

Dr. VINODH KUMAR E

LIST OF PUBLICATIONS

1. Joshua Sunder David Reddipogu, Vinodh Kumar Elumalai, "Hardware in the Loop Testing of Adaptive Inertia Weight PSO-Tuned LQR Applied to Vehicle Suspension Control", Journal of Control Science and Engineering, 2020.
2. Vimala Kumari Jonnalagadda, Vinodh Kumar Elumalai, Harvir Singh, Amit Prasad, "Nonlinear control design using Takagi-Sugeno fuzzy applied to under-actuated visual servo system", Transactions of the Institute of Measurement and Control, 2020.
3. Vimala Kumari Jonnalagadda, Vinodh Kumar Elumalai, Shantanu Agrawal, "Current cycle feedback iterative learning control for tracking control of magnetic levitation system", Transactions of the Institute of Measurement and Control, Vol.42, Issue 3, pp. 543-550, 2020.
4. R. R. Das, S. Kakkad and E. Vinodh Kumar, "Diesel Engine Control and Protection Monitoring using PID Controller," 2019 Innovations in Power and Advanced Computing Technologies (i-PACT), Vellore, India, pp. 1-6, 2019.
5. Rashmi Ranjan Das, Vinodh Kumar Elumalai, Raaja Ganapathy Subramanian, Kadiyam Venkata Ashok Kumar, "Adaptive predator-prey optimization for tuning of infinite horizon LQR applied to vehicle suspension system", Applied Soft Computing, Vol.72, pp. 518-526, 2018.
6. Raaja Ganapathy Subramanian, Vinodh Kumar Elumalai, "Discrete-time setpoint-triggered reset integrator design with guaranteed performance and stability", ISA transactions, Vol.81, pp. 155-162, 2018.
7. Elumalai Vinodh Kumar, Subramanian Raaja Ganapathy, Reddipogu Joshua Sunder David, Srinivasan Soundarya, Agrawal Shantanu, "Enhanced IMC synthesis for tracking control of magnetic levitation system", Archives of Electrical Engineering, Vol.67(2), pp. 293-306, 2018.
8. Raaja Ganapathy Subramanian, Vinodh Kumar Elumalai, "Multi-loop nonlinear control design for performance improvement of LTI systems", ISA transactions, Vol. 70, pp. 132-138, 2017.
9. Raaja Ganapathy Subramanian, Vinodh Kumar Elumalai, Selvakumar Karuppusamy, Vamsi Krishna Canchi, "Uniform ultimate bounded robust model reference adaptive PID control scheme for visual servoing", Journal of the Franklin Institute, Vol.354, Issue 4, pp. 1741-1758, 2017.
10. Vinodh Kumar Elumalai, Raaja Ganapathy Subramanian, "A new algebraic LQR weight selection algorithm for tracking control of 2 DoF torsion system" Archives of Electrical Engineering, Vol. 66, Issue 1, pp. 55-75, 2017.
11. Raaja Ganapathy Subramanian, Vinodh Kumar Elumalai, "Robust MRAC augmented baseline LQR for tracking control of 2 DoF helicopter", Robotics and Autonomous Systems, Vol. 86, pp. 70-77, 2016.
12. Elumalai Vinodh Kumar, Ganapathy Subramanian Raaja, Jovitha Jerome, "Adaptive PSO for optimal LQR tracking control of 2 DoF laboratory helicopter", Applied Soft Computing, Vol. 41, pp. 77-90, 2016.
13. Karthick S., Jerome J., Vinodh Kumar E., Raaja G. APSO Based Weighting Matrices Selection of LQR Applied to Tracking Control of SIMO System. In: Nagar A., Mohapatra D., Chaki N. (eds) Proceedings of 3rd International Conference on

Advanced Computing, Networking and Informatics. Smart Innovation, Systems and Technologies, Vol 43, 2016.

14. V Ramesh, T Sivakumar, VRS Kumar, "Influence of accommodation on farrowing behaviour in Large White Yorkshire gilts", Indian Journal of Animal Production and Management, Vol. 31, Issue 3/4,pp. 68-72,2015.