

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Curriculum Vitae



Brief Profile: 1-2 paragraphs (not exceeding 500 words)

1. Name **C.SATHIYA NARAYANAN**
2. Designation: Assistant Professor
3. Office Address: Department of Production
Engineering
4. Telephone (Direct) (Optional):
Telephone:0431 2503511 Extn (Optional):
Mobile (Optional): 80566 15876
5. Email (Primary): csathiya@nitt.edu Email (Secondary) :
csathianarayanan@gmail.com
6. Field(s) of Specialization: Sheet Metal Forming,
EDM
7. Employment Profile

Job Title	Employer	From	To
Lecturer	J.J.College of Engineering and Technology, Trichy-09.	30-9-1996	30-6-2001
Assistant Professor	J.J.College of Engineering and Technology, Trichy-09.	01-7-2001	27-3-2006
Assistant Professor	National Institute of Technology, Trichy-15.	28-3-2006	Till date

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

Examination	Board / University	Year	Division/ Grade	Subjects
B.E.	Bharathidasan University	1994	I Class	Mechanical Engineering

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M.E.	REC (NIT), Trichy.	1996	Manufacturing Technology	I Class
Ph.D.	REC(NIT), Trichy.	2007	Sheet Metal Forming	Commended

9. Academic/Administrative Responsibilities within the University

Sl. No.	Activities
1	➤ Staff Advisor of the Production Engineering Association 2010-2011
2	➤ PAC chairman for Production Engineering Students (present final year from 2008–09 to 2010-11)
3	➤ Under Graduate Project Coordinator for the academic year 2010 – 2011
4	➤ Project Committee Member for M.Tech. Manufacturing Tech. (for one
5	year)
6	➤ Faculty in-charge for the purchase of Electro Chemical Machine (ECM) under TEQIP
7	➤ Staff advisor for M.Tech (Manufacturing Technology), 2012-2014 batch
8	➤ Member in the Workshop Material Purchase committee
9	➤ Faculty in-charge for the purchase of Lathes (3 Nos.) under Plan Fund 2013
10	➤ Faculty in-charge for the purchase of Group of Machines under Plan Fund
11	2013
12	➤ Member in Convocation Committee for 3 Years.
13	➤ Member in Institute Sports day Committee 2013
14	➤ Worked as a Member of Department Ph.D. Admission committee
16	

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	<ul style="list-style-type: none"> ➤ Worked in Department committee for mock NBA preparation ➤ Member in publication committee of SCMIS-2008 ➤ Member in core committee for implementation DST-FIST Prod. Engg. Dept. ➤ Member in the stock verification committee of NIT from 2007
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10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To

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
- (ii) Courses taught at Postgraduate and Undergraduate levels

U.G

1. Engineering Materials - 8.9
2. Metal Forming Processes - 8.2
3. Production Drawing and Cost Estimation
4. Production Process Laboratory
5. Comprehensive Evaluation

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P.G

6. Manufacturing of Materials from Non-metallic Materials
7. Tooling for Manufacture
8. Mechanics of composite Materials
9. Production Process Laboratory

(iii) Projects guided at Postgraduate level

Number of P.G. Projects guided: **30**

Partial List

Name of the Student	Title of the Thesis	Year
1. R.Dinakaran	The Machining Parameters optimization of Electrical Discharge Machining of EN31 alloy steel using RSM	Dec 2006
2. R.Dinakaran	Modeling and analysis of the rapidly resolidified layer of SG iron in EDM process through response surface methodology	May 2007
3. A.Palanisamy	Multi-objective optimization of EDM parameters using Grey Relational Analysis for Titanium alloy	Dec 2007
4. A.Palanisamy	Taguchi multiple performance characteristics optimization of electrical discharge machining of Ti alloy using utility concept & Analysis of recast layer	May 2008
5. N.Srinivasan	Forming limit Diagram for perforated Aluminium 19000 sheets	Dec 2008
6. Mathew Alex	Modeling and Experimental study of grinding forces in Surface Grinding	Dec 2009
7. B.Sathosekumar	Optimization of Machining Parameters in Electrical Discharge Machining of Inconel 718 using Grey Relational Analysis	Dec 2009
8. V.Jainraj	Formability of Perforated Aluminium 8081 Sheet	Dec 2009
9. Mathew Alex	Modeling of grinding process of Al-Ti-Boride MMC	May 2010
10. B.Sathosekumar	Optimization of Parameters for Angularity and Squareness in EDM of inconel 718 using Grey relational Analysis	May 2010
11. V.Jainraj	Formability Analysis of Perforated aluminium 8081 sheets	May 2010
12. N.Srinivasan	Implementation of activated TIG process in boiler pressure parts	May 2010
13. S.Senkathir	Improvements of performance of EDM by Adaptive control while Machining Inconel 718	Dec 2010
14. S.Senkathir	EDM of Inconel 718 with brass electrode of diff Profiles	May 2011
15. Prasadh	Multiple-hole electrode EDM	Dec 2010
16. Prasadh	EDM of AISID3 Tool Steel with multiple Hole elec	May 2011

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17. E.Linganna Gowd	Incremental sheet metal forming with CNC milling machine Phase I	Dec 2011
18. E.Linganna Gowd	Formability study of Al6061 through ISF	May 2012
19. D.Ravi chandra	Optimization of Multi-hole electrode for Electrical Discharge Machining of Tool Steels Phase I	Dec 2011
20. D.Ravi chandra	Optimization of Multi-hole electrode for Electrical Discharge Machining of Tool Steels	May 2012
21. Pagidi Madhukar	Electrical Discharge Machining of Die Steels with bundled Electrode	Dec 2012
22. D.Vinodh Kumar	The influence of tool rotation on an incremental forming process	Dec 2012

(iv) Other contribution(s)

Involvement in Laboratory development (Give details)

1. Production Process Laboratory

Involvement in development of Experiments in the laboratory (Give details)

1. Measurement of Cutting forces in Turning Operation
2. Measurement of Cutting forces in Drilling Operation
3. Measurement of Cutting forces in Milling Operation
4. Study of Temperature Distribution in rake surface of the tool in turning.

14. Details of Major R&D Projects

Sl. No.	Title of Project	Funding Agency	Amount	Duration
01	Formability Analysis of High Strength I.F. Steel Sheets	TATA Steel Company, Jamshedpur.	Rs 11 Lakhs	3 Years
02	Formability of Low Nickel Stainless Steels	Salem Steel Plant	Rs 45,000.00	1 Year

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
K.Elangovan, Roll No: 414108051,(Awarded)	Formability of Perforated sheet metal	Supervisor	2011

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L.Selvarajan Roll No: 414111053	EDM of conductive ceramic composites	supervisor	2016
N.Manikandan Roll No: 414111004 Candidate:	ECM of Super Alloys	Co-supervisor	Thesis Submitted

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
Sl. No.	Topic of the Lecture		Name of the Institute / Department		Date
Short term training courses attended:					
01	Short-term course on “ Product Design ” under <i>QIP of AICTE</i>		IISc, Bangalore		14 - 18 December 1998
02	AICTE-ISTE sponsored STTP on “ Strategic Planning for Institutional Development ”		Kumaraguru College of Technology, Coimbatore.		11 th – 22 nd December 2000
03	Comprehensive CNC Turning / CNC Milling Training		MTAB-DENFORD Technology Centre, Chennai.		08-09-2001
04	One Week Short Term Evening Course on “Metallurgy, Manufacture and Quality Control of Grey Cast Iron, S.G. Iron & Alloy Cast Irons”		CODISSIA, Coimbatore.& Bannari Amman Institute of Technology, Sathyamangalam.		20 th – 25 th May 2002
05	Intensive Tutorial on “Micro & Nano Technology”		Institute of Smart Structures & Systems, Thiagarajar College of Engg and Instrument Society of India. Madurai.		7 th – 9 th December 2002
06	AICTE-ISTE Sponsored STTP on “ Modeling and Optimization of Manufacturing Systems using Conventional and Non-conventional Techniques ”		J.J. College of Engineering and Technology, Tiruchirappalli		10-11-2003 to 21-11- 2003
07	Workshop on “Tools and techniques for successful implementation of TPM		CII Chennai, at Chennai.		8.3.07 to 9.3.07

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	in industries”		
08	Faculty Development Training Program on ANSYS	National Institute of Technology, Trichy	4 th to 13 th July 2007
09	AICTE-STTP on “Recent Trends in Advanced Manufacturing”	NIT, Trichy	18-03-08 to 22-03-08
10	MHRD-AICTE Sponsored Summer School on Emerging Industrial Applications of Lasers	Department Production Engineering, NIT, Trichy	30 th June to 12 th July 2008
11	One day National Workshop on Patent Information	Bharathidasan University, Trichy	29-04-2009
12	AICTE-MHRD sponsored Staff Development Programme on “Quantitative Research Techniques for Engineers and Researchers”	Department of Mechanical Engineering, NIT, Trichy.	21 st Dec 2009 to 2 nd Jan 2010
13	Short Term course on Engineering Materials and Manufacturing Methods (EM3-2012)	Department of Metallurgical and Materials Engineering, NIT, Trichy.	June 25-30, 2012
Conferences Attended			
01	National conference on Recent Advances in Mechanical Engineering.	National Engineering College, Kovilpatti, Tamilnadu, India.	January 2004.
02	AIMTDR Conference,	VIT, Vellore	Decr, 2004
03	International conference on Recent Advances in Materials Processing Technology.	National Engineering College, Kovilpatti, Tamilnadu, India,	February 2005.
Seminars Attended			
01	National Seminar on “Management of Technical Education in the 21 st Century”	ISTE-XXIX Annual Convention, Kongu Engineering College Perunthurai, Erode	10-12-1999
02	Modern Trends in Engineering Education	ISTE TN&P Section Third Annual Convention, MG Polytechnic, Nagarkoil	18-11-2000
03	Seminar on “Technical Education in the Contest of New Economic”	ISTE TN&P Section Fourth Annual Convention, Velammal Engineering College, Chennai	15-09-2001
04	National Seminar on “Reaching the unreachd: A Challenge to Technical Education”	XXXIII ISTE Annual Convention, Kumaraguru College of Technology, Coimbatore.	27-30 Dec 2003

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

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Sl. No.	Title of the Workshop	Date
01	Workshop on “Metal Forming and Powder Metallurgy” under TEQIP Community Services	NIT, Trichy, 28-01-08 to 30-01-08
02	AICTE-MHRD sponsored FDP on “Composite Materials: Processing Challenges and Opportunities”	Two weeks (13 th – 24 th July 2009)

18. Invited Talks delivered

Sl. No.	Title of the Workshop	Date
01	Workshop on “Metal Forming and Powder Metallurgy” under TEQIP Community Services	NIT, Trichy, 28-01-08 to 30-01-08
02	AICTE-MHRD sponsored FDP on “Composite Materials: Processing Challenges and Opportunities”	Two weeks (13 th – 24 th July 2009)
	Delivered more than 10 Invited lectures in various Short term courses	

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life member	Indian Society for Technical Education.	LM 37029
Life Member	Institution of Engineers	

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20. Academic Foreign Visits: Nil

Country	Duration of Visit	Programme

21. Publications

(A) Refereed Research Journals:

(a) Publication : 40

SCI Journals: 25

International Journals:

1. R Narayanasamy, C Sathiya Narayanan [Some aspects on fracture limit diagram developed for different steel sheets](#) Materials Science and Engineering: A 417 (1), 197-224 2006 – Citation 41
2. R Narayanasamy, C Sathiya Narayanan [Forming, fracture and wrinkling limit diagram for IF steel sheets of different thickness](#) Materials & Design 29 (7), 1467-1475, 2008 – Citation 23
3. R Narayanasamy, NL Parthasarathi, C Sathiya Narayanan [Effect of microstructure on void nucleation and coalescence during forming of three different HSLA steel sheets under different stress conditions](#) Materials & Design 30 (4), 1310-1324, 2009 – Citation 20
4. R Narayanasamy, C Sathiya Narayanan [Forming limit diagram for interstitial free steels Part I](#) Materials Science and Engineering: A 399 (1), 292-307, 2005 – Citation 20
5. K Elangovan, C Sathiya Narayanan, R Narayanasamy [Modelling of forming limit diagram of perforated commercial pure aluminium sheets using artificial neural network](#) Computational Materials Science 47 (4), 1072-1078, 2010 – Citation 14
6. R Narayanasamy, CS Narayanan [Experimental analysis and evaluation of forming limit diagram for interstitial free steels](#) Materials & design 28 (5), 1490-1512, 2007 – Citation 14
7. R Narayanasamy, NL Parthasarathi, C Sathiya Narayanan, T Venugopal [A study on fracture behaviour of three different high strength low alloy steel sheets during formation with different strain ratios](#) Materials & Design 29 (9), 1868-1885, 2008 – Citation 13
8. R Narayanasamy, C Sathiya Narayanan [Formability of HSLA and EDDQ steels of tube products of India](#) Indian journal of engineering & materials sciences 12 (2), 141-150, 2005 – Citation 10

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9. R Narayanasamy, CS Narayanan [Wrinkling behaviour of interstitial free steel sheets when drawn through tapered dies](#) Materials & design 28 (1), 254-259, 2007 – Citation 9
10. R Narayanasamy, CS Narayanan [Forming limit diagram for Indian interstitial free steels](#), Materials & design 27 (10), 882-899, 2006 – Citation 8
11. R Narayanasamy, CS Narayanan, P Padmanabhan, T Venugopalan [Effect of mechanical and fractographic properties on hole expandability of various automobile steels during hole expansion test](#) The International Journal of Advanced Manufacturing Technology 47 (1-4), 365-380, 2010 – Citation 6
12. R Narayanasamy, C Sathiya Narayanan [Forming limit diagram for interstitial free steels supplied by Ford India Motors](#) Materials & design 28 (1), 16-35, 2007 – Citation 5
13. R Narayanasamy, NL Parthasarathi, R Ravindran, CS Narayanan [Strain limit of extra galvanized interstitial-free and bake hardened steel sheets under different stress conditions](#) Journal of Iron and Steel Research, International 15 (5), 56-60, 2008 – Citation 4
14. R Narayanasamy, NL Parthasarathi, R Ravindran, CS Narayanan [Analysis of fracture limit curves and void coalescence in high strength interstitial free steel sheets formed under different stress conditions](#) Journal of Materials Science 43 (9), 3351-3363, 2008 – Citation 4
15. R Narayanasamy, J Satheesh, CS Narayanan [Experimental evaluation of wrinkling limit diagrams for aluminium alloy 5052 sheets annealed at different temperatures](#) The Journal of Strain Analysis for Engineering Design 43 (3), 149-163, 2008 – Citation 3
16. R Narayanasamy, C Sathiya Narayanan, NL Parthasarathi [Some analysis on stress and strain limit for necking and fracture during forming of some HSLA steel sheets](#) Materials Science and Engineering: A 445, 427-439, 2007 – Citation 3
17. [M. Ravi chandran, C. Sathiya Narayanan, NL Parthasarathi, R. Ravindran](#) R Narayanasamy Effect of annealing temperature on void coalescence in 5086 Aluminium alloy formed under different stress conditions, [International Journal of Mechanics and Materials in Design](#), 293-307, Dec 2006 – Citation 3
18. R Narayanasamy, J Satheesh, CS Narayanan [Effect of annealing on combined forming, fracture and wrinkling limit diagram of Aluminium 5086 alloy sheets](#) International Journal of Mechanics and Materials in Design 4 (1), 31-43, 2008 – Citation 2
19. R Narayanasamy, CS Narayanan [Evaluation of limiting strains and strain distribution for interstitial free steel sheets while forming under different strain conditions](#) Materials & design 28 (5), 1555-1576, 2007 – Citation 2
20. K Elangovan, CS Narayanan, R Narayanasamy [Modelling the correlation between the geometrical features and the forming limit strains of perforated Al 8011 sheets](#)

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- [using artificial neural network](#) International journal of material forming 4 (4), 389-399, 2011 – Citation 1
21. L Selvarajan, CS Narayanan, R Jeyapaul [Optimization of Process Parameters to Improve Form and Orientation Tolerances in EDM of MoSi₂-SiC Composites](#) Materials and Manufacturing Processes, 2014.
 22. 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 (3), 253-259, 2014
 23. S Dhanabalan, K Sivakumar, CS Narayanan [Optimization of machining parameters of EDM while machining Inconel 718 for form tolerance and orientation tolerance](#) INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES 20 (5), 391-397, 2013.
 24. R Narayanasamy, M Ravi Chandran, C Vanitha, C Sathiya Narayanan [Effect of annealing on forming limit diagram and crystallographic textures of aluminium 5086 grades annealed at four different temperatures](#) Materials Science and Technology 25 (10), 1193-1206, 2009.
 25. V Balasubramaniam, N Baskar, CS Narayanan [Effect of process parameters on the electrical discharge machining of aluminum metal matrix composites through a response surface methodology approach](#) Science and Engineering of Composite Materials, 2014.

NON SCI JOURNALS: 15

1. S Murugesan, K Balamurugan, CS 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 (2), 161-171, 2012 – Citation 7
2. K Elangovan, C Narayanan [Application of Taguchi approach on investigation of formability for perforated Al 8011 sheets](#) International Journal of Engineering, Science and Technology 2 (5), 300-309, 2010 – Citation 7
3. S Dhanabalan, K Sivakumar, CS Narayanan [Optimization of EDM process parameters with multiple Performance characteristics for Titanium Grades](#) European Journals of Scientific Research, 297-305, 2012 – Citation 6
4. G Venkatachalam, S Narayanan, C Sathiya Narayanan, R Abhishek [Analysis of perforated sheet metals with square and hexagonal holes using finite element method](#) Journal of Manufacturing Engineering 6, 1-4, 2011 – Citation 4
5. G Venkatachalam, S Narayanan, NC Sathiya [Prediction of limiting strains for square pattern–square hole perforated commercial pure aluminium sheets](#), Advanced Materials Research 548, 382-386, 2012 – Citation 3

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6. 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.
7. 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
8. 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.
9. G Venkatachalam, S Narayanan, S Patel Nilay, P 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
10. 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 4 (6), 2012.
11. 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 (3), 411-416, 2012.
12. S Dhanabalan, K Sivakumar, CS Narayanan, [Optimization of Machining Parameters in EDM of Inconel 718 for Form Tolerance Using Grey Relational Analysis,](#) International Review of Mechanical Engineering(IREME), Vol.6, N.7, November 2012
13. Narayanasamy R, Sathiya Narayanan C, and Parthasarathi N L, “Formability studies on ferritic stainless steel 430 grade sheet”, Journal of Manufacturing Engineering, Vol.2, Issue.3. 2007.
14. K.Elangovan, C. Sathiya Narayanan, R. Narayanasamy, Experimental evaluation of forming limit diagram for perforated Al 19000 sheets, Journal of Manufacturing Engineering. Vol.5, Issue 3, 2010, pp 226-236.
15. Venkatachalam, G., Narayanan, S. and Sathiya Narayanan, C., A finite element method based formability analysis of triangular pattern of square hole perforated commercial pure aluminium sheets, International Journal of Mechanical and Materials Engineering, Vol. 7(3), 2012, pp 209-213.

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(b) Research papers published in Conferences

(iii) Number of papers presented in conferences and published in Conference proceedings

(Give details) : **24**

Sl. No.	Details
01	R.Narayanasamy and C.Sathiya Narayanan, “Forming Limit Diagram for Stainless Steel Sheet 430 Grade”, National Conference on Recent Advances in Mechanical Engineering at National Engineering College, Kovilpatti, Tamilnadu, India, January 2004.
02	R.Narayanasamy, C.Sathiya Narayanan, Ponnalagarsamy, “Formability of HSLA and EDDQ steels”, AIMTDR Conference, December 2004.
03	R.Narayanasamy and C.Sathiya Narayanan, “Forming Limit Diagram for Interstitial Free Steels”, International Conference on Recent Advances in Materials Processing Technology at National Engineering College, Kovilpatti, Tamilnadu, India, February 2005.
04	A.Palanisamy, C.Pandivelan, C.Sathiya Narayanan, “Application of Taguchi Method in the optimization of EDM parameters for surface roughness in Titanium”, National Conference on Emerging Trends in Mechanical Engineering and Sciences’ – ETIMES 2007 Bannari Amman Institute of Technology, Sathyamangalam., Page 240, 19 th – 20 th December 2007.
05	A Comparative study on Strain Limit of Extra Galvannealed Interstitial Free and Bake Hardened Steel Sheets under Different Stress Conditions ”, RTME-2007, Saranathan College of Engineering, Trichy, p. 143, 2007.
06	“ Void Analysis of Aluminium Alloy 5086 Formed under Different Stress Conditions At Different Annealing Temperature ”, RTME – 2007, Saranathan College of Engineering, Trichy., p 148., 2007.
07	“ Some Aspects of Formability Studies on Automotive High Strength Interstitial Free (IF) Steels at room Temperature ” NCAM -2007, PSG College of Technology, Coimabatore., p.11, 2007.
08	S. Dhanabalan, K.Sivakumar, and C. Sathiya Narayanan, “Multi – Objective Optimization of EDM Parameters Using Grey Relational Analysis For Titanium Alloy”, INDIA-JAPAN CONFERENCE on Advances In Material Processing in Annamalai University Sep30 and Oct 2 – 2009.
09	S. Dhanabalan, K.Sivakumar, and C. Sathiya Narayanan, “Multiple Performance Characteristic Optimization Of EDM Parameters Using Orthogonal Array And Neural Network For Titanium Alloy” TEAM – TECH 2009 BANGLORE, Nov 19-Nov 21, 2009.
10	S. Dhanabalan, K.Sivakumar, Ganesan.M and C. Sathiya Narayanan, “Multi – Objective Optimization of EDM Parameters Using Intelligent Technique For Titanium Alloy” TEAM – TECH 2009 - BANGLORE. Dt : Nov 19-Nov 21, 2009.
11	S. Dhanabalan, Jeyaprakash.D , K.Sivakumar, and C. Sathiya Narayanan, “Optimal Machining Parameters In Electrical Discharge Machining Using Non Conventional Optimization Technique ” TEAM – TECH 2009 BANGLORE. Dt : Nov 19-Nov 21-2009
12	S. Dhanabalan, K.Sivakumar, and C. Sathiya Narayanan, “Multiple Performance Charecteristic Optimizations Of EDM Parameters Using Robust Technique For Titanium Alloy ” COSMA ‘09 at NIT, CALICUT on Dt : Dec 17-Dec 19-2009.

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13	S. Dhanabalan, K.Sivakumar, and C. Sathiya Narayanan, “The Use Of Orthogonal Array With Taguchi Technique To Optimize The Electrical Discharge Machining Process With Multiple Performance Characteristics For Titanium Grades ” ICAIEA 2010 at Anna university Gundy. Chennai, Jan 6- Jan 8 -2010.
14	V.Balasubramaniam, N.Baskar, C.Sathiya Narayanan, “Investigation of surface quality, MRR, EWR for composite materials in EDM process” – ETAM-2010, National conference on Emerging Technologies in Advanced Manufacturing, K. L.N college of Engineering, Pottapalayam.22-23 Apr, 2010).
15	S. Dhanabalan, K.Sivakumar, and C. Sathiya Narayanan, “Optimization of EDM Parameters for Inconel 718 Using L18 Array with Grey Relational Analysis” AIMTDR ‘10 at Andra University College of Engineering, Vishakapatnam, Dec 13-Dec 15-2010.
16	V.Balasubramaniam, N.Baskar, C.Sathiya Narayanan, “Optimization of EDM Process Parameters for Al 6061 – 3%TiC Composite Using Grey Relational analysis” – AIMTDR-2010, 24 th International conference and 3 rd AIMTDR, Andhra University, Visakhapatnam,A.P, ,13-15 December, 2010.
17	V.Balasubramaniam, N.Baskar, C.Sathiya Narayanan, “Mathematical Modeling and Analysis of Electrical Discharge Machining on Al MMC- 5 vol % SiCp composites” – AIMTDR 2012, 25 th International conference and 4 th AIMTDR- Jadavpur University, Kolkata, 14-16 December, 2012
18	S. Dhanabalan, K.Sivakumar, and C. Sathiya Narayanan, “Optimization of EDM parameters for Titanium alloy using L27 orthogonal array with Taghuchi Technique” AIMTDR 2012, 25 th International conference and 4 th AIMTDR- Jadavpur University, Kolkata, 14-16 December, 2012.
19	V.Balasubramaniam, N.Baskar, C.Sathiya Narayanan, V.Selvaraj, “Grey Relational Analysis approach for machining parameters optimization in EDM process” – 2 nd International conference on advanced Manufacturing and Automation (INCAMA-2013)- Kalasalingam University, Krishnankoil, Tamil Nadu, India, 28 th -30 th Mar, 2013.

(B) Conferences/Workshops/Symposia Proceedings: Nil

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year

(C) Books & Monographs: Nil

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