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**Last 5 Year publications:**

1. G. Shanmugasundar, S. Sri Sabarinath, K. Ramesh Babu, M. Srividhya, 2021 “ Analysis of occupational health and safety measures of employee in material manufacturing industry using statistical methods “ Materials Today: Proceedings, <https://doi.org/10.1016/j.matpr.2020.11.296>.
2. **G Shanmugasundar**, M Dharanidharan, D Vishwa, A Jayaprakash and P Abimanyu , 2020, “Design and Finite Element Analysis of Prosthetic Hand Controlled by Wireless Gestures for Differently-abled People” IOP Conference Series: Materials Science and Engineering 923 (2020) 012019 IOP Publishing, Doi:10.1088/1757-899X/923/1/012019.
3. **G. Shanmugasundar**, G. Fenneth Moses, S. Jayachandran, V.D. Rathnavel Subramanian and R. Rajagopalan, 2020 “Design and Fabrication of Solar Powered Multi-Purpose Agricultural Vehicle with IOT Control” , Journal of Advanced Research in Dynamical and Control Systems, Volume 12, Pages: 1928-1933.
4. **G Shanmugasundar** , M Vanitha , L Ganesh Babu , P Suresh , P Mathiyalagan , G Sai Krishnan and Mebratu Makos, 2020 , “Fabrication and analysis of mechanical properties of PVC/Glass fiber/graphene nano composite pipes” , Material Research Express , <https://doi.org/10.1088/2053-1591/abc277>.
5. **G Shanmugasundar**, R Sivaramakrishnan, S Meganathan, S Balasubramani ‘**Structural Optimization of an Five Degrees of Freedom (T-3R-T) Robot Manipulator Using Finite Element Analysis,**’ Elsevier Materials Today: Proceedings, Volume 16, Part 2, 2019, Pages 1325-1332.
6. S.M. Abishek, **G. Shanmugasundar**, Mathesh , Sriram 2019 ‘ Design, Analysis and Development of Autonomous Underwater vehicle ‘International Journal of Innovative Technology and Exploring Engineering (IJITEE) , Vol.09., PP 3805-3810.

7. G Shanmugasundar, P Jagadeeshwar, S Adithya, V Nagappan, M Bhaskar 2019 , ‘Design, Fabrication And Analysis Of Personal Vacuum Assisted Climber’, Journal of Physics: Conference Series, Volume 1362.
8. **G Shanmugasundar**, B Karthikeyan, P Santhosh Ponvell, V Vignesh ‘,Optimization of Process Parameters in TIG Welded Joints of AISI 304L - Austenitic Stainless Steel using Taguchi’s Experimental Design Method’, Elsevier Materials Today: Proceedings, Volume 16, Part 2, 2019, Pages 1188-1195.
9. **G.Shanmugasundar**, G&Sivaramakrishnan, R 2017, ‘Analytical and software method of Workspace Analysis for a Seven Degrees of Freedom Inspection Robot’, International Journal of Control Theory and Applications, vol. 10, no. 11, pp. 19-28, ISSN: 0974-5572. (Impact Factor: 0.53).
- 10.**Shanmugasundar, G&Sivaramakrishnan**, R 2016, ‘Design and Analysis of a newly developed Seven Degree of Freedom Robot for Inspection’, International Journal of Control Theory and Applications, vol. 9, no. 24, pp. 393-402, ISSN: 0974-5572.) (Impact Factor: 0.53).
- 11.Shanmugasundar, G &Sivaramakrishnan, R 2015, ‘Computer Aided Stress and Deflection Analysis of Inspection Robot at Different Postures’, Applied Mechanics and Materials, vols. 813-814, pp. 1052-1057, ISSN: 16609336. (Impact Factor: 0.113).
- 12.Shanmugasundar, G, Sivaramakrishnan, R, Sridhar, R &Rajmohan, M 2015, ‘Computer Aided Modelling and Static Analysis of an Inspection Robot’, Applied Mechanics and Materials, vol. 766, pp. 1055-1060. ISSN: 16609336. (Impact Factor: 0.113).
- 13.Shanmugasundar, G, Rajmohan, M, &Sivaramakrishnan, R 2015, ‘Computer Aided Modelling and Design of Mechanical Configuration of an Inspection Robot’, Applied Mechanics and Materials, vol. 766, pp. 1015-1020, ISSN: 16609336 .

14. Shanmugasundar, G., Sivaramakrishnan, R., "Computer aided modelling and simulation of a generic robot for inspection", International Journal of Applied Engineering Research, Vol. 10, No. 24, pp. 44049-44056, 2015.