




Faculty Profile

Name	: Dr. V. Senthilkumar			
Date of Birth	: 01.09.1978			
Highest Qualification	: M.E., Ph.D			
Date of Joining	: 03.12.2012			
Designation	: Associate Professor			
Date of promotion (Present Designation)	: 01.11.2021			
Area of Interest	: Non-Traditional Machining, Artificial Intelligence Optimization Techniques			
Mobile No	: +91 9488726768	Email ID	: senthilkumar.v@trp.srmtrichy.edu.in	
Experience	: Teaching : 20Yrs & 6Mths	Industry	: NA	Research : 4 yrs
Address (for Communication)	: CM2, C Block, Shankar Abodes (Phase- II), Kumbakonam Salai Thiruvanaikovil, Trichy – 620005			

Association with Professional Bodies

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

Research

Ph. D Guidance				
Supervisor / Guide ship No. :	4020013	University :	Anna University	No. of Scholars : -
Publication				
International Journals :	23 (5 SCI, 2 Wos, 5 Scopus)	National Journals :	01	
International Conference :	17	National Conference :	02	
Reviewer				
Journals :	02	Conferences :	01	
Project Grants (Research projects guided or undertaken/ Sponsored Projects)				
Received (Amount) :	-	Applied (Amount) :	82,23,000	
Patent				
Published :	05	Granted :	-	

Books

Published :	3
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FDPs / STTPs / Workshops / Seminars etc.,

FDP		STTP		Workshop		Seminar		Others	
Attended :	11	Attended :	02	Attended :	02	Attended :	-	Attended :	-
Organized :	01	Organized :	-	Organized :	02	Organized :	02	Organized :	02

Online courses (NPTEL, MOOC etc.)	14
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***List of Publications :**

23. "Advanced Optimization of Surface Characteristics and Material Removal Rate for Biocompatible Ti6Al4V Using WEDM Process with BBD and NSGA II", *Materials* 2023, 16, 4915. <https://doi.org/10.3390/ma16144915> (Web of Science, SCI and Scopus indexed with impact factor of 3.4).
22. "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> (Web of Science, SCI and Scopus indexed with impact factor of 4.373)
21. "Grey Relational Analysis (GRA) for optimization of CO2 laser cutting of stainless steel", *Materials Today: Proceedings*, 72, 2023. (Scopus indexed with impact factor of 2.59).
20. "Artificial Neural Network Prediction of Optimal Phenolic acid Adsorption using Lantana camara Activated Carbon", *Oriental Journal of Chemistry*, 39 (1), 2023 (WoS Q4 journal with impact factor 0.09).
19. "Oxidation of few Substituted Phenols and Reaction Mechanism by Heterocyclic Pyrazinium Chlorochromate and It's Biological Activity" *Oriental Journal of Chemistry*, 39 (1), 2023 (WoS Q4 journal with impact factor 0.09).
18. "Comparative Regression and Neural Network Modeling of Roughness and Kerf Width in CO2 Laser Cutting of Aluminium", *Tehnički vjesnik*, 28, 5(2021), 1437-1441. (Web of Science, SCI and Scopus indexed with impact factor of 0.864).
17. "Hybrid neural network-particle swarm optimization algorithm and neural network-genetic algorithm for the optimization of quality characteristics during CO2 laser cutting of aluminium alloy", (DOI: 10.1007/s40430-019-1830-8), *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, 2019, ISSN: 1678-5878 (print version), ISSN: 1806-3691 (online version). (Web of Science, SCI and Scopus indexed with impact factor of 2.361).
16. "Parametric Investigation and Modelling of Hardness and Surface Quality in CO2 Laser Cutting Process of AISI 314 Stainless Steel", *Journal of New Materials for Electrochemical Systems*, Vol. 20 No. 3, July 2017, 101 – 107. (Web of Science, SCI and Scopus indexed with impact factor of 1.316)
- 15 "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*, (DOI: 10.1080/2374068X.2020.1793267), 2020. (Scopus indexed with impact factor of 4.73).
14. "Application of Grey Relational Analysis for Optimization of Kerf quality during CO2 laser cutting of Mild Steel", *Materials Today: Proceedings*, Vol 5, 2018, pp. 19209–19215. (Scopus indexed with impact factor of 2.59)
13. "Optimization of aluminum alloy by CO2 laser cutting using genetic algorithm to achieve surface quality", *IOP Conference Series: Materials Science and Engineering*, 1055 (2021) 012123, doi:10.1088/1757-899X/1055/1/012123. (Listed in Scopus - Impact factor for the journal is 0.543)
12. "Experimental Investigation and Analysis of Laser Cutting Process Parameters", *International Journal of Applied Engineering Research*, ISSN 0973-4562 Vol. 10 No.78 (2015), 74-77. (Scopus indexed with impact factor of 0.354).
11. "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. (Journal listed in Annexure – II of Anna University).
10. "Experimental Investigation and Parametric Analysis of CO2 Laser cutting of Stainless Steel", *Middle-East Journal of Scientific Research*, 25 (4), 2017, 804-811 (Journal listed in Annexure – II of Anna University).
9. "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.
8. "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
7. "Laser cutting process – A Review", *International Journal Of Darshan Institute On Engineering Research & Emerging Technologies*, Vol. 3, No. 1, 2014, pp. 44-48.
6. "Experimental Investigation and Analysis of Laser Cutting Process Parameters", *International Journal of Applied Engineering Research*, ISSN 0973-4562 Vol. 10 No.78 (2015), pp 74-77 (Annexure – II)
5. "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.

4. "Analysis and Optimization of Laser Machining Parameters", International Journal of Innovative Research in Science, Engineering and Technology, Special Issue 5, Vol 5, 2016
3. "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
2. "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
1. "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