

List of Papers / Publications of Dr.P.V. Manivannan (2015 to 2020)

1. Sharma, Kirti Shankar, and P. V. Manivannan. "Stereo Image Partitioning Based Fuzzy Logic." International Journal of Mechanical Engineering and Robotics Research 9.8 (2020).
2. Diwakar, Aneesh D., and P. V. Manivannan. "Differential Flatness Based LQR Control of a Magnetorheological Damper in a Quarter Car Semi-active Suspension System." International Journal of Mechanical Engineering and Robotics Research 9.7 (2020).
3. Diwakar, Aneesh D., and P. V. Manivannan. "Symmetrised dot pattern technique for fault diagnosis in a spur gear assembly using vibration signals." IOP Conference Series: Materials Science and Engineering. Vol. 561. No. 1. IOP Publishing, 2019.
4. Ranade, Sushrut, and P. V. Manivannan. "Quadcopter Obstacle Avoidance and Path Planning Using Flood Fill Method." 2019 2nd International Conference on Intelligent Autonomous Systems (ICoIAS). IEEE, 2019.
5. Maradkar, Mayuresh S., and P. V. Manivannan. "Trajectory Planning and Gait Analysis for the Dynamic Stability of a Quadruped Robot." Smart Innovations in Communication and Computational Sciences. Springer, Singapore, 2019. 259-271.
6. Sekar, Ramanan, et al. "Modified Extended Kalman Filter Using Correlations Between Measurement Parameters." Computational Intelligence: Theories, Applications and Future Directions-Volume I. Springer, Singapore, 2019. 603-615.
7. Rane, Siddhesh, and P. V. Manivannan. "Optimization of Software Controlled Remote Center of Motion Manipulator for Maximum Isotropy." 2018 International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering (ICRIEECE). IEEE, 2018.
8. Sekar, Ramanan, et al. "Use of measurement noise correlations for an improved SONAR model." 2017 International Conference on Technological Advancements in Power and Energy (TAP Energy). IEEE, 2017.
9. Chandramouli, Aaditya, and P. V. Manivannan. "Inverse dynamics of different upright postures for the developed bio-inspired reconfigurable robot." 2018 3rd International Conference on Control and Robotics Engineering (ICCRE). IEEE, 2018.
10. Manivannan, P. V., and Pulidindi Ramakanth. "Vision Based Intelligent Vehicle Steering Control Using Single Camera for Automated Highway System." Procedia computer science 133 (2018): 839-846.

11. Sharma, Kirti Shankar, Sudepta Ranjan Sahoo, and P. V. Manivannan. "A Hybrid Vision System for Dynamic Obstacle Detection." *Procedia computer science* 133 (2018): 153-160.
12. Maradkar, Mayuresh Sadashiv, and P. V. Manivannan. "Kinematics and multi-body dynamics of a bio-inspired quadruped robot with nine linked closed chain legs." 2016 International Conference on Robotics: Current Trends and Future Challenges (RCTFC). IEEE, 2016.
13. Suresh, P., and P. V. Manivannan. "Human driver emulation and cognitive decision making for autonomous cars." 2016 International Conference on Robotics: Current Trends and Future Challenges (RCTFC). IEEE, 2016.
14. Ramgopal, Iyer Abhiram, and P. V. Manivannan. "Development of multi-sensor data fusion technique for the automated Bus Rapid Transport System." 2016 International Conference on Robotics: Current Trends and Future Challenges (RCTFC). IEEE, 2016.
15. Prakash, R., and P. V. Manivannan. "Simplified node decomposition and platoon head selection: a novel algorithm for node decomposition in vehicular ad hoc networks." *Artificial Life and Robotics* 22.1 (2017): 44-50.
16. Maradkar, Mayuresh Sadashiv, Aaditya Chandramouli, and P. V. Manivannan. "Bio-inspired Reconfigurable Robot: Conceptual Design of an All-terrain Robot Capable of Transforming from an Erect to Sprawling Posture." *Proceedings of the 3rd International Conference on Mechatronics and Robotics Engineering*. 2017.
17. Vishal, D., and P. V. Manivannan. "Design and analysis of active vibration and stability control of a bio-inspired quadruped robot." *International Journal of Computational Vision and Robotics* 7.6 (2017): 712-722.
18. Kumar, N., et al. "Development of a solenoid actuated planar valveless micropump with single and multiple inlet–outlet arrangements." *Journal of Micromechanics and Microengineering* 26.7 (2016): 075013.
19. Vishal, Dayalan, and Pudureddiyur Venkataraman Manivannan. "Multi-body dynamics simulation and gait pattern analysis of a bio-inspired quadruped robot for unstructured terrains using adaptive stroke length." *Artificial Life and Robotics* 21.4 (2016): 493-499.
20. Sahu, R. K., Somashekhar S. Hiremath, and P. V. Manivannan. "Ultrasonic technique for concentration characterization of copper nanofluids synthesized using μ -EDM: A novel experimental approach." *Powder Technology* 284 (2015): 429-436.