

# Appendix A

## List of publications

### A.1 Journal papers

- Vijay Kumar Singh, Shyam Kamal and Sandip Ghosh, “Predefined-Time Adaptive Backstepping Control for a Class of Nonlinear Dynamical Systems with Parametric Uncertainties,” in *International Journal of Adaptive Control and Signal Processing*, 2024, doi: 10.1002/acs.3745.
- Vijay Kumar Singh and Shyam Kamal, “Prescribed-Time Adaptive Backstepping Control of an Uncertain Nonlinear 2-DOF Helicopter,” in *IEEE Transactions on Circuits and Systems II: Express Briefs*, 2023, doi: 10.1109/TC-SII.2023.3267944.
- Vijay Kumar Singh, Shyam Kamal and Sandip Ghosh, “Prescribed-Time Constrained Feedback Control for an Uncertain Twin-Rotor Helicopter,” in *Aerospace Science and Technology*, vol. 140, 108483, 2023.
- Vijay Kumar Singh, Shyam Kamal, Sandip Ghosh and Thach N. Dinh, “Neuroadaptive Prescribed-Time Consensus of Uncertain Nonlinear Multi-Agent Systems,” in *IEEE Transactions on Circuits and Systems II: Express Briefs*, 2023, doi: 10.1109/TCSII.2023.3303026.
- Vijay Kumar Singh, Shyam Kamal, Bijnan Bandyopadhyay Sandip Ghosh and Thach N. Dinh, “Prescribed-Time Optimal Control of Nonlinear Dynamical Systems with Application to a Coupled Tank System,” in *IEEE Transactions on Automation Science and Engineering*, 2024, doi: 10.1109/TASE.2023.3349068.

- **Vijay Kumar Singh**, Shyam Kamal, Sandip Ghosh “**Adaptive Prescribed-Time State Estimation and Robust Control for DC-DC Boost Converters**,” in *IEEE Transactions on Circuits and Systems II: Express Briefs*, 2023, (Under Review).

## A.2 Conference papers

- **Vijay Kumar Singh**, Parijat Prasun, Bhawana Singh Shyam Kamal and Sandip Ghosh, “**Neural Network Control based Stabilization of Nonlinear Systems in Arbitrary Time**,” in *2021 47th Annual Conference of the IEEE Industrial Electronics Society*, Toronto, ON, Canada, pp. 1-6, 2021.
- **Vijay Kumar Singh**, Parijat Prasun, Kallol Chatterjee, Shyam Kamal, Sandip Ghosh and Bijnan Bandyopadhyay, “**Optimal Sliding Mode Control with Predefined Upper Bound of Settling Time**,” in *2022 16th International Workshop on Variable Structure Systems (VSS)*, Rio de Janeiro, Brazil, pp. 260-265, 2022.
- **Vijay Kumar Singh**, Shyam Kamal, Ankit Sachan and Sandip Ghosh, “**Prescribed-Time Adaptive Constraint Control of an Uncertain Nonlinear 2-DOF Helicopter**,” in *22nd IFAC World Congress*, Yokohama, Japan, pp. 1-6, 2023.

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