SRM TRP Engineering College,Trichy

Department of Mechanical Engineering

Faculty Profile

Name :	Dr.V. Senthilkumar					
DateofBirth :	01.09.1978					
Highest Qualification:	Ph.D					
DateofJoining :	03.12.2012					
Designation :	Associate Professor					
Dateofpromotion (PresentDesignation):	01.12.2021					
AreaofInterest :	Non-Traditional Machining, Artificial Intelligence Optimization Techniques					
MobileNo :	+91-94887 26768		EmailID :	Senthilkumar.v@trp.srmtrichy.edu.in		
Experience :	Teaching:	20 yrs	Industry :	-	Research:	-
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AssociationwithProfessionalBodies

Name (Professional Body)	Indian Society for Technical Education [ISTE]	The Institution of Engineers (India) [IEI]	SAE INDIA
Type of Membership	Life member	Associate Member	Member
Membership No.	LM 58630	AM099433-5	7210410395

Research

Ph.DGuidance					
Supervisor /GuideshipNo.:	4020013	University:	Anna University	No. of Scholars:	-

Publication*			
International Journals :	21	National Journals :	10
International Conference :	13	NationalConference:	02
ProjectGrants(Researchprojectsguidedorundertaken/SponsoredProjects)			
Received(Amount) :	-	Applied(Amount) :	19,35,000
Patent			
Published :	04	Granted :	

Books

Published :	3

FDPs/STTPs/Workshops/Seminarsetc.,

FDP		STTP		Workshop		Seminar		Others	
Attended:	22	Attended:	02	Attended:		Attended:	10	Attended:	
Organized:	1	Organized:	-	Organized:	03	Organized:	2	Organized:	

Onlinecourses(NPTEL,MOOCetc.)	**10**

***List of Publications:**

Journals

1. “Advanced Optimization of Surface Characteristics and Material Removal Rate for Biocompatible Ti6Al4V Using WEDM Process with BBD and NSGA II”, Materials 2023, 16, 4915. ttps://doi.org/10.3390/ma16144915 (Web of Science, SCI and Scopus indexed with impact factor of 3.4).
2. “Thermal Adsorption and Corrosion Characteristic Study of Copper Hybrid Nanocomposite Synthesized by Powder Metallurgy Route”, Adsorption Science & Technology, Volume 2023, 1-9. https://doi.org/10.1155/2023/5305732 (SCI Journal with impact factor of 4.373)
3. “Comparative Regression and Neural Network Modeling of Roughness and Kerf Width in CO 2 Laser Cutting of Aluminium”, Tehnički vjesnik, 28, 5(2021), 1437- 1441. https://doi.org/10.17559/TV-20190130153849 (SCI Journal with impact factor of 0.864)
4. “Hybrid neural network-particle swarm optimization algorithm and neural network- genetic algorithm for the optimization of quality characteristics during CO 2 laser cutting of aluminium alloy”, (DOI: 10.1007/s40430-019-1830-8), Journal of the Brazilian Society of Mechanical Sciences and Engineering, 41, 328 (2019). https://doi.org/10.1007/s40430-019-1830-8 (SCI Journal with impact factor of 2.361)
5. “Parametric Investigation and Modelling of Hardness and Surface Quality in CO 2 Laser Cutting Process of AISI 314 Stainless Steel”, Journal of New Materials for Electrochemical Systems, Vol. 20 No. 3, July 2017, 101 – 107. https://doi.org/10.14447/jnmes.v20i3 (SCI Journal with impact factor of 1.316)
6. “Grey Relational Analysis (GRA) for optimization of CO 2 laser cutting of stainless steel”, Materials Today: Proceedings, 72, 2023. 2437-2442. https://doi.org/10.1016/j.matpr.2022.09.439 (Scopus Indexed Journal with impact factor of 1.46)
7. “Coronary artery disease prediction based on optimal feature selection using improved artificial neural network with meta-heuristic algorithm”, Journal of Theoretical and Applied Information Technology, 100(24), 2022. 4771-4782. (Scopus Indexed Journal with impact factor of 0.59)
8. “ An Integrated ANN – GA Approach to Maximise the Material Removal Rate and Surface Roughness of Wire Cut EDM on Titanium Alloy ”, Advances in Materials and Processing Technologies, 2020. https://doi.org/10.1080/2374068X.2020.1793267 (Scopus Indexed Journal with impact factor of 2.37)
9. “Application of Grey Relational Analysis for Optimization of Kerf quality during CO 2 laser cutting of Mild Steel”, Materials Today: Proceedings, Vol 5, 2018, 19209–19215. https://doi.org/10.1016/j.matpr.2018.06.276 (Scopus Journal with impact factor of 1.46)
10. "Optimization of aluminum alloy by CO 2 laser cutting using genetic algorithm to achieve surface quality", IOP Conference Series: Materials Science and Engineering, 1055 (2021) 012123, https://doi.org/10.1088/1757-899X/1055/1/012123 (Scopus Journal with impact factor of 0.48)

11. “Experimental Investigation and Analysis of Laser Cutting Process Parameters”, International Journal of Applied Engineering Research, 10 (78), (2015), 74-77. (Scopus Indexed Journal with impact factor of 1.30)
12. “Parametric Analysis of Laser Cutting of Mild Steel Material” published in Journal of Chemical And Pharmaceutical Sciences (JCPS), Volume 10 (1), January 2017, 385-388.
13. “Experimental Investigation and Parametric Analysis of CO2 Laser cutting of Stainless Steel”, Middle-East Journal of Scientific Research, 25 (4), 2017, 804- 811
14. “Parametric Investigation of CO 2 Laser Cutting Process Of Stainless Steel”, International Journal of Innovative Research In Technology, 4(1), 2017, 170-175.
15. “Investigation of CO 2 Laser Cutting Process Parameters For Aluminium”, International Journal of Innovative Research In Technology, 4(1), 2017, 176-180. 16. “State of Art of Laser Cutting Process”, International Journal for Modern Trends in Science and Technology, 3(4), 2017, 76-80.
17. “Analysis and Optimization of Laser Machining Parameters”, International Journal of Innovative Research in Science, Engineering and Technology, Special Issue 5, Vol 5, 2016
18. “Experimental Investigation and Analysis of Process Parameters for Laser Cutting Process”, International Journal of Innovative Research in Science, Engineering and Technology, Special Issue 5, Vol 5, 2016
19. “Experimental Investigation and Effect of Flux Core Arc Welding (FCAW) Processes on Different Parameters on En36”, International Journal of Innovative Research in Science, Engineering and Technology, Special Issue 5, Vol 5, 2016
20. “Experimental Investigation on Process Parameters during Turning Process of Mild Steel ”, International Journal of Innovative Research in Science, Engineering and Technology, Special Issue 5, Vol 5, 2016
21. “Laser cutting process – A Review”, International Journal Of Darshan Institute On Engineering Research & Emerging Technologies, Vol. 3, No. 1, 2014, pp. 44-48.
22. “A Throughput Time Study on Gemba through ABC Analysis for High Demand Product among Varieties

of Products", IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE), ISSN: 2278-1684 Volume 5, Issue 1 (Jan. - Feb.
2013), PP 57-59.
23. "Parametric Investigation of Process Parameters for Laser Cutting Process", International Journal of Innovative Research in Science, Engineering and Technology, Vol. 4, Issue 5, May 2015, pp 2773 – 2779.
24. "State of the art of micro turning process", International journal of emerging technology and advanced engineering, International Journal of Emerging Technology and Advanced Engineering, Volume 2, Issue 2, Feb. 2012, pp 36-42.