Curriculum Vitae

Brief Profile: Dr. C. Sathiya Narayanan was born on June 9, 1973. He received his B.E. degree in Mechanical Engineering from Mookambikai College of Engineering / Bharathidasan University in 1994. Then, he received his M.E. degree in Manufacturing Technology from Regional Engineering College Tiruchirappalli (National Institute of Technology Tiruchirappalli)/ Bharathidasan University in 1996. Then, he received his Ph.D. from National Institute of Technology Tiruchirappalli / Bharathidasan University in 2007. Since 2006, he is working at National Institute of Technology, Tiruchirappalli. His R&D activities include Sheet Metal Forming and EDM. He has authored and co-authored many refereed articles among which most articles are concentrating in the area of Sheet Metal Forming Process.

1. Name: Dr. C. Sathiya Narayanan
2. Designation: Associate Professor
3. Office Address: Dr. C. Sathiya Narayanan, Associate Professor, Department of Production Engineering, National Institute of Technology, Tiruchirappalli – 620015.
4. Telephone (Direct) (Optional):

   Telephone : 0431-250-3511 Extn (Optional):

   Mobile (Optional): 8056615876
5. Email (Primary): csathiya@nitt.edu Email (Secondary) : csathiyanarayanan@gmail.com
6. Field(s) of Specialization: Sheet Metal Forming, EDM

7. Employment Profile

Job Title	Employer	From	To
Associate Professor	National Institute of Technology, Tiruchirappalli	12-03-2018	Till Date
Assistant Professor	National Institute of Technology, Tiruchirappalli	01-07-2010	11-03-2018
Assistant Professor / Lecturer (S.S)	National Institute of Technology,	01-07-2007	30-06-2010

	Tiruchirappalli		
Lecturer	National Institute of Technology, Tiruchirappalli	29-03-2006	30-06-2007
Assistant Professor	J.J. College of Engineering and Technology, Trichy	01-07-2001	28-03-2006
Lecturer	J.J. College of Engineering and Technology, Trichy	30-09-1996	30-06-2001

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	Regional Engineering College - Bharathidasan University	2007		
M.E.	Regional Engineering College - Bharathidasan University	1996	Manufacturing Technology / I Class	
B.E.	Mookambigai College of Engineering - Bharathidasan University	1994	Mechanical Engineering/ I Class	
12^{th}	Bishop Heber Higher Secondary School - Board of Higher Secondary School	1990		Mathematics, Biology, Physics, Chemistry

	Examination Tamil Nadu			
10th	St. Andrews High School – Board of High School Examination Tamil Nadu	1988		

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Head of the Department	Department of Production Engineering, NITT	March-2022	Till date
Associate Dean (FW)	NITT	21-12-2018	March-2022
Warden (Agate, Coral, Mess A & B)	NITT	21-02-2018	20-07-2019
Faculty In-Charge FESTEMBER 2018	NITT	12-03-2018	11-03-2019
Staff advisor of PEA	Department of Production Engineering, NITT	01-06-2020	31-05-2021
Class Advisor	Department of Production Engineering, NITT	01-06-2018	31-05-2021
Project coordinator	Department of Production Engineering, NITT	01-06-2020	31-05-2021
Member in convocation committee	NITT	01-06-2018	24-09-2021
Department Member in Ph.D. Admission Committee	Department of Production Engineering, NITT	01-06-2018	24-09-2021
Member in convocation committee	NITT	01-01-2007	31-12-2017
Member in Ph.D. Admission Committee	Department of Production Engineering, NITT	01-05-2011	10-11-2017
Member in stock verification committee	Department of Production Engineering, NITT	01-04-2007	01-12-2016
Project coordinator for M.Tech	Department of Production Engineering, NITT	01-07-2013	31-05-2014

Staff advisor for M.Tech Class	Department of Production Engineering, NITT	01-07-2012	31-05-2014
Member in department level NBA committee	Department of Production Engineering, NITT	01-06-2008	02-05-2014
Faculty In-charge for purchasing materials/machine	Department of Production Engineering, NITT	01-06-2012	31-05-2013
Staff advisor of PEA	Department of Production Engineering, NITT	01-07-2010	01-07-2011
Project coordinator	Department of Production Engineering, NITT	01-07-2010	31-05-2011
Class Advisor	Department of Production Engineering, NITT	01-06-2008	31-05-2011
Member in core committee for implementation of DST	NITT	01-03-2009	01-03-2010
Member in publication committee in SCMIS conference	NITT	01-06-2007	31-05-2008

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Academic Expert member of the BOS, Mechatronics Engineering Program of Kumaraguru College of Technology, Coimbatore	Kumaraguru College of Technology, Coimbatore	2021	-
Academic Expert member of the BOS, for B.E. (Mechanical Engineering) & M.E. (Manufacturing Engineering), M.Kumarasamy College of Engineering, Karur	M.Kumarasamy College of Engineering, Karur	2021	-
Invited Lecture in MECHNOVA 19	PRIST, Thanjavur	2019	-

Invited Talk in Webinar	SRMS CET Bareilly	2021	-
DC Member for Five Research Scholars	Anna University	2020	-
DC Member for Three Research Scholars	Anna University	2019	-
DC Member for Three Research Scholars	Anna University	2018	-
Board of Studies - Updating the Curriculam	KSR College of Technology, Tiruchengode	2017	-
Board of Studies - Updating the Curriculam	KSR College of Technology, Tiruchengode	2016	-
Workshop	Bannari Amman Institute of Technology, Satyamangal	2010	-
International Conference	J.J.College of Engineering and Technology	2012	-
International Conference	MME Department, NIT, Trichy	2015	-
DC Member	Anna University	2009	-
DC Member	Anna University	2010	-
DC Member	Anna University	2011	-
DC Member	Anna University	2012	-
DC Member	Anna University	2013	-
DC Member	Anna University	2014	-
DC Member	Anna University	2015	-
DC Member	Anna University	2016	-
DC Member	Anna University	2017	-
Workshop	VIT Vellore	2016	-
DC Member	VIT Vellore	2017	-
DC Member	VIT Vellore	2016	-
DC Member	VIT Vellore	2015	-
Workshop	Roever College of Engineering and Technology, Pera	2013	-
Workshop	Kongunadu College of Engineering and Technolopy	2015	-

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

13. Details of Academic Work

(i) Curriculum Development – Contributed as a Department Member PR613 – Heat Treatment

(ii) Courses taught at Postgraduate and Undergraduate levels

PG Courses Taught:
PR602 – Advanced Forming Technology
PR613 – Heat Treatment
PR617 - Manufacturing of Non-metallic Products

UG Courses Taught:
PRPC12 - Metallurgy and Materials Engineering
PRPC17 - Forming Technology
PRLR13 - Weldability and Formability Testing Lab
PRIR11 – Engineering Practice
MEIR12 – Engineering Graphics

(iii)Projects guided at Postgraduate level

S. No.	PG Thesis Title	Student Name	Year
1	Development of Multi Point Forming Tool for Incremental Sheet Metal Forming Process, Multiple Sheet Forming of Dual Phase Steel and Multi Point Incremental Forming of SS 420 Sheets	K. A. SELVA RAJAN	2022
2	Development of Proactive measure for improving Plant safety performance by mapping incidents root causes with Safety observations data	Ankit Singh Rawat	2022
3	Multi Objective Optimization and Investigation of Surface Roughness in Incremental Forming of duplex stainless steel grade 2205	Redkar Arjun Ganpat	2022
4	Process Simulation of Single Point Incremental Forming using a Finite Element Model	Nihad Najeeb	2022
5	Formability Analysis and Multi Objective Optimization of duplex	Redkar Arjun Ganpat	2021

	stainless steel grade 2205 in Single Point Incremental Sheet Forming		
6	Multi Objective Optimization of Single Point Incremental Forming of Perforated Sheet Using Desirability Function Method	Nihad Najeeb	2021
7	Modelling and Multi Objective Optimization of Single Point Incremental Sheet Forming on Cu Ni 70/30	Deepak Joy	2021
8	Multi Response Optimization of Parameters in Incremental Sheetmetal Forming of Ni-200 Alloy	Mohammed Rameez CK	2021
9	Formability Evaluation of Cu-Ni 70/30 Alloy on Single Point Incremental Forming Method	Deepak Joy	2020
10	Formability of Nickel 200 Alloy by Incremental Sheet Metal Forming	Mohammed Rameez CK	2020
11	Multi Response Optimization on Single Point Incremental Forming of Hyperbolic Shape Cu/AI Bimetallic Sheet	Aman Kumar Bharti	2020
12	Optimization of Process Parameter for Single Point Incremental Forming on Titanium Alloy OT4-1 using Taguchi Grey Relational Analysis	Rakesh Patel	2020
13	Hybrid Optimization for Single Point Incremental Forming of SS 904L	Shah Arjun Ramkripal	2020
14	Investigations on Forming, Fracture and Corrosion Behavior of Stainless Steel 202 Sheet Formed by Single Point Incremental Forming Process	Vignesh. G	2020
15	IMPROVING PRODUCTIVITY of TUNNEL BORING MACHINES	BHAVANA LEKSHMY MV	2020
16	IMPROVING PRODUCTIVITY of TUNNEL BORING MACHINES	BHAVANA LEKSHMY MV	2019
17	Forming and Optimization for SPIF of Bimetallic Cu/Al Alloy Sheets	Aman Kumar Bharti	2019
18	Experimental Investigation of Single Point Incremental Forming on Titanium Alloy OT4-1	Rakesh Patel	2019
19	Incremental Sheet Metal Forming of Aluminium 7475 Alloy	Duddu Vinod Kumar	2019
20	Formability Studies on AA6063 Alloy using the Single Point Incremental Forming Process	Balkrishna	2019

21	Optimization of Aluminium 7475 Alloy sheet during SPIF process	Duddu Vinod Kumar	2018
22	Optimization of Aluminium 6063 Alloy sheet during SPIF process	Balkrishna	2018
23	Optimization of Wall Angle in Incremental Sheet Metal Forming of Al-5083 Alloy	M Jaipal Lambada	2018
24	Optimization of Wall Angle in Incremental Sheet Metal Forming of Al-5754 Alloy	Vangapalli Venkata Chandrasekhararao	2018
25	Optimization of Wall Angle in Incremental Sheet Metal Forming of Al-1100 Alloy	Shaik Saidhul	2018
26	Incremental Sheet Metal Forming of Aluminium 5083 Alloy	M Jaipal Lambada	2017
27	Incremental Sheet Metal Forming of Aluminium 5754 Alloy	Vangapalli Venkata Chandrasekhararao	2017
28	Incremental Sheet Metal Forming of Aluminium 1100 Alloy	Shaik Saidhul	2017
29	Optimization of Formability and Spring Back in Multi Sheet Single Point Incremental Forming of Pure Aluminium Foil	Neelkamal Haloi	2016
30	Effect of Cryogenic Treatment on Formability in Incremental Sheet Metal Forming of Aluminium Sheets	Surendra Singh Nagdali	2015
31	Optimization of Process Parameters for Eelectro Chemical Machining of Stellite 6B	Ram Krishna Raman	2015
32	Modelling and Optimization of Process Parameters in Incremental Sheet Metal Forming of Al 6081 Alloy Using Genetic Algorithm Technique	Devara Ravi Babu	2014
33	Multiresponde Optimization of ECM Process Parameters for Titanium Carbide Using Grey Relation Analysis and DOE	Pradeep Rathore	2014
34	Parametric Optimization of Electrochemical Machining of Ni Based Alloy (Inconel 718)	Ram Krishna Raman	2014
35	Effect of Texture on Formability in incremental Sheet Forming of Al Sheets	Surendra Singh Nagdali	2014
36	Effect of Process Parameters on Formability in Incremental Forming	D.Vinodhkumar	2013

	of Sheet Metal		
37	Optimization of ECM Process Parameters for Al 3% SIC Composite Using Taguchi Method and Anova Analysis	Pradeep Rathore	2013
38	Optimization of Multiple Hole Electrode for Electrical Discharge Machining of Tool Steel	D.Ravichandra	2012
39	Formability Study of Al-6061 Through Incremental Sheet Metal Forming	E. Linganna Gowd	2012
40	Electrical Discharge Machining of Die Steel With Bundled Electrode	Pagidi Madhukar	2012
41	The Influence of Tool Size and Rotation on as Incremental Forming Process	D.Vinod Kumar	2012
42	Electrical Discharge Machining of AISI D3 Tool Steel With Multiple Hole Electrodes	R.Prasad Prathipati	2011
43	Modelling of Grinding Process of Aluminium-Ti Boride Metal Matrix Composites	Mathew Alex	2010
44	Implementation of Activated TIG Process in Boiler Pressure Parts	N.Srinivasan	2010
45	Optimization of Parameters for Angularity and Squareness in EDm of Inconel 718 Using Grey Relational Analysis	Sathosh Kumar B	2010
46	Improvement of Performance EDM by Adaptive Control While Machining Inconel 718 as Workpiece With Copper Electrode of Different Profile	Senkathir S	2010
47	Formability of Perforated Aluminium 8081 Sheet	Jain Raj V	2009
48	Optimization Machining Parameters in Electrical Discharge Machining of Inconel 718 Using Grey Relational Analysis	Santhosh Kumar B	2009
49	Modelling and Experimental Study of Forces in Surface Grinding	Mathew Alex	2009
50	Taguchi Multiple Performance Characteristics Optimization of Electrical Discharge Machining of Ti Alloy Using Utility Concept	A Palanisamy	2008
51	Formality Limit Diagram of Perforated Aluminium 19000 Sheets	N. Srinivasan	2008

52	Modelling and Analysis of the Rapidly Resolidified Layer of SG Cast Iron in the EDM Process Through the Response Surface Methodology	R.Dinakaran	2007
53	Multi Objective Optimization of EDM Parameters Using Grey Relational Analysis for Ti Alloy	A.Palanisamy	2007
54	Determination of Forming Limit Diagram and Strain Distribution for HSLA Steels	K.Amarendranath	2006
55	The Machining Parameters Optimisation of Electrical Discharge Machining of EN31 Alloy Steel Using RSM	R.Dinakaran	2006

(iv) Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Forming Limit Diagram, Wrinkling Limit Diagram and other Test Results for TISCO High Tensile Interstitial Free and other Steel Sheets	TATA Steel, the TATA Iron and Steel Company Limited	14-07-2005	31-03-2008	Completed
Formability of Low Nickel Stainless Steels	Salem Steel Plant	14-11-2006	14-11-2009	Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Gunda Yoganjaneyulu	Investigations on the Formability, Fracture and Corrosion Behaviour of Titanium Grade 2 and Grade 4 Sheets Using Incremental	Supervisor	2020

	Forming Process		
C. Raju	Investigations on Incremental Forming of Pure Copper and Aluminium Sheets	Supervisor	2017
N. Manikandan	Investigations on Electrochemical Drilling of Superalloys and Titanium alloys	Co-Supervisor	2017
L. Selvarajan	Investigations on Electrical Discharge Machining (EDM) of Conductive Ceramic Composites	Supervisor	2016
K. Elangovan	Statistical Analysis and Modelling of Experimentally Evaluated Forming Limit Strains of Perforated Aluminium Alloy Sheets	Supervisor	2011

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Role of Quality of	International	21-07-	Coordinator	National

Problems and Feedback in Learning		2020		Institute of Technology, Trichy - 15
How Teachers Can Make a Difference	International	03-08-2020 to 07-08-2020	Coordinator	National Institute of Technology, Trichy - 15
E-Content Development	International	10-08-2020 to 14-08-2020	Coordinator	National Institute of Technology, Trichy - 15
The Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal)	International	19-08-2020	Coordinator	National Institute of Technology, Trichy - 15
Metal Forming and Powder Metallurgy	International	28-01-2008 to 30-01-2008	Coordinator	National Institute of Technology, Trichy - 15
Composite Materials: Processing Challenges and Opportunities	International	13-07-2009 to 24-07-2007	Coordinator	National Institute of Technology, Trichy - 15
Emerging Trends in Manufacturing Technology	International	26-09-2016 to 01-10-2016	Coordinator	National Institute of Technology, Trichy - 15
Advances in Manufacturing Technology	International	08-08-2013 to 10-08-2013	Coordinator	National Institute of Technology, Trichy - 15

18. Invited Talks delivered

Topic	Date	Inviting Organization

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date

20. Academic Foreign Visits

Country	Duration of Visit	Programme

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Vellaisamy Balasubramaniam, Durairaj Rajkumar, Poovaraj Ranjithkumar, Chinnaiyan Sathiya Narayanan	Comparative study of mechanical technologies over laser technology for drilling carbon fiber reinforced polymer materials	Indian Journal of Engineering and Materials Sciences (IJEMS)	27(1)	19-32	2021	
Ramkumar, K., N. Baskar, K. Elangovan, C. Sathiya Narayanan, K. A. Selvarajan, and C. P. Jesuthanam	Comparison of multi point incremental forming tool with single point incremental forming tool using FLD, fractography and 3D-surface roughness analysis on Cr/Mn/Ni/Si based stainless steel	Silicon	13(2)	487-494	2021	

G Yoganjaneyulu, C Sathiya Narayanan	Application of Entropy—Deng's Similarity Approach for Optimization of Single-Point Incremental Forming Process Parameters of Titanium Grade 2 Sheets	Advances in Industrial Automation and Smart Manufacturing-Springer, Singapore		297-312	2021	
PN Siddharth, C Sathiya Narayanan	A review on Electron Beam Welding process	Journal of Physics: Conference Series	1706(1)	12208	2020	
G Yoganjaneyulu, Natarajan Manikandan, C Sathiya Narayanan	Investigations on multi-sheets single point incremental forming of commercial pure titanium alloys	Materials and Manufacturing Processes	35(9)	1002-1009	2020	
K Ramkumar, N Baskar, K Elangovan, C Sathiya Narayanan, KA Selvarajan, CP Jesuthanam	Comparison of Multi Point Incremental Forming Tool with Single Point Incremental Forming Tool Using FLD, Fractography and 3D-Surface Roughness Analysis on Cr/Mn/Ni/Si Based Stainless Steel	Silicon		1-8	2020	
C Chinthanai Selvan, C Sathiya Narayanan, B Ravisankar, R Narayanasamy, C Thillaiyadi Valliammai	The dependence of the strain path on the microstructure, texture and mechanical properties of cryogenic rolled Al-Cu alloy	Materials Research Express	7(3)	36525	2020	
K Tejonadha Babu, S Muthukumaran, C Sathiya Narayanan, CH Bharat Kumar	Analysis And Characterization Of Forming Behavior On Dissimilar Joints Of Aa5052-O To Aa6061-T6 Using Underwater Friction Stir Welding	Surface Review and Letters	27(3)	1950121	2020	
G Yoganjaneyulu, VV Ravikumar, C Sathiya Narayanan	Investigations on strain distribution, stress-based fracture limit and corrosion behaviour of titanium Grade 2 sheets during single point incremental forming	Anti-Corrosion Methods and Materials			2020	

G Vignesh, C Pandivelan, CS Narayanan	Review on multi-stage incremental forming process to form vertical walled cup	Materials Today: Proceedings	27	2297-2302	2020	
G Vignesh, C Pandivelan, CS Narayanan	Study on formability and dislocation density in forming of hemispherical cup	Materials Today: Proceedings	27	2005-2010	2020	
G Vignesh, CS Narayanan, C Pandivelan, K Shanmugapriya, BN Tejavath, L Tirupathi	Forming, fracture and corrosion behaviour of stainless steel 202 sheet formed by single point incremental forming process	Materials Research Express	6 (12)	126540	2019	
G Yoganjaneyulu, KA Babu, S Vigneshwaran, CS Narayanan	Microstructure and mechanical properties of cryorolled Al–6Zn–3Mg–2Cu–0.5 Sc alloy	Materials Letters	255	126606	2019	
G Yoganjaneyulu, CS Narayanan	A Comparison of Fracture Limit Analysis on Titanium Grade 2 and Titanium Grade 4 Sheets During Single Point Incremental Forming	Journal of Failure Analysis and Prevention	19 (5)	1286-1296	2019	
S Kumar, S Dhanabalan, CS Narayanan	Application of ANFIS for the Selection of Optimal Wire-EDM Parameters While Machining Ti-6Al-4V Alloy and Multi-Parametric Optimization Using GRA Method	International Journal of Decision Support System Technology (IJDSST)	11 (4)	96-115	2019	
CC Selvan, CS Narayanan, S Vigneshwaran, R Narayanasamy, P Susila	The microstructure transformations and deformation behavior of Al-4Mg-0.2 Zr alloy rolled at ambient and cryogenic temperatures	Materials Research Express	6 (10)	1065a5	2019	
G Yoganjaneyulu, VV Ravikumar, CS Narayanan	Investigations on strain distribution, stress-based fracture limit and corrosion behaviour of titanium Grade 2 sheets during single point incremental forming	Anti-Corrosion Methods and Materials			2019	
G Yoganjaneyulu, Y Phaneendra,	Investigations on the void coalescence and	Anti-Corrosion Methods and			2019	

VV Ravikumar, CS Narayanan	corrosion behaviour of titanium grade 4 sheets during single point incremental forming process	Materials				
G Yoganjaneyulu, KA Babu, GV Siva, S Vigneshwaran, CS Narayanan	Microstructure and mechanical properties of Al–6 Zn–3 Mg–2 Cu–0.5 Sc alloy	Materials Letters			2019	
S Kumar, S Dhanabalan, CS Narayanan	Application of ANFIS and GRA for multi-objective optimization of optimal wire-EDM parameters while machining Ti–6Al–4V alloy	SN Applied Sciences	1 (4)	298	2019	
S Dhanabalan, K Sivakumar, CS Narayanan	Form tolerances investigation in EDM process for super alloys using multiple holes electrodes	NISCAIR-CSIR			2019	
KT Babu, S Muthukumaran, CH Kumar, CS Narayanan	Improvement in Mechanical and Metallurgical Properties of Friction Stir Welded 6061-T6 Aluminum Alloys through Cryogenic Treatment	In Materials Science Forum	969	490-495	2019	
KT Babu, S Muthukumaran, CH Kumar, CS Narayanan	A Study on Influence of Underwater Friction Stir Welding on Microstructural, Mechanical Properties and Formability in 5052-O Aluminium Alloys	In Materials Science Forum	969	27-33	2019	
G Yoganjaneyulu, C Sathiya Narayanan, R Narayanasamy	Investigation on the fracture behavior of titanium grade 2 sheets by using the single point incremental forming process	Journal of Manufacturing Processes	35	197-204	2018	
K Ramkumar, G Paulraj, K Elangovan, C Sathiya Narayanan	Forming Limit Diagram, Void Analysis, Strain Distribution and Surface Roughness for SS430 Sheets During	Archives of Metallurgy and Materials	63	1709-1714	2018	

	Multipoint Incremental Forming					
C Raju, Neelkamal Haloi, C Sathiya Narayanan	Strain distribution and failure mode in single point incremental forming (SPIF) of multiple commercially pure aluminum sheets	Journal of Manufacturing Processes	30	328-335	2017	
D Rajkumar, P Ranjithkumar, C Sathiya Narayanan	Optimization of machining parameters on microdrilling of CFRP composites by Taguchi based desirability function analysis	NISCAIR-CSIR, India			2017	
S Kannadasan, A Senthil Kumar, C Pandivelan, C Sathiya Narayanan	Modelling the Forming Limit Diagram for Aluminium Alloy Sheets using ANN and ANFIS	Appl. Math	11	1435-1442	2017	
D Raj Kumar, P Ranjith Kumar, C Sathiya Narayanan, G Sakthivel, S Karmegam	Application of the Taguchi based Desirability Function Analysis to Improve a GFRP Micro-drilling Performance	Asian Journal of Research in Social Sciences and Humanities	7	771-783	2017	
L Selvarajan, C Sathiya Narayanan, R Jeyapaul, M Manohar	Optimization of EDM process parameters in machining Si3N4–TiN conductive ceramic composites to improve form and orientation tolerances	Measurement	92	114-129	2016	
C Raju, C Sathiya Narayanan	FLD and Fractography Analysis of Multiple Sheet Single Point Incremental Forming	Transactions of the Indian Institute of Metals	69	1237-1243	2016	
L Selvarajan, C Sathiya Narayanan, R JeyaPaul	Optimization of EDM Parameters on Machining Si3N4–TiN Composite for Improving Circularity, Cylindricity, and Perpendicularity	Materials and Manufacturing Processes	31	405-412	2016	
V Balasubramaniam, N Baskar, Chinnaiyan	Effect of process parameters on the electrical discharge machining of aluminum	Science and Engineering of Composite Materials	23	145-154	2016	

Sathiya Narayanan	metal matrix composites through a response surface methodology approach					
V Balasubramaniam, N Baskar, C Sathiya Narayanan	Experimental Investigations on EDM Process for Optimum Cylindricity and SR through less Machining Time for Al6061/SiC Composites	Asian Journal of Research in Social Sciences and Humanities	6	126-134	2016	
C Raju, C Sathiya Narayanan	Application of a hybrid optimization technique in a multiple sheet single point incremental forming process	Measurement	78	296-308	2016	
L Selvarajan, C Sathiya Narayanan, R Jeyapaul	Optimization of EDM Hole Drilling Parameters in Machining of MoSi 2-SiC Intermetallic/Composites for Improving Geometrical Tolerances	Journal of Advanced Manufacturing Systems	14	259-272	2015	
L Selvarajan, C Sathiya Narayanan, R Jeyapaul	Optimization of process parameters to improve form and orientation tolerances in EDM of MoSi2-SiC composites	Materials and Manufacturing Processes	30	954-960	2015	
S Dhanabalan, K Sivakumar, C SATHIYA Narayanan	Experimental investigation on electrical discharge machining of titanium alloy using copper, brass and aluminum electrodes	Journal of Engineering Science and Technology	10	72-80	2015	
S Dhanabalan, K Sivakumar, C Sathiya Narayanan	Analysis of form tolerances in electrical discharge machining process for Inconel 718 and 625	Materials and Manufacturing Processes	29	253-259	2014	
V Balasubramaniam, N Baskar, C Sathiya Narayanan	Optimization of Electrical Discharge Machining Parameters Using Artificial Neural Network With Different Electrodes	5th International & 26th All India Manufacturing Technology, Design and Research Conference			2014	

		(AIMTDR 2014) December 12th–14th				
A Palanisamy, R Rekha, S Sivasankaran, C Sathiya Narayanan	Multi-Objective Optimization of EDM Parameters Using Grey Relational Analysis for Titanium Alloy (Ti–6Al–4V)	Applied Mechanics and Materials	592	540-544	2014	
L Selvarajan, C Sathiya Narayanan, R Jeyapaul	Multi-Objective Optimization on Electric Discharge Machining Using by Grey Relational Analysis	Applied Mechanics and Materials	592	550-554	2014	
L Selvarajan, C Sathiya Narayanan, R Jeyapaul	Optimization of Machining Characteristics in EDM of Si3N4-TiN Composites by Taguchi Grey Relational Analysis	Applied Mechanics and Materials	592	600-604	2014	
S Dhanabalan, K Sivakumar, C Sathiya Narayanan	Optimization of machining parameters of EDM while machining Inconel 718 for form tolerance and orientation tolerance	NISCAIR-CSIR, India			2013	
S Dhanabalan, K Sivakumar, C Sathiya Narayanan	Optimization of Machining Parameters in EDM of Inconel 718 for Form Tolerance Using Grey Relational Analysis	Corrosion Detection in 'T'Bend Oil Pipelines Based on Fuzzy Implementation	17	1453	2012	
G Venkatachalam, S Narayanan, C Sathiya Narayanan	Ductile Fracture Criteria Based Forming Limits of Pure Commercial Perforated Aluminium Sheets in the Negative Minor Strain Region	European Journal of Scientific Research	77	411-416	2012	
G Venkatachalam, S Narayanan, S Patel Nilay, Prabhakar Nishant, C Sathiya Narayanan	Influence of hole shape and pattern on the prediction of limiting strain for perforated commercial pure aluminium sheets	Applied Mechanics and Materials	232	961-965	2012	

G Venkatachalam, S Narayanan, C SATHIYA NARAYANAN	Influence of hole size, hole shape and hole pattern on spring-back effect in perforated sheet metals using FEM	International Journal of Engineering Science and Technology (IJEST)			2012	
S Dhanabalan, K Sivakumar, C Sathiya Narayanan	Optimization of EDM process parameters with multiple performance characteristics for titanium grades	European journal of scientific research	68	297-305	2012	
G Venkatachalam, S Narayanan, Narayanan C Sathiya	Prediction of limiting strains for square pattern–square hole perforated commercial pure aluminium sheets	Advanced Materials Research	548	382-386	2012	
S Murugesan, K Balamurugan, C Sathiya Narayanan, PG Venkatakrishnan	Study on EDM of Al-15% SiC MMC using Solid and Multihole electrodes-A Taguchi approach	European Journal of Scientific Research	68	161-171	2012	
K Elangovan, C Sathiya Narayanan, R Narayanasamy	Modelling the correlation between the geometrical features and the forming limit strains of perforated Al 8011 sheets using artificial neural network	International journal of material forming	4	389-399	2011	
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(B) Conferences/Workshops/Symposia Proceedings

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K A Selvarajan, C Sathiya Narayanan, C Raju	Co efficient of Performance between Single and Multi Point Incremental Forming Tools (Patent Protected) for Similar Components	AMPIE'18		International Conference	MIET Namakkal	2
K A Selvarajan, C Sathiya Narayanan, C Raju	Development of Multi Point Incremental Forming Tools (Patent Protected) – An overview from starting stage prototypes	AMPIE'18		International Conference	MIET Namakkal	2
K A Selvarajan, C Sathiya Narayanan, C Raju	Development of Database for Literature Review on Multi Point Incremental Forming Tools (Patent Protected)	AMPIE'18		International Conference	MIET Namakkal	2
K A Selvarajan, C Sathiya Narayanan	Multiple Sheet Single Point Incremental Forming for dual phase steel sheet	CDAMIES-2018		International Conference	NIT Trichy	2
D Rajkumar, P Ranjithkumar, C	Optimization and application	International Conference on		Others	MAM School of Engineering,	2

Sathiya Narayanan	of VMC in small-hole fabrication of CFRP composites	Recent Advances in Engineering & Technology (ICRAET-2017)			Trichy	
D Rajkumar, P Ranjithkumar, C Sathiya Narayanan	Effect of machining parameters on hole quality of micro drilling for CFRP	International Conference on materials, design and manufacturing process (ICMDM 2016)		International Conference	CEG Chennai	2
D Rajkumar, P Ranjithkumar, C Sathiya Narayanan	Optimization of machining parameter on drilling of CFRP composite desirability function analysis by Taguchi method	Second national level conference on Materials and Metallurgical Application (NCMMA-16)		International Conference	Nadar Saraswathi College of Engineering	2
D Rajkumar, P Ranjithkumar, C Sathiya Narayanan	Optimization Model in Computer Numerical Control Micro Step turning Process	Proceedings of the International Colloquium on Materials, Manufacturing and Metrology		International Conference	IT madras	2
V Balasubramaniam, N Baskar, C Sathiya Narayanan	Optimisation of Electrical discharge machining parameters using artificial neural network with different electrodes	5th Int and 26 All India AIMTDR		International Conference		2
D Rajkumar, P Ranjithkumar, C Sathiya Narayanan	Micromachining of Surface Roughness using Computer Numerical Control Lathe	An International Conference on PRECISION, MESO, MICRO AND NANO ENGINEERING-COPEN 2013		International Conference	NIT, Calicut	2
V Balasubramaniam,	Grey relational analysis	INCAMA 2013		International Conference	kalasalingam university	2

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V Balasubramaniam, N Baskar, C Sathiya Narayanan	Optimization of EDM parameters for Titanium alloy using L27 orthogonal array with Taghuchi Technique	AIMTDR 2012, 25th International conference and 4th AIMTDR		International Conference	Jadavpur University, Kolkata	2
V Balasubramaniam, N Baskar, C Sathiya Narayanan	Mathematical Modeling and Analysis of Electrical Discharge Machining on Al MMC-5 vol % SiCp composites	AIMTDR 2012, 25th international conference and 4th AIMTDR		International Conference	Jadavpur University, Kolkata	2
V Balasubramaniam, N Baskar, C Sathiya Narayanan	Investigation of Micromachining on CNC International Conference	INCOSET- 2012		International Conference	JJ College of Engineering and Technology, Tamilnadu	2
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R Narayanasamy, C Sathiya Narayanan	Formability of HSLA and EDDO steels	AIMTDR Conference		International Conference	VIT Vellore	2
C Sathiya Narayanan, R Narayanasamy	Farming Limit Diagram for Stainless Steel Sheet 430 Grade	National Conference on Recent Advances in Mechanical Engineering		Others	National Engineering College, Kovilpatti, Tamilnadu	2

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number