Dr.M.Shunmugasundaram,
2/75,Chinnapatti, Kancharampettai(Post),
Madurai, Tamilnadu – 625014,
India.
Email: sundarprithiv@gmail.com
Mo.No. 9942287210, 9573458720

Objective

To disseminate knowledge, interact with students, and deliver value-based quality education, work in a highly challenging position that helps me evolve into a vital contributor, towards the students and organization's growth.

(I) AcademicQualifications

- Ph.D., Mechanical Engineering, Anna University, Chennai. (March 2017).
- M.E., (Manufacturing), Jeyaram College of Engineering and Technology, Trichy (June 2009).
- B.E., (Mechanical Engineering), Sethu Institute of Technology, Virudunagar (April 2002).

(II) WorkExperiences

(a) Teaching –18 Years

(i) Mohamed Sathak A.J. College of Engineering, Chennai
Period : September 2022 – Till date
Designation : ***Professor & Head***
Responsibilities : Research and Development, Teaching

(ii)CMR Technical Campus, Hyderabad
Period : July2017 – August 2022
Designation : ***Professor***
Responsibilities : Research and Development, Teaching.

(iii) Vickram College of Engineering, Sivagangai
Period : January 2017 – May 2017
Designation : ***Associate Professor***
Responsibilities : Research and Development, Teaching.

(iv) Vickram College of Engineering, Sivagangai
Period : January 2009 – December 2016
Designation : ***Assistant Professor***
Responsibilities : Teaching and Research

(v) Vickram College of Engineering, Sivagangai
Period : Jun 2002 – Aug 2007
Designation :***Lecturer***
Responsibilities :Teaching

(b) AdministrativeResponsibility

Designation : ***Convener, ED Cell***
Period : Sep 2018 – Aug2022
Responsibilities: Intensive Training, Incubation centre incharge

Designation : ***Assistant HOD***
Period : Sep 2011 – May 2017
Responsibilities: Academic activities, Intensive Training, Project Coordinator, Scholarships

Designation : ***ISO Coordinator – MechanicalDept***
Period : Jan 2009 – May 2017
Responsibilities: Managing ISOActivities.

Designation : ***NBA Coordinator – MechanicalDept***
Period : Feb 2012 – Aug 2022
Responsibilities: Managing NBA activities.

Designation : ***NAAC Coordinator – Mechanical Dept***
Period : February 2012 – Aug 2022
Responsibilities: Managing NAACActivities.

Designation : ***Class Advisor***
Period : June 2009 – June 2017
Responsibilities: Mentor for the Class, Monitoring the students, Performance, Disciplinary actions, Parent teacher communications

(III) Funded Projects /Grants

Project Title	:Development of Bio-Degradable Prosthetic Limbs Using 3D-Printing For MomentDisability People
Funding Agent	: **Department of Science and Technology (DST)**
D.O.No	: **SEED/TIDE/2018/109**
Cost	: Rs.35.90,316/-
Period	:Two Years
Status	:Completed

(IV) Journal Published

(List attached at end)

(V) Patent Registered

Published a Patent as the first inventor on the title “Extract the Fuel from Plastic Waste” via application number Application No.202141016935 A.

Published a Patent as one of the inventor on the title “Design and Development of Advanced Semi-Automatic TIG Welding Machine” via application number Application No.202041034923 A.

(VI) Reviewer Committee

- Reviewer, Journal of Industrial Textiles, Sage Publications
- Reviewer, Progress in Industrial Ecology, Inderscience Publications
- Reviewer, International Journal of Manufacturing Technology and Management, Inderscience Publications
- Reviewer, Materials Today: Proceedings, Elsevier Publications
- Reviewer, International Journal of Services and Operation Management, Inderscience Publications
- Reviewer, Advances in Materials & Processing Technologies, Taylor and Francis

(VII) Events Organized

- Organized one-week online Student Development Programme on "**Shaping the Future with Composite Materials"**from 27th - 31st July 2020.
- OrganizedOne Week Online Faculty Development Programme on **"Emerging Research Areas in Mechanical Engineering"** from 27thJune to 03rd July 2020.
- Organized Two days **"Entrepreneurship Awareness Camp"** in association with **JNTUH, Hyderabad** form 07th – 08th November 2019.
- Organized Twenty-five days **"Start and Improve Your Business (SIYB)"** in association with **CITD, Hyderabad** from 07 November 2019 to 18 December 2019.
- "**Faculty Development Program on Optimization on Process Parameters by Linear Regression using MATLAB**" Convener, CMR Technical Campus, 13th – 18thMay 2019.
- "**HedNxt- Start Up Fest 2018"** Convener / EDC, CMR Technical Campus, 10 Septemper 2018.
- **"Awareness on Sustainable Development of Non-Conventional Energy Sources"** Organizing Secretary, Vickram College of Engineering, 24 & 25 February2017.
- "**Recent Trends in Non Destructive Techniques**" Organizing Secretary, Vickram College of Engineering, 9 & 10 Septemper2016.
- "**International Conference on Interdisciplinary Engineering and Sustainable Management Sciences2015**"Steering&OrganizingCommittee,VickramCollegeofEngineering,10-11Apr 2015.
- "**EntrepreneurshipAwarenessCamp**"JointlyOrganisedbyMinistryHumanResourc es Development and Anna University Regional Office, Madurai, 22-23 July2014.
- "**FacultyDevelopmentProgramonSPSSinOptimizationTechniques**"Organizin g Secretary, Vickram College of Engineering, 18 June2014.
- "**WorkshoponOptimizationUsingStatisticalTools**"OrganizingSecretary,VickramColleg e of Engineering, 22 & 23 Nov2013.
- "**Faculty Training Program on Structural & Thermal Analysis using Ansys12.0**" at Vickram College of Engineering, 17 – 21December 2013.
- "**International Conference on Interdisciplinary Engineering and Sustainable Management Sciences 2013"** Steering & Organizing Committee, Vickram College of Engineering, 22-23 Feb 2013.

(VIII) Conferences attended

- Presented a research paper titled **"Optimization of machining parameters by Taguchi approach for machining of aluminium based metal matrix composite by abrasive water jet machining process"** International Conference on Technology and Innovation in Mechanical Engineering organized by Sagar Institute of Science & Technology, Bhopal held on 10th& 11thMay, 2021**.**
- Presented a research paper titled **"Investigation on the Effect of Nano Fillers on Tensile Property of Neem Fiber Composite Fabricated by Vacuum Infused Molding Technique"** International Conference on Research and Advances in Mechanical Engineering organized by Vignan Institute of Technology and Science, Hyderabad held on 10th & 11th December, 2020**.**
- Presented a research paper titled **"Experimental Investigation and Pocess Parameter Optimization on Mechanical Properties of Friction Stir Butt Welded Joints of Dissimilar Alloys"** International Conference (ICDMC2019) held at Vel Tech University, Chennai, 28 & 29 March 2019**.**
- Presented a research paper titled **"Design and Implementation of Cellular Manufacturing Technique in Small Scale Industry" International conference held at Anna University Chennai 6-8 Jan 2014.**
- Presented a research paper titled **"Study of Virtual Cellular Manufacturing Systems"** National Conference held at Hindustan College of Engineering and Technology, CBE, 3 & 4March 2011**.**

(IX) Short Term CourseAttended

- One Week Faculty Development Program on**Simulation of Welds and Optimization Techniques, ATAL, AICTE**, India
- One Week Faculty Development Program on**Managing Online Classes and Co-Creating Moocs:2.0,** MHRD Government of India
- One Week Faculty Development Program on **Outcome Based Education and Accreditation**, IILM College of Engineering and Technology
- One Week Faculty Development Program on **Teach the Teacher – Outcome Based Education**, CMR Technical Campus
- Wipro Sponsored **Training Program on Innovating Teaching Methodologies – Mission10X**
- **Nationla Summit on Quality in Education** at Infosys Limited,Bangalore
- **A Hub of Knowledge &Innovationat NIMHANS** Convection Centre,Bangalore
- One Week Faculty Development Program on **LaTeX**, Sanjay Ghodawat University
- One Week Faculty Development Program on **LaTeX andit's applications for Researchers,** Vidyavardhaka College of Engineering
- One Week Faculty Development Program on **ICT Tools**, SreeVidyanikethan Engineering College
- One Week Faculty Development Program on **Manufacturing of Composites**, Swayam - NPTEL
- One Week Faculty Development Program on **Industrial Safety Engineering**, Swayam - NPTEL
- One Week Faculty Development Program on **Matlab for Numerical Computation**, Swayam - NPTEL
- One Week Faculty Development Program on **Research Methodologies: Tools and**

Techniques, IILM College of Engineering and Technology

- One Week Faculty Development Program on **Insights into Quality Research and Innovation**, ViveKanandha College of Engineering for Women
- One Week Faculty Development Program on **Advances in Manufacturing and Optimization Techniques**, Jayamukhi Institute of Technological Sciences.
- One Week Faculty Development Program on Research **Methodology,** Malla Reddy Engineering College for Women
- One Week Faculty Development Program on **Additive Manufacturing: The Research Scopes and Future Trends**, Santhiram Engineering College
- One Week Faculty Development Program on **Design Services in Advanced Manufacturing,** Mahaveer Institute of Science and Technology
- One Week Faculty Development Program on **Research Trends in Mechanical Engineering,** Gudlavalleru Engineering College
- One Week Faculty Development Program on **MATLAB based Teaching-Learning in Mathematics, Science& Engineering,** DY Patil University
- Two Week Faculty Development Program on **Entrepreneurship**, Sphoorthy Engineering College, Hyderabad.
- Work shop on **ANSYS**held at A.V.C.College of Engineering,Mayiladudurai
- **Solar Energy Conversion with Nanoprticles** at VCET,Madurai
- **Genetic Algorithm and Particle Swarm Optimization:Hands on Training Using MATLAB** at Anna University, Regional Office,Coimbatore
- **Meta – Heurisicsand its Applications**atVCE,Sivagangai
- **Nationla Summit on Quality in Education** at Infosys Limited,Bangalore

(X) MOOC's Course

Name of the Course	Certified by	Award
Industrial Safety Engineering	SWAYAM -NPTEL	**85 % (Elite)**
Manufacturing of Composites	SWAYAM -NPTEL	**81 % (Elite)**
Matlab Programming for Numerical Computation	SWAYAM -NPTEL	**68%**
Advanced Manufacturing Process Analysis	Coursera – The State University of NEW York	Completed
Digital Manufacturing & Design	Coursera – The State University of NEW York	Completed
Cyber Security in Manufacturing	Coursera – The State University of NEW York	Completed
Advanced Manufacturing Enterprise	Coursera – The State University of NEW York	Completed

(XI) Projects Guided

- UG Projects: 55
- PG Projects: 06

(XII) Personal skills

- Ability to perform well as an individual and as a part of the team.
- Punctual and dedicated.
- Ability to finish work before deadlines.
- Amicable & adaptable person.
- Willingness to learn.

(XIII)Membership of professional bodies

- MISTE
- MIET

(XIV) Computer Proficiency

Operating systems : Windows8/7/2k/98/95, DOS,Unix, Linux
Programming Skill : CNC Fanuc Controller
Modelling : Pro/E Creo/Wildfire.AutoCAD
Optmization : DOE Softwares
Others : MS Office.

(XV) SubjectsHandled

UG:

- Additive Manufacturing Technology
- EngineeringThermodynamics
- Thermal Engineering
- Heat and MassTransfer
- Gas Dynamics and JetPropulsion
- Power PlantEngineering
- Computer IntegratedManufacturing
- Strength ofMaterials
- Process Planning and CostEstimation
- Process Planning andControl
- Advanced ICEngines
- Basic Civil & MechanicalEngineering
- Engineering Mechanics
- Design of Machining Members – I
- Design of Machining Members – II
- Production Planning and Control
- Unconventional machining Processes

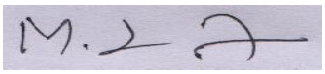
(XVI) Personal Details

Name	:	M.SHUNMUGASUNDARAM
Father's Name	:	S.MANOHARAN
Mother's Name	:	S.PONNAMAL
Born	:	25th May1981
Nationality	:	Indian
Sex	:	Male
Marital Status	:	Married
Language Known	:	

Languages	To Read	To Write	To Speak
Tamil	✓	✓	✓
English	✓	✓	✓

Declaration

I declare that the information furnished above is true and best of my knowledge and belief, I assure that I will be loyal to the institution and do my duties sincerely.



(M.Shunmuasundaram)

List of Journals published

1. **M.Shunmugasundaram,** S. M. Nagarajan, Yadi Reddy, Prem Kumar Chaurasiya, Anil Kumar and UpendraRajak, " An Experimental Study and Joining Parameters Optimization of Friction StirWeld Butt Joint by Taguchi Approach to Maximize the Mechanical Properties",Arabian Journal for Science and Engineering**,** **https://doi.org/10.1007/s13369-021-06352-6 (SCI Indexed)**
2. P Anand, D Rajesh, **M ShunmugaSundaramand** V Anbumalar, "Finite Element Analysis of Hemp Fiber Reinforced Cellulose Filled Epoxy Hybrid Composite', Journal of Natural Fibers, https://doi.org/10.1080/15440478.2021.1982809**(SCI Indexed)**
3. **M.Shunmugasundaram**, A. Praveenkumar, L. PonrajSankar and S. Sivasankar (2021) "Effect of tin oxide coatings by spray pyrolysis process on mechanical properties of aluminium, brass and mild steel", International Journal of Vehicle Structures and Systems, 13(2), pp. 195-199.**(Scopus indexed)**
4. **M.Shunmugasundaram**, A. Praveenkumar, L. PonrajSankar and S. Sivasankar (2021) "A study on material removal rate and surface roughness of abrasive water jet machining process on hybrid metal matrix composites using response surface methodology", International Journal of Vehicle Structures and Systems, 13(2), pp. 200-205.**(Scopus indexed)**
5. A.Praveenkumar, **M.Shunmugasundaram**, L. PonrajSankar and S. Sivasankar (2021) "Effect of multi-walled carbon nano tubes on the quasi-static lateral crushing characteristics of hybrid glass/basalt fabric reinforced epoxy tubes", International Journal of Vehicle Structures and Systems, 13(2), pp. 206-209.**(Scopus indexed)**
6. **M.Shunmugasundaram**, R. Kamalakannan, V.Anbumalar, and D.Maneiah (2020) "Machine cell formation and part family identification by combined algorithm", Progress in Industrial Ecology, 14(3-4), pp. 200-211.**(Scopus indexed)**
7. **M.Shunmugasundaram** and V.Anbumalar, (2020) "Cellular layout formation by using weighted similarity-based modified flow matrix with process sequence data", International Journal of Manufacturing Technology and Management, 34(1), pp. 61-77.**(Scopus indexed)**
8. **M.Shunmugasundaram**, D. Maneiah, M. Lingampalle, C.Nagaraj and P.Patil (2019) "An optimization of process parameters for stir cast aluminium metal matrix composites to improve material removal rate", International Journal of Mechanical and Production Engineering Research and Development,9(5), pp. 951-960.**(Scopus indexed)**
9. **M.Shunmugasundaram**, V.Anbumalar, P.Anand, P.Sivakumar and S.Nagarajan (2019) "Design of cellular manufacturing system for power press industry to reduce total travelling time by hybrid algorithm", International Journal of Services and Operations Management 34 (2), pp.141-158. **(Scopus indexed)**
10. **M.Shunmugasundaram**, A.Praveen Kumar and D.Maneiah (2019) "An experimental analysis and process parameter optimization on friction stir welded dissimilar alloys", International Journal of Mechanical Engineering & Technology, 9(2), pp. 407-414.**(Scopus indexed)**
11. P.Anand, D. Rajesh, **M.Shunmugasundaram** and I. Saranraj (2019) "Thermal efficiency enhancement using a ceramic coating on the cylinder liner and the piston head of the IC engine", International Journal of Ambient Energy, https://doi.org/10.1080/01430750.2019.1611639. **(Scopus indexed)**

12. A.Praveen Kumar and **M.Shunmugasundaram** (2018) "An axial crushing characteristics of hybrid kenaf/glass fabric wrapped aluminium capped tubes under static loading", International Journal of Mechanical and Production Engineering Research and Development, 8(6), pp.201-206.**(Scopus indexed)**
13. **M.Shunmugasundaram**, D.Maneiah and CH.Nagaraju (2018) "Design and analysis of functionally graded cylindrical shell by applying static and buckling load" International Journal of Mechanical Engineering & Technology, 9(11), pp. 1808-1821.**(Scopus indexed)**
14. **M.Shunmugasundaram**, D.Maneiah and RajanikanthKoora (2018) "Design and Implementation of Cellular Manufacturing System in Medium Scale Industry by Traditional Methods" International Journal of Mechanical Engineering & Technology, 9(8), pp. 678-686.**(Scopus indexed)**
15. **M.Shunmugasundaram** and D.Maneiah (2018) "Wastage Minimization and Manufacturing Cost Reduction Raw Edge Cogged Belts by Lean Manufacturing Method" International Journal of Mechanical Engineering & Technology, 9(7), pp. 565–574.**(Scopus indexed)**
16. **M.Shunmugasundaram**and V.Anbumalar (2016) "Design of Cellular Manufacturing System By Using New Similarity Coefficient Algorithm To Reduce Total Traveling Time", Asian Journal of Information Technology, 15 (10), pp.1539 - 1546.**(Scopus indexed)**
17. **M.Shunmugasundaram**, V Anbumalar and P Anand(2016) "Cell Formation and part family Identification by Using Traditional Methods", Applied Mechanics and Materials, 854, pp.121-126.
18. **M.Shunmugasundaram**, V Anbumalarand P Anand(2016) "Cell Formation and Part Family Identification by Using Combined Algorithm", World Applied Sciences Journal, 34(10), pp. 1276 -1280.
19. **M.Shunmugasundaram**and V Anbumalar(2015) "Cell Formation by Using Traditional Methods to reduce Total Traveling Time in Medium Scale Industry" International Journal of Applied Engineering Research, 10 (20), pp. 20103 – 20112.
20. R.Kamalakannan, C. Ramesh, **M.Shunmugasundaram**, P. Sivakumar, P. and A.Mohamed, (2020), "Evaluvation and selection of suppliers using TOPSIS", Materials Today: Proceedings, 33, pp. 2771-2773.**(Scopus indexed)**
21. S.Sivasankar, L.P. Sankar, A.P Kumar and **M.Shunmugasundaram** (2020) "Strengthening of square hollow steel sections using carbon fibre reinforced polymer strips subjected by compression , Materials Today: Proceedings 27, pp. 877-882. **(Scopus indexed)**
22. **M.Shunmugasundaram**, A. Praveenkumar, N.K.Amudhavalli and S.Sivasankar (2020) Parametric optimization on tensile strength of friction stir butt joints of dissimilar aa6061 and aa5052 aluminium alloys by taguchi technique, Materials Today: Proceedings, 27, pp. 1258-1262. **(Scopus indexed)**
23. L.P. Sankar, S.Sivasankar, **M.Shunmugasundaram** and A.P. Kumar (2020) "Predicting the polymer modified ferrocement ultimate flexural strength using artificial neural network and adaptive network based fuzzy inference system", Materials Today: Proceedings, 27, pp. 1375-1380.**(Scopus indexed)**
24. A.P.Kumar, **M.Shunmugasundaram**, S. Sivasankar and L.P. Sankar (2020) "Static axial crushing response on the energy absorption capability of hybrid Kenaf/Glass fabric cylindrical tubes", Materials Today: Proceedings, 27, pp. 783-787.**(Scopus indexed)**

25. D.Maneiah, **M.Shunmugasundaram**, A.R. Reddy and Z.Begum (2020) "Optimization of machining parameters for surface roughness during abrasive water jet machining of aluminium/magnesium hybrid metal matrix composites", Materials Today: Proceedings, 27, pp. 1293-1298.**(Scopus indexed)**
26. A.P.Kumar, **M.Shunmugasundaram**, S. Sivasankar and L.P. Sankar (2020) "Numerical analysis on the axial deformation and energy absorption behaviour of tri-tubular structures", Materials Today: Proceedings, 27, pp. 866-870. **(Scopus indexed)**
27. **M.Shunmugasundaram**, A.P. Kumar, L.P. Sankar and S.Sivasankar (2020), "Optimization of process parameters of friction stir welded dissimilar AA6063 and AA5052 aluminum alloys by Taguchi technique", Materials Today: Proceedings, 27, pp. 871-876.**(Scopus indexed)**
28. S.Sivasankar, L.P. Sankar, A.P Kumar and **M.Shunmugasundaram** (2020) "Crushing strength of square hollow steel tubular sections externally jacketed by carbon fibre reinforced polymer strips", Materials Today: Proceedings, 27, pp. 1263-1267.**(Scopus indexed)**
29. **M.Shunmugasundaram**, M.A.Alibaig and M. Ajay Kumar (2020) "A review of bio-degradable materials for fused deposition modeling machine", Materials Today: Proceedings, 27, pp. 1596-1600.**(Scopus indexed)**
30. **M.Shunmugasundaram**, A. Praveenkumar, L.P.Sankar, S.Sivasankar (2020), "Experimental investigation and process parameters optimization of stir cast aluminium metal matrix composites to improve material removal rate", Materials Today: Proceedings, 27, pp. 883-888.**(Scopus indexed)**
31. S.Sivasankar, L.P. Sankar, A.P Kumar and **M.Shunmugasundaram** (2020) "Compression behavior of cylinder reinforced with aramid fiber reinforced polymer", Materials Today: Proceedings, 27, pp. 764-771.**(Scopus indexed)**
32. A.P.Kumar, M**.Shunmugasundaram**, S. Sivasankar and N.K.Amuthavalli (2020) "Evaluation of axial crashworthiness performance of composite wrapped metallic circular tubular structures", Materials Today: Proceedings, 27, pp. 1268-1272.**(Scopus indexed)**
33. N.K.Amudhavalli, S. Sivasankar, **M.Shunmugasundaram** and A.P. Kumar (2020) "Characteristics of granite dust concrete with m-sand as replacement of fine aggregate composites", Materials Today: Proceedings, 27, pp. 1401-1406.**(Scopus indexed)**
34. L.P. Sankar, S. Sivasankar, **M.Shunmugasundaram**, and A.P.Kumar (2020) "Investigation on binder and concrete with fine grinded fly ash and silica fume as pozzolanic combined replacement", Materials Today: Proceedings, 27, pp. 1157-1162.**(Scopus indexed)**
35. **M.Shunmugasundaram**, A.P. Kumar, N.K. Amudhavalli and S. Sivasankar, (2020) "Investigations on the Tensile and Flexural Properties of Vacuum-Infused Areca Polymer Nanocomposites. Advances in Lightweight Materials and Structures", Springer Proceedings in Materials, Vol 8. Springer, Singapore. https://doi.org/10.1007/978-981-15-7827-4_24. **(Web of Science indexed)**
36. **M.Shunmugasundaram** M., P.Anand, M.A.A.Baigand Y.(2020) "Experimental Investigation on Tensile Property of Vacuum Infused Kenaf-Based Polymer Composite with the Presence of Nanofillers. Advances in Lightweight Materials and Structures" Springer Proceedings in Materials, Vol 8. Springer, Singapore. https://doi.org/10.1007/978-981-15-7827-4_26. **(Web of Science indexed)**
37. N.K. Amudhavalli, S. Sivasankar, **M.Shunmugasundaram** and A.P. Kumar (2020) "Correlation Involving Compressive Strength and Flexural Strength of Polyester

Fiber-Reinforced Binary Blended Concrete", Springer Proceedings in Materials, Vol 8. Springer, Singapore, https://doi.org//10.1007/978-981-15-7827-4_8.**(Web of Science indexed)**

38. S. Sivasankar,N.K. Amudhavalli, A.P. Kumar and **M.Shunmugasundaram**(2020) "Effect of Carbon Fiber-Reinforced Polymer Strips on Square Steel Tubular Sections Under Compression", Springer Proceedings in Materials, Vol 8. Springer, Singapore, https://doi.org// 10.1007/978-981-15-7827-4_13.**(Web of Science indexed)**
39. A.P. Kumar, **M.Shunmugasundaram**, S. Sivasankar and N.K. Amudhavalli (2020) "Effect of Nano Fillers on the Mechanical Behavior of Mercerized Plain Weaved Flax Fabric Reinforced Polymer Composites", Springer Proceedings in Materials, Vol 8. Springer, Singapore, https://doi.org//10.1007/978-981-15-7827-4_20.**(Web of Science indexed)**
40. N. Ameer Ahamad, Azeem, Maughal Ahmed Ali Baig and **M.Shunmugasundaram** (2020) "Conjugate Heat and Mass Transfer Due to Solid Block in Porous Material", Springer Proceedings in Materials, Vol 8. Springer, Singapore, https://doi.org// 10.1007/978-981-15-7827-4_74. **(Web of Science indexed)**
41. R. Kamalakannan, **M.Shunmugasundaram**, R. Nagaraj, D. Aravindhan and S. Mohammed Thouffic. (2020) "A Discrete Artificial Immune System Algorithm for the Lot Streaming Flow Shop Scheduling Problem", Springer Proceedings in Materials, Vol 8. Springer, Singapore, https://doi.org// 10.1007/978-981-15-7827-4_83**(Web of Science indexed)**
42. Debashis Mishra, K. Rajanikanth, **M.Shunmugasundaram**, A. Praveen Kumar and D. Maneiah (2021) "Dissimilar resistance spot welding of mild steel and stainless steel metal sheets for optimum weld nugget size", Materials Today: Proceedings, 46, 919–924. **(Scopus indexed)**
43. **M.Shunmugasundaram**,A.PraveenKumar, Debashish Mishra, D.Maneiah and DayadiNageswaraRao (2021) "A Review on Process parameter Optimization of Friction Stir Welded Dissimilar Alloys", AIP Conference Proceedings 2358, 040001; https://doi.org/10.1063/5.0057895.**(Scopus indexed)**
44. D.Maneiah, **M.Shunmugasundaram**, A.PraveenKumar, Debashish Mishra and M.Ajay Kumar (2021) "Influence of Abrasive Water Jet Machining Parameters on Material Removal Rate of Hybrid Metal MatrixComposites" AIP Conference Proceedings 2358, 020004; https://doi.org/10.1063/5.0057898.**(Scopus indexed)**
45. A.Praveen Kumar, **M.Shunmugasundaram**, Debashish Mishra, D.Maneiah and M. Gowthamuneswara Rao (2021) "Axial Crushing Behaviour of Kevlar Polymer CompositeTubular Structures under Quasi-static Compression", AIP Conference Proceedings 2358, 020001; https://doi.org/10.1063/5.0057891.**(Scopus indexed)**
46. D. Maneiah, A. Praveen Kumar, **M.Shunmugasundaram**, Debasish Mishra, and D. Sravani (2021) "Progressive collapse behaviour of aluminium-composite bitubular energy absorbers subjected to axial loading" AIP Conference Proceedings 2358, 090004;https://doi.org/10.1063/5.0057892.**(Scopus indexed)**
47. D.Maneiah, Debashish Mishra, A.Praveen Kumar, **M.Shunmugasundaram** and L.Mangesh (2021) "Effect of Welding Angle on Strength of Friction Welded Aluminum 6061-T6 Alloy Welded Joints", AIP Conference Proceedings 2358, 090006; https://doi.org/10.1063/5.0058961. **(Scopus indexed)**