

Dr.S.Denis Ashok

Professor

Design & Automation

School of Mechanical Engineering

Vellore Institute of Technology

Vellore – 632014

Email : denisashok@vit.ac.in

Journal Paper Publications

1. Bragadeshwaran Ashok, Sathiaselalan **Denis Ashok**, Chidambaram Ramesh Kumar, Chellappan Kavitha, 2019, “Neural Network Based Virtual Sensor for Throttle Valve Position Estimation in a SI Engine”, SAE- Technical Paper, Issue: 2018-28-0080.
2. Umashankar Lath, Sanyam Kakkar, Aman Agarwal, Bragadeshwaran Ashok, Vemuluri Ramesh Babu, Sathiaselalan **Denis Ashok**, Chellappan Kavitha, 2019, “**Modelling and Validation of a Control Algorithm for Yaw Stability & Body Slip Control Using PID & Fuzzy Logic Based Controllers**”, SAE Technical Paper, Issue: 2019-28-0054.
3. Srivani Anbu, Arunkumar Thangavelu, **S Denis Ashok**, 2019, “Fuzzy C-Means Based Clustering and Rule Formation Approach for Classification of Bearing Faults Using Discrete Wavelet Transform”, Journal of Computation, Volume 7 , Issue 4 , Pages 54.
4. C Kavitha, S Abinav Shankar, K Karthika, B Ashok, **S Denis Ashok**, 2019, “Active camber and toe control strategy for the double wishbone suspension system” , Journal of King Saud University-Engineering Sciences, Volume 31, Issue 4 , Pages 375-384.
5. R Manish, **S Denis Ashok**, “Energy-Efficient Illumination Control Using Image Parameters in a Machine Vision Environment for Optimum Surface Texture Identification”, 2018, Advances in Systems, Control and Automation, Springer , Pages 165-179.
6. TC Kanish, S Narayanan, P Kuppan, **S Denis Ashok**, “Investigations on wear behavior of Magnetic Field Assisted Abrasive Finished SS316L material”, 2018, Materials Today: Proceedings, Volume 5, Issue 5 , Pages 12734-12743.

7. C Kavitha, **S Denis Ashok**, B Ashok, Kaisan Muhammad Usman, Shishir Sirohi, Sandeep Singh, Abhinav Ashok Samsi, TC Kanish, “Automatic Gear Shifting Mechanism for a Sequential Transmission System for an Electric Vehicle”,2018, Materials Today: Proceedings,Elsevier, Volume 5 , Issue 5 , Pages 11442-11451.
8. S Ramesh, **S Denis Ashok**, Shanmukha Nagaraj, CR Adithyakumar, M Lohith Kumar Reddy, Niranjana Kumar Naulakha, 2018, “**Design of An Energy Efficient Hydraulic Regenerative circuit**”,2018, IOP Conference Series: Materials Science and Engineering, Volume 310, Issue 1 .
9. S Ramesh, **S Denis Ashok**, Shanmukha Nagaraj, M Lohith Kumar Reddy, Niranjana Kumar Naulakha, CR Adithyakumar,2018, “Energy conservation strategy in Hydraulic Power Packs using Variable Frequency Drive IOP Conference Series: Materials Science and Engineering”, Volume 310, Issue 1 , Pages 012041.
10. S Ramesh, **S Denis Ashok**, Niranjana Kumar Naulakha, CR Adithyakumar, M Lohith Kumar Reddy, Sai Kiran Reddy, 2018, “Energy Efficient Hydraulic Clamping System using Variable Frequency Drive in a CNC Machine”, IOP Conference Series: Materials Science and Engineering, Volume 376, Issue 1, Pages 012124.
11. B Ashok, **S Denis Ashok**, C Kavitha, “Closed Loop Throttle Opening Angle Estimation Strategy by Considering Torque Demands from SI Engine”, 2018, SAE- Technical Paper, Issue: 2018-28-0079.
12. C Kavitha, S Abinav Shankar, B Ashok, **S Denis Ashok**, Hafiz Ahmed, Muhammad Usman Kaisan, 2018, “**Adaptive suspension strategy for a double wishbone suspension through camber and toe optimization**”, Journal of Engineering Science and Technology , Volume 21, Issue 1 , Pages 149-158.
13. R Manish, Adigopula Venkatesh, **S Denis Ashok**, 2018, “Machine Vision Based Image Processing Techniques for Surface Finish and Defect Inspection in a Grinding Process”, Materials Today – Proceedings , Volume 5, Issue 5 , Pages 12792-12802.
14. K Nantha Gopal, B Ashok, K Senthil Kumar, R Thundil Karuppa Raj, **S Denis Ashok**, Vignesh Varatharajan, Vivek Anand, 2018, “Performance analysis and emissions profile of cottonseed oil biodiesel–ethanol blends in a CI engine” , Journal of Biofuels, Volume 9,Issue 6 , Pages 711-718.
15. S Ramesh, **S Denis Ashok**, Shanmukha Nagaraj, 2018, “An Energy Conservation Strategy using variable frequency drive for a Hydraulic clamping system in a CNC Machine” , Materials Today –Proceedings , Volume 5 , Issue 5 , Pages 13504-13513.

16. C Kavitha, **S Denis Ashok**, 2017, "A new approach to spindle radial error evaluation using a machine vision system" , Journal of Metrology and Measurement Systems, Volume 24, Issue 1 , Pages 201-209.
17. TC Kanish, S Narayanan, P Kuppan, **S Denis Ashok**, 2017, "Investigations on the finishing forces in Magnetic Field Assisted Abrasive Finishing of SS316L" , Journal of Procedia Engineering , Volume 174, Pages 611-620.
18. B Ashok, **S Denis Ashok**, C Ramesh Kumar, 2017, "Trends and future perspectives of electronic throttle control system in a spark ignition engine" , Annual Reviews in Control, Volume 44, Pages 97-115.
19. Neelkantha Banerjee, Abhishek Kumar, Nitin Mohan, B Ashok, C Kavitha, **S Denis Ashok** , "Estimation of position of electromechanical actuator valve using Kalman filter" , 2017 ,IEEE, Innovations in Power and Advanced Computing Technologies (i-PACT), Pages 1-6
20. Surabhi S Sanap Devunoori Manikanta, **S Denish Ashok** , Juttiga Suresh, Anish B Nair, "Design of Robotic Sewing Machine System", 2017, International Journal for Research in Applied Science & Engineering Technology, Volume 5 , Issue 12 , Pages 1763-1766.
21. Jayachandran Jayachandran, **Denis Ashok**, 2016, "Neural Network Based Approach for the Generation of Road Feel in a Steer-By-Wire System" , Engineering Journal , Volume 20 , Issue 5 , Pages 49-66.
22. B .Ashok, **S Denis Ashok**, C Ramesh Kumar, 2016, "A review on control system architecture of a SI engine management system" , Annual Reviews in control, Volume 41 , Pages 94-118.
23. B Ashok, **S Denis Ashok**, C Ramesh Kumar, 2015, "LPG diesel dual fuel engine–A critical review" , Alexandra Engineering Journal , Volume 54, Issue 2 , Pages 105-126.
24. V Abhijith, M Antony Richard, Renjith Ravi, **S Denis Ashok**, B Ashok, 2015, "Fuzzy logic based fuel flow control system in a dual– fuel diesel engine, Indian Journal of Science and Technology, Volume 8 , Issue S2, Pages 96-100.
25. TC Kanish, P Kuppan, S Narayanan, **S Denis Ashok**, 2015, "Experimental investigations and parametric analysis of magnetic field assisted abrasive finishing of SS316L" , International Journal of Manufacturing Technology and Management, Volume 29, Issue 1-2, Pages 78-95.

26. S Krishna, S Narayanan, **S Denis Ashok**, 2014, “Control of yaw disturbance using fuzzy logic based yaw stability controller” , International Journal of Vehicular Technology , Volume 2014.
27. S Krishna, S Narayanan, **S Denis Ashok**, 2014, “Fuzzy logic based yaw stability control for active front steering of a vehicle” , Journal of Mechanical Science and Technology, Volume 28 , Issue 12 , Pages 5169-5174.
28. S Senthil Kumar, **S Denis Ashok**, 2014, “Development of acoustic emission and motor current based Fuzzy Logic model for monitoring weld strength and nugget hardness of FSW joints” Procedia Engineering , Volume 97, Pages 909-917.