



Dr. Mohammad Atif Siddiqui
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[Google Scholar Citation](#), | [Orcid Id](#), | [Scopus](#), | [Research gate](#), | [linked in](#)

PROFILE

- Highly self-motivated Ph.D. candidate with demonstrated research expertise in process control systems. Strong interpersonal skills
- Experimental techniques: Cascade Control, PID controller design, and Sliding Mode Control, Avionics system.
- Computer skills: LaTeX; PLC Ladder, MATLAB, Windows/Linux.

RESEARCH INTEREST:

- Controller design in improved control structure
- Robustness and performance analysis.
- Advance Control System Engineering.

PROFESSIONAL MEMBERSHIP:

- Member of IEEE

COURSE TAUGHT:

- Advance Control System
- Modern Control System
- Bio Control Systems
- Industrial Automation

ADMINISTRATIVE/DEPARTMENTAL RESPONSIBILITY

- **Chairperson**, MoU Coordination Cell, Integral University, Lucknow.
- **Head**, Department of Electrical Engineering Since August 2023.
- **Convenor** of departmental FDP organization committee.
- **Convenor** of departmental Refresher Course organization committee

STUDENTS SUPERVISION

- B. Tech.: 01
- M. Tech.: 03
- PhD. (Supervisor) : 03 (Pursuing)
- PhD. (Co-Supervisor) : 02 (Pursuing)

PUBLISHED/GRANT PATENTS

- OPAM- OPTIMAL PARKING ALLOCATION MODEL. (**Application Number: 202311067294, Published**)
- SPV based salinity measuring instrument for water analysis. (**Application Number: 202411014879, Published**)
- 1-DEGREE OF FREEDOM LABORATORY HELICOPTER FOR CONTROL SYSTEM APPLICATION. (**Application Number: 202411066524, Published**)
- AUTOMATIC DRUG DELIVERY SYSTEM FOR MEAN ARTERIAL BLOOD PRESSURE CONTROL. (**Application Number: 202411022105, Published**)

PUBLISHED/ACCEPTED SCI/SCOPUS RESEARCH PAPERS

- M. A. Siddiqui, Nishat Anwar, M. & Haque Laskar, S. (2023). Sliding mode controller design based on simple closed loop set point experiment for higher order processes with dead time. *International Journal of Chemical Reactor Engineering*, 21(7), 845-857. <https://doi.org/10.1515/ijcre-2022-0134>
- M.A. Siddiqui, Anwar, M.N. and, S.H. Laskar , "Cascade controllers design based on model matching in frequency domain for stable and integrating processes with time delay", *COMPEL - The international journal for computation and mathematics in electrical and electronic engineering*, Vol. 41 No. 5, pp. 1345-1375. <https://doi.org/10.1108/COMPEL-06-2021-0185>
- M. A. Siddiqui, M. N. Anwar, S. H. Laskar, and M. R. Mahboob, "A unified approach to design controller in cascade control structure for unstable, integrating and stable processes," *ISA Transactions*, pp. 1–16, 2020, doi: 10.1016/j.isatra.2020.12.038. (SCIE).
- M. A. Siddiqui, M. N. Anwar, and S. H. Laskar, "Enhanced control of unstable cascade systems using direct synthesis approach," *Chemical Engineering Sciences*, 232, pp. 116322, 2021, doi: 10.1016/j.ces.2020.116322. (SCIE).
- M. A. Siddiqui, M. N. Anwar, and S. H. Laskar, "Sliding mode controller design for second-order unstable processes with dead-time," *Journal of Electrical Engineering*, 71, no. 4, pp. 237–245, 2020, doi: 10.2478/jee-2020-0032. (SCIE).
- M. A. Siddiqui, M. N. Anwar, S. H. Laskar, M. Shamsuzzoha, and M. R. Mahboob, "Closed Loop Tuning of Cascade Controllers Based on Setpoint Experiment," *Journal of Engineering research*, 8, no. 4, pp. 117–138, 2020, doi: 10.36909/jer.v8i4.8492. (SCIE).
- M. A. Siddiqui, M. N. Anwar, and S. H. Laskar, "Tuning of PIDF Controller in Parallel Control Structure for Integrating Process with Time Delay and Inverse Response Characteristic," *Journal*

- of Control, Automation and Electrical Systems**, 2008, 2020, doi: 10.1007/s40313-020-00603-x. (ESCI).
- M. A. Siddiqui, MN Anwar, SH Laskar "A Model-Free Sliding Mode Controller for Higher-order Unstable and Stable Process.", **International Journal of Chemical Reactor Engineering**, 2022, <https://doi.org/10.1515/ijcre-2022-0134>. (SCIE).
 - M. A. Siddiqui, M. N. Anwar, and S. H. Laskar, "Cascade controllers design based on model matching in frequency domain for stable and integrating processes with time delay," **COMPEL - Int. J. Comput. Math. Electr. Electron. Eng.**, vol. ahead-of-p, no. ahead-of-print, 2022, doi: 10.1108/compel-06-2021-0185. (SCI)
 - M. A. Siddiqui, M. N. Anwar, and S. H. Laskar, "Control of nonlinear jacketed continuous stirred tank reactor using different control structures," **Journal Process Control**, vol. 108, pp. 112–124, 2021, doi: 10.1016/j.jprocont.2021.11.005. (SCI)
 - Akhlaque Ahmad Khan, Ahmad Faiz Minai and **Mohammad Atif Siddiqui** 2024. Feasibility and Techno-Economic Assessment of 128kWpGrid-Tied Photovoltaic System using HOMER Pro **J. Phys.: Conf. Ser.** 2777 012008. IOP Publishing Ltd. <https://doi.org/10.1088/1742-6596/2777/1/012008>. (SCOPUS)

PAPER PUBLISHED IN INTERNATIONAL CONFERENCES

- (M. A. Siddiqui and S. A. Akhtar, "Control of Hybrid Electric Vehicle Speed by using Model Matching and Pole Placement Technique," **2022 2nd International Conference on Emerging Frontiers in Electrical and Electronic Technologies (ICEFEET)**, Patna, India, 2022, pp. 1-5, doi: 10.1109/ICEFEET51821.2022.9847818.
- M. A. Siddiqui, A. F. Minai, A. A. Khan, F. I. Bakhsh, M. A. Hussain and R. K. Pachauri, "Genetic Algorithm Based SPV System with Cascaded H-Bridge Multilevel Inverter," **2023 International Conference on Power, Instrumentation, Energy and Control (PIECON)**, Aligarh, India, 2023, pp. 1-6, doi: 10.1109/PIECON56912.2023.10085864.
- M. A. Siddiqui, M.N. Anwar A.F. Minai, A.A. Khan, M. Naseem and A. Jabbar, "A Direct Synthesis based Sliding Mode Control of a Nonlinear Continuous Stirred Tank Reactor", **2022 IECON 48th Annual Conference of the IEEE Industrial Electronics Society, Brussels, Belgium**, October 17-20, 2022.
- M. A. Siddiqui, S. H. Laskar, M.N. Anwar and M. Naseem, "A Model-Free PI / PID Controller based on Direct Synthesis Approach to achieve Disturbance Rejection", **2019 IECON 45th Annual Conference of the IEEE Industrial Electronics Society, Lisbon, Portugal**, October 13-17, 2019.
- M. A. Siddiqui, M.N. Anwar and S. H. Laskar, "PID Controller Tuning of Cascade Control Systems using Frequency Response Matching and Dominant Pole Placement Method", **2020 IEEE 19th International Power Electronics and Motion Control Conference (PEMC), Gliwice, Poland**, 20th & 24th April 2021. **Accepted and presented.**
- M. A. Siddiqui, M.N. Anwar, S. H. Laskar and A. Yadav, "Cascade Controller Design Based on Pole Placement and Model Matching Technique.", Conference: **International Conference on Emerging Electronics & Automation (E2A) 2021, NIT Silchar, India**, January 06-01, 2022.

- M. A. Siddiqui, S. H. Laskar and M.N. Anwar, "A Simple Tuning Approach for PID Controller based on Direct Synthesis and Root-locus.", **2019 IEEE 3rd International Conference on Computing Methodologies and Communication (ICCMC)**, Surya Engineering College (SEC), Erode, India, May 11-13, 2019.
- M. A. Siddiqui, M.N. Anwar, S. H. Laskar and A. Yadav, "PIDA Controller Design for Higher Order Stable Process with Inverse Response Characteristic.", **2018 IEEE 3rd International Conference on Computational and Characterization Techniques in Engineering and Sciences**, CCTES, Integral University, Lucknow, India, September 06-08, 2018.
- Minai, A.F., M. A. Siddiqui, Laskar, S.H., Khan, A.A., Pachauri, R.K. (2024). Performance Evaluation and Assessment of 100 kW Grid-Tied SPV System in Subtropical Climatic Conditions. In: Gabbouj, M., Pandey, S.S., Garg, H.K., Hazra, R. (eds) Emerging Electronics and Automation. **E2A 2022. Lecture Notes in Electrical Engineering**, vol 1088. Springer, Singapore. https://doi.org/10.1007/978-981-99-6855-8_27

PUBLISHED NON-SCI-SCOPUS BUT PEER REVIEWED RESEARCH PAPERS

- M. A. Siddiqui. Design of Parallel Cascade Controller for Nonlinear Continuous Stirred Tank Reactor ,21 May 2024, PREPRINT (Version 1) available at **Research Square** [<https://doi.org/10.21203/rs.3.rs-4393821/v1>]
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