "Adaptive sliding mode-based active disturbance rejection control for vehicle suspension control," *Proceedings of the Institution of Mechanical Engineers. Part I: Journal of Systems and Control Engineering*, vol. 236, no. 8, pp. 1523–1533, 2022. [DOI: 10.1177/09596518221091342.](#)
- 4 S. A. Suhail, M. A. Bazaz, and S. Hussain, "Linear active disturbance rejection control with a higher order sliding mode observer applied to a cart inverted pendulum," *Mechatronic Systems and Control*, vol. 49, no. 4, pp. 220–227, 2021. [DOI: 10.2316/J.2021.201-0156.](#)
- 5 S. A. Suhail, M. A. Bazaz, and S. Hussain, "Mpc based active disturbance rejection control for automated steering control," *Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering*, vol. 235, no. 12, pp. 3199–3206, 2021. [DOI: 10.1177/09544070211004506.](#)
- 6 D. Rafiq, S. A. Suhail, and M. A. Bazaz, "Evaluation and prediction of covid-19 in india: A case study of worst hit states," *Chaos, Solitons and Fractals*, vol. 139, 2020. [DOI: 10.1016/j.chaos.2020.110014.](#)

Conference Proceedings

- 1 S. A. Suhail, M. A. Bazaz, and S. Hussain, "Optimal tuning based linear active disturbance rejection control applied to a quadcopter," 2022. [DOI: 10.1109/ICONAT53423.2022.9725873.](#)

- 2 S. A. Suhail, M. Bazaz, and S. Hussain, "Altitude and attitude control of a quadcopter using linear active disturbance rejection control," 2019, pp. 281–286. [URL: https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085476681&partnerID=40&md5=5fcf34c589d72856423c98259a0dda41](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85085476681&partnerID=40&md5=5fcf34c589d72856423c98259a0dda41).

Book Chapters

- 1 O. Farooq, S. Ahmad Suhail, and M. A. Bazaz, *Load frequency control of single and multi-area power systems based on adrc*, Singapore, 2023.
- 2 S. A. Suhail, M. A. Bazaz, and S. Hussain, *Optimal tuned linear active disturbance rejection control applied to a 2-dof robotic arm manipulator*, Lecture Notes in Networks and Systems, 2021. [DOI: 10.1007/978-981-33-4501-0_62](https://doi.org/10.1007/978-981-33-4501-0_62).
- 3 S. A. Suhail, M. A. Bazaz, and S. Hussain, *Active disturbance rejection control applied to a dc motor for position control*, Lecture Notes in Electrical Engineering, 2020. [DOI: 10.1007/978-3-030-30577-2_38](https://doi.org/10.1007/978-3-030-30577-2_38).

ACADEMIC ACHIEVEMENTS/ FELLOWSHIPS

- Five year Doctoral Fellowship grant from the Ministry of Education, Government of India for pursuing PhD.
- Qualified GATE 2017, GATE 2016.
- Qualified All India Engineering Entrance Examination 2012.
- Secured Rank-20 in JKBOSE Class-12th Examination.
- Secured Rank-1 in Talent Search Examination organised Baddi University of Emerging Sciences & Technology, HP in 2012.

Skills

- Languages [English, Hindi, Urdu, Kashmiri.](#)
- Coding [Python, L^AT_EX, C...](#)
- Hobbies [Teaching, Cricket, Gardening...](#)
- Misc. [Teaching assistance, L^AT_EX typesetting and publishing.](#)

References

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