

### **Publications of Dr.E.Vinodh Kumar**

1. Joshua Sunder David Reddipogu and **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, Volume-2020, Oct 2020.
2. 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.
3. Vimala Kumari Jonnalagadda, **Vinodh Kumar Elumalai** , Harvir Singh and Amit Prasad,” Nonlinear control design using Takagi-Sugeno fuzzy applied to under-actuated visual servo system”, Transactions of the Institute of Measurement and Control, Vol 42, Issue 15,pp.1-15, 2020
4. Rashmi Ranjan Das, Surbhi Kakkad, **Vinodh Kumar E**,” Diesel Engine Control and Protection Monitoring using PID Controller” Innovations in Power and Advanced Computing Technologies (i-PACT),Vol. 1,pp. 1-6, 2019
5. Rashmi Ranjan Das, **Vinodh Kumar Elumalai**, RG Subramanian, KVA 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. RG 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. **Vinodh Kumar Elumalai**, VK Prasath, BK Ahamed, R Gupta, SK Mohapatra,” Takagi Sugeno Fuzzy for Motion Control of Ball on Plate System, Recent Findings in Intelligent Computing Techniques,Vol.2, pp.425-433,2018
8. **Vinodh Kumar Elumalai** ,Joshua Sunder David Reddipogu, Santosh Kumar Vaddi, Gowtham Pasumathy,” ILC-PIV Design for Improved Trajectory Tracking of Magnetic Levitation System”, volume 719, pp 91-98, 2018.
9. **Vinodh Kumar Elumalai**, SR Ganapathy, RJS David, S Soundarya, A Shantanu,” Enhanced IMC synthesis for tracking control of magnetic levitation system”, Archives of Electrical Engineering, VOL. 67, Issue.2, pp. 293–306, 2018.
10. **Vinodh Kumar Elumalai**, RG 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. RG Subramanian, **Vinodh Kumar Elumalai**, S Karuppusamy, VK 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.
12. RG Subramanian, **Vinodh Kumar Elumalai**,”Multi-loop nonlinear control design for performance improvement of LTI systems”, ISA transactions, Vol. 70, pp. 132-138, 2017.
13. **Vinodh Kumar Elumalai**, GS Raaja, J Jerome,” Adaptive PSO for optimal LQR tracking control of 2 DoF laboratory helicopter”, Applied Soft Computing, Vol. 41, pp. 77-90, 2016.
14. RG 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.

