

Dr. NARENDRANATH S

Professor
Mechanical Engineering
NATIONAL INSTITUTE OF TECHNOLOGY
KARNATAKA
Surathkal-575025,
Mangalore, Karnataka,
INDIA.



DOB: 24-06-1966

Telephone: 0824-2474000 Ext: 3660
Mobile: +91 9448793833
FAX : 0824-2474033,
E-mail : bayalu@nitk.ac.in, snnath88@yahoo.co.in, narenbayalu@gmail.com

1. ACADEMIC QUALIFICATION

DEGREE	YEAR	INSTITUTE	DISCIPLINE
Ph.D.	2006	IIT Kharagpur. West Bengal, India.	Smart Materials
M. Tech.	1993	University BDT College of Engg. Kuvempu University, Karnataka.	Production Engineering & System Technology (PEST)
B.E	1989	Govt. BDT College of Engg. Mysore University, Karnataka.	Mechanical Engineering

2. AREAS OF SPECIALIZATION AND INTEREST

- ❖ Conventional and Advanced Machining Processes
- ❖ Casting and Welding
- ❖ Materials and Characterization
- ❖ Composite Materials
- ❖ Shape Memory Alloys (Smart materials)
- ❖ Equal channel angular press (ECAP)-SPD
- ❖ Corrosion

3. WORK EXPERIENCE

ACADEMICS	RESEARCH	INDUSTRY	TOTAL
23 Yrs	03 Yrs	01 Yrs	27 Yrs

ORGANIZATION/INSTITUTE	DESIGNATION	DURATION
NITK- Surathkal	Professor	06-11-2012 To Till Date
NITK- Surathkal	Associate Professor	06-11-2008 To 06-11-2012
NITK- Surathkal	Assistant Professor	15-04-2007 To 06-11-2008
NITK-Surathkal	Selection grade Lecturer	6-11-2005 To 15-04-2007
NITK-Surathkal	Senior Lecturer	05-11-2000 To 6-11-2005
NITK-Surathkal	Lecturer	05-11-1995 To 5-11-2000
Hindustan Machine Tools Limited	Graduate apprentice	07-12-1994 To 05-11-1995

4. MEMBERSHIP OF PROFESSIONAL BODIES

- ❖ Indian Society of Technical Education (ISTE) – LM 21889 (1996)
- ❖ Metrology Society of India (MSI)-LM 468
- ❖ The Institution of Engineers (IE)-AM 827023/5
- ❖ The Indian Institute of Metals (IIM)-LM 51798
- ❖ **Doctoral Committee** (SRI SIDDHARTHA UNIVERSITY, TUMKUR)
- ❖ **Board of Studies** in Mechanical Engineering (BANGALORE UNIVERSITY)
- ❖ **Board of Examiners** (UG) (SRI SIDDAGANGA INSTITUTE OF TECHNOLOGY)
- ❖ **Elected Committee Member of Mangalore Local Chapter of Institution of Engineers.**
- ❖ **Affiliation Inquiry Committee Member for GOA ENGINEERING COLLEGE**
- ❖ **OBSERVOR: All India Engineering Entrance Examination** (2007, 2008, 2009 (All in Bangalore Centers) and **2010** (Nagpur), **2011** (Mangalore))
- ❖ **Board of studies (Mechanical Engineering)** Malnad College of Engineering Hassan Karnataka
- ❖ **Chief Controller** for Central Evaluation (Mangalore University-June 2003).
- ❖ **Block Warden** – NITK Hostels from 06.02.2001 to 31.06.2003 (3 years).
- ❖ **Treasurer** for Parents Teachers Association (PTA) of KREC English medium School.
- ❖ **Treasurer** for Staff Club of NITK.

5. SUBJECTS TAUGHT for UG / PG

- ❖ Advanced Welding Technology
- ❖ Operation Research
- ❖ Basic Manufacturing Process
- ❖ Material Science and Metallurgy
- ❖ Engineering Drawing
- ❖ Workshop practice
- ❖ Manufacturing Technology
- ❖ Metrology
- ❖ Flexible Manufacturing System
- ❖ Computer Integrated Manufacturing
- ❖ Product Design and Rapid prototype
- ❖ Metal Removal Process

- ❖ Modern Machining Process
- ❖ Destructive/Non-destructive Testing

6. THESIS SUPERVISION

DEGREE	COMPLETED+ UNDER PROGRESS	TOTAL
Ph.D.	09+09	18
M. Tech.	23+02	25
B.E	22+01	23
Guided internships	01	01

7. DOCTORAL STUDENTS

SI No	STUDENTS	DISSERTATION TITLE	COMPLETION	CURRENT POSITION
COMPLETED				
01	Dr. KiranAithal	Development and Characterization of Functionally Graded Al-Si Alloy System and Al-Si/SiC _p Composites using Centrifugal Casting	January-2013	Professor at NMIT- Bangalore
02	Dr. Madhusudhan	Some Studies on Process Parameters in Centrifugal Casting	June-2014	Professor at NMIT- Bangalore
03	Dr. Muralidhar Avvari	Effect Of Equal Channel Angular Pressing On Microstructures And Mechanical Properties Of Wrought AZ Magnesium Alloys	January-2015	Postdoctoral Research Fellow at University of Johannesburg, South Africa
04	Dr. M. Manjaiah,	Analysis and Optimization of Wire Electro Discharge Machining of Ti ₅₀ Ni _{50-x} Cu _x Shape Memory Alloys	February-2015	Assistant Professor at MIT Manipal
05	Dr. Gangadhar N	Condition Monitoring of Single Point Cutting Tool Through Vibration and Tribological Analysis	July-2016	Assistant Professor at Dr. Ambedkar Institute of Technology- Bangalore
06	Dr. Shivaprasad C G	Effect Of Ageing on Microstructure and Mechanical Properties of Al-Si Alloys with Copper Additions	Dec-2016	HAL-Bangalore

07	Dr. Priyaranjan Sharma	Machinability Studies Of INCONEL 706 Super alloy Using Wire Electrical Discharge Machining Process	Jan-2017	Assistant Professor at JK Lakshmipat University, Jaipur, Rajasthan
08	Dr. Madhusudana C. K	Condition Monitoring of Milling Cutter through Vibration and Tribological Studies	Dec-2017	MVJ College of Engineering-Bangalore
09	Mr. Haragovid Soni	Analysis and Optimization of Wire Electro Discharge Machining of Ti50ni50-Xcox (X=1, 5, 10) Shape Memory Alloys	Sep-2018	Research Scholar at NITK
ON-GOING				
01	Mr. Ravindra Badiger	Characterization Of Inconel 625 Alloy Joint Formed Through Microwave Hybrid Heating Process	In progress	Research Scholar at NITK
02	Mr. Mahesh Davanageri	Experimental and Computational Analysis of Aged Duplex Stainless Steel on Wear and Fatigue Behavior	In progress	Associate Professor at SCEM-Mangalore
03	Mr Sachin Kumar	Friction Stir welding	In progress	Associate Professor At Reva University-Bangalore
04	Mr. Sriram Mukunda	Effect of Alloying and Aging on Mechanical Properties of Copper Containing NITINOLS	In progress	Assistant Professor at NMIT- Bangalore
05	Mr. Abhinaba Roy	Investigation of machining characteristic of NiTi based shape memory alloys using WEDM.	In progress	JRF at NITK
06	Mr. Gajanan M Naik	Study the corrosion behavior of wrought Mg alloys processed by sever plastic deformation for naval application	In progress	JRF at NITK
07	Mr. Sachin B	An Investigation on the Influence of Cryogenic Diamond Burnishing on 17-4 PH Stainless Steel	In progress	Research scholar at NITK
08	Mr. Manoj I V	Wire-EDM	In progress	Research scholar at NITK
09	Mr. Prathvirajan	Studies on mechanical properties and corrosion behavior of ZE41 magnesium alloy subjected to equal channel angular pressing.	In progress	Research scholar at NITK

8. COMPLETED PG PROJECTS

SI. NO.	PROJECT TITLE	YEAR
01	Effect of ageing temperature on tribological and mechanical properties of Ti-Ni-Cu Shape Memory Alloys.	2007
02	Comparison study of corrosion behaviour of Ti-Ni -Cu shape memory alloys in hank's solution and sea water	2008
03	Influence of Carburizing Practice and Surface Carbon Content on Bending Fatigue Properties of Sae8822carburized Gear Steel.	2008
04	Tribological Study of TiNiCu Shape Memory Alloys	2009
05	Implementation of PID Controller For Temperature Control of Engine	2010
06	Corrosion behavior and hardness study of TiNiCu shape memory alloy	2010
07	Wear behavior of Ni (50-x) Ti Cu _x shape memory alloys	2010
08	Proto type of home automation system	2011
09	Defense surveillance robot	2011
10	8051 micro controller based automatic car parking system	2011
11	Influence of copper on mechanical properties of nitinol	2012
12	Machining of TiNiCu shape memory alloys using wire electric discharge machine	2012
13	Optimization of wire electric discharge machining parameters TiNiCu alloy	2013
14	Improvement of mechanical properties of az31 wrought magnesium alloy processed by SPD technique	2013
15	Design and fabrication of a device for estimating the state of charge of a battery	2013
16	Design and fabrication of coconut tree climbing robot	2013
17	Design and fabrication of robot arm for coconut harvesting	2013
18	Geometrical Error Modeling For A High Turning Machine	2014
19	Hybrid design electro thermal polymeric micro gripper with embedded piezoelectric force sensors.	2014
20	Thermomechanical analysis of shielded metal arc and gas tungsten arc welded steel butt joints.	2015
21	Studies on tooling concepts for realizing cocured structures using out-of-autoclave (OOA) prepregs.	2015
22	Development of wire electric discharge turning process using wire-EDM and parametric optimization of process parameters for Inconel 718.	2016
23	Investigation on wear and Corrosion behaviour of equal Channel angular pressed AZ80 Wrought mg alloy	2018

9. UG PROJECTS

S. NO.	PROJECT TITLE	YEAR
01	Effect of modified design on efficiency of a vertical axis wind power	1996
02	Development of software package for making control charts for statistical quality control	1997

03	Theoretical analysis for retrofitting r134a and r-717 into existing r12 vapour compression system of dairy plant at Mukka.	1998
04	Mechanical design of ammonia compressor and software for the theoretical analysis for the retrofitting of r-717 into exciting r-12 vapour for a vapour compression system of dairy plant at Mukka.	1999
05	Energy audit and management at new Mangalore port	2001
06	Theoretical analysis and fabrication of an alternate water jet machine	2002
07	Production and characterisation of Fe-Al intermetallic through liquid metal and powder metallurgy route	2003
08	An iterative cost-effective, isotropic thinning algorithm applied for modelling of wave propagation digitally	2007
09	Design and optimization of workshop scheduling to minimize idle time	2008
10	Effect of stochastic measurement noise on guided missile system performance	2009
11	Study of the relationship between welding current and hardness and the estimation of welding current in MIG welding	2010
12	Design of a control system for controlling weld bead penetration depth in tungsten inert gas welding	2011
13	Study of the effect of sodium and calcium bentonite binders on the properties of green sand castings	2012
14	Design and fabrication of horizontal axis tidal turbine system	2013
15	Study of blended wax patterns in investment casting process	2013
16	Desalination of sea water using directional solvent extraction method	2014
17	Power generation using piezoelectric materials	2014
18	Design of human powered hand crank washing machine	2015
19	Development of a novel arecanut dehusking mechanism	2015
20	Optimizing turning process of a glass fiber reinforced polymer under various machining parameters	2016
21	Effect of hot rolling on mechanical properties of TiNi Shape memory alloys.	2017
Ongoing Projects		
22	Optimization of Wire EDM parameters for H11 tool steel using Taguchi method and Grey relational analysis	2018
23	Design and development of T-shaped rotor based magnetorheological fluid brake	2018

10. INTERNSHIP PROJECT

S. NO.	PROJECT TITLE	YEAR
01	Experimental Investigation and Optimization of WEDM process parameters for Ti ₅₀ Ni ₄₈ Co ₂ Shape Memory Alloy	2017

11. ADMINISTRATIVE RESPONSIBILITIES

- ❖ Coordinator : Convocation Reception
- ❖ Faculty Advisor : 1997 onwards
- ❖ Secretary, : NITK Student's Co-operative Society from 20/12/2007 to 31.03.2015
- ❖ Laboratory In charge : Material Characterization Lab
- ❖ Secretary : DUGC-2008
- ❖ Secretary : DPGC-2009
- ❖ Secretary : DRPC-2010
- ❖ Finance Warden : NITK Hostels from 08/07/2010 to 31/03/2014
- ❖ Hostel : Professor In charge of hostel affairs from 1/4/2014 To 6/4/2016
- ❖ Chairmen : DUGC-2012
- ❖ Coordinator : Examination
- ❖ Chairmen : DPGC-2016
- ❖ HOD : Dept. of Mech. Engg. 23-1-2017-Till date.

12. ACADEMIC ACTIVITIES

- ❖ Master thesis evaluations : NITK-Surathkal
- ❖ Doctoral thesis Evaluations : NITK-Surathkal, NIT-Tiruchirappalli, NIT-Agartala, NIT-Warangal, VTU-Belgaum, UVCE-Bengaluru, SIT, SSIT-Tumkur, JNTU-Hyderabad.
- ❖ Reviewer : Elsevier, Springer. Etc.

13. CONTINUING EDUCATION PROGRAMMES/ SHORT TERM COURSES/ WORKSHOPS/ SEMINARS ORGANISED

TITLE OF PROGRAM	PERIOD	FUNDING AGENCY
Joint Organizing Secretary International conference on Frontiers in Mechanical Engineering-FIME-2010	20 th – 22 th May 2010	DST and NITK
Organizing Secretary International Conference on Advanced in Manufacturing and Materials Engineering-ICAMME-2014	27 th -29 th March-2014	DST and CSIR
Organizing Secretary Expert Lecture by Prof. Aleksandr Zhilin, Dept. of Material Science, Ural Federal University, Russia	12 th and 17 th November 2015	NITK
Organizing Secretary Expert Lecture by Prof. Finkelstein Arkady Dept. of Mechanical Engg, Ural Federal University, Russia	13 th and 16 th November 2015	NITK
GIAN Course, Co-coordinator:	December 18-22, 2016	NITK

“Hybrid Composites: Manufacturing, Mechanics and Materials”		
Chairman 25th National Conference on Internal Combustion Engines and Combustion	December 15-17, 2017	NITK
Chairman International Conference on Design, Materials & Manufacture (IcDeM 2018)	January 29-31, 2018	NITK

14. HONORS AND AWARDS

- ❖ **Best Poster Award:** “Dry Sliding Wear Behavior of aged Ti-rich TiNi Shape Memory Alloys” International Conference on Advanced Materials Design and Development, December 14th - 16th 2005, Goa, India (Jointly organized by IIT-KGP and Georgia Tech, USA).
- ❖ Certified that “Nonconventional Machining of Shape Memory Alloys: A Review”, *Transactions of Nonferrous Metals Society of China*, 24, (2014) 12-21. Featured in the Science direct top 25 List of most downloaded articles **Ranked 3rd on the top 25**
- ❖ Certified that “Effect of Electrode Material in Wire Electro Discharge Machining Characteristics of $Ti_{50}Ni_{50-x}Cu_x$ Shape Memory Alloy”, *Precision Engineering*. 41(2015)68–77.

-Topmost downloaded article

15. VISIT OF FORIGEN UNIVERSITIES

SL.NO	UNIVERSITIES	FUNDING AGENCY
01	Herceg Novi, Serbia and Montenegro (September 10-14, 2007-Attending Conference), Institute of Technical Sciences, SERBIA	TEQIP-I
02	Inha University, Incheon, South Korea (9 th Nov – 8 th Dec 2008)	TEQIP-I
03	Oakland University, Michigan, USA (10 th May-8 th June 2011)	CPDA
04	Ural Federal University, Yekaterinbug, RUSSIA (24 th May-12 th June 2014)	CPDA
05	University of Campinas, Campinas, Sao Paulo, Brazil (8 th October- 16 th November 2015)	TEQIP-II
06	ARIEL University, ISREL, during July 25th to 29th 2016.	TEQIP
07	Ural Federal University, Yekaterinbug, RUSSIA (4 th -14 th July 2015)	Sponsored by Ural Federal University, Yekaterinbug, RUSSIA
08	Harbin Institute of Technology, Harbin., China (7-9 th Aug 2017)	Sponsored by HIT, Harbin, China

16. EXPERT LECTURE DELIVERED AS A KEYNOTE SPEAKER

- ❖ The 2nd International Forum on Surface and Microscopy, 2017 (IFSM 2017) Chinese Society for Optical Engineering invited as keynote speaker on “Recast Layer Thickness and Grain Size Measurement” during 7-9th Aug 2017 in Harbin Institute of Technology, Harbin., China. (Sponsored by HIT, Harbin, China).
- ❖ Faculty development program and national conference on emerging trends in Mechanical Engineering on 7th August 2015 at St. Joseph Engineering College Vamanjoor, Mangalore India. Invited as Chief Guest and Keynote speaker.
- ❖ Third research symposium as an expert in the department of production and mechanical engineering on 12th-13th March 2016 at Shri Guru Gobind Singhji Institute of Engineering Technology Nanded, Maharashtra India.
- ❖ Delivered expert lecture on Latest Developments in Advanced Materials at Malnad College of Engineering Hassan, 25-26th Feb 2012.
- ❖ Delivered expert lecture on AICON-11, National level conference on 28-29th January held at Chhatrapati Shivaji Institute of Technology Durg, Chhattisgarh.
- ❖ Talk on **Development Advanced composite components in aerospace and automobile applications**, **Bapuji** Institute of Engineering and Technology, Davangere, 25th January 2007.
- ❖ Delivered lecture on **Rolling and Characterization of Shape Memory Alloys** in the workshop on advances in manufacturing and management organized by Mechanical Engineering Department on **April 2nd 2009 at Rural Engineering College**, Bidar.
- ❖ Delivered a technical talk on **Shape Memory Alloys**. The Institute of **Indian Foundry Men Mangalore chapter** held at Mangalore on **21st may 2007**.
- ❖ INVITED SPEAKER, AICON-2011, Chhatrapathi Shivaji Institute of Technology, Durg, Chhatisghada. 28th – 29th Jan 2011.
- ❖ Delivered expert lecture on **Latest Developments in Advanced Materials** at Malnad College of Engineering Hassan, 25-26th Feb 2012.

17. DETAILS OF SPONSORED/CONSULTANCY PROJECTS HANDLED

1. **Title:** Investigation of machining characteristic of NiTi based shape memory alloys using WEDM. (Completed)
Sponsoring Agency: DST-SERB (SB-SR/S3/MMER/0067/2013)
Period: 3Years (Jan 2014-17), **Amount:** 16.32, 000/-
2. **Title:** Study the corrosion behavior of Wrought Mg Alloys processed by Severe Plastic Deformation for Naval Applications.
Sponsoring Agency: Naval Research Board (NRB/4003/PG/366)
Period: 3years (Jan 2016-19), **Amount:** 22, 80,320/-

18. LIST OF PUBLICATIONS

18.1 Details of chapters published

SL. NO.	TITLE	PUBLISHER	YEAR
01	Recent Developments in Advanced Materials	Sponsored by AICTE/ISTE, New Delhi	2008
02	Faculty Awareness Camp on Entrepreneurship (FACE)	Sponsored by ISTENSTDEB, New Delhi	2008
03	Emerging Areas of Technology in Smart Materials and Manufacturing	Sponsored by AICTE/MHRD - New Delhi	2008
04	Proceeding Developed	International conference Frontiers in mechanical Engineering – FIME 2010	2010
05	Proceeding Developed	International National Conference on Advances in Manufacturing and Materials Engineering- ICAMME-2014.	2014

18.2 INTERNATIONAL JOURNALS –78

Sl. No.	Authors	Title of the paper	Name of the journal/ conferences	Year publication	Remark
1	Ravindra I Badigera, Narendranath S, Srinath M.S	Optimization of Parameters Influencing Tensile Strength of Inconel625 Welded Joints Developed Through Microwave Hybrid Heating,	Materials Today: Proceedings 5 (2018) 7659–7667	2018	1

2	Gajanan M Naik, Gopal D Gote, Narendranath S,	Microstructural and Hardness evolution of AZ80 alloy after ECAP and post-ECAP processes,	Materials Today: Proceedings 5 (2018) 17763–17768.	2018	1
3	Sachin B, Narendranath S, D Chakradhar,	Effect of Cryogenic Diamond Burnishing on Residual Stress and Microhardness of 17-4 PH Stainless Steel	,Materials Today: Proceedings 5 (2018) 18393–18399.	2018	1
4	Divya Reddy, Hargovind Soni and Narendranath S,	Experimental Investigation and Optimization of WEDM process parameters for Ti50Ni48Co2 Shape Memory Alloy,	Materials Today: Proceedings 5 (2018) 19063–19072.	2018	1
5	Madhusudana C. K, Hemantha Kumar and Narendranath S,	Fault Diagnosis of Face Milling Tool using Decision Tree and Sound Signal,	Materials Today: Proceedings 5 (2018) 12035–12044.	2018	1
6	Hargovind Soni, Narendranath S. and Ramesh M R,	Effect of machining process parameters on productivity rate and surface roughness of machined TiNiCo alloy	Materials Today: Proceedings 5 (2018) 19166–19171.	2018	1
7	Sachin kumara, Narendranath S, Chakradhar D,	Effect of FSW on microstructure and hardness of AA6061/SiC/fly ash MMCs,	Materials Today: Proceedings 5 (2018) 17866–17872.	2018	1
8	Abhinaba Roy, Narendranath S.,	Effect of spark gap voltage and wire electrode feed rate on	Materials Today: Proceedings 5 (2018) 18104–18109	2018	1

		machined surface morphology during Wire EDM process,			
9	Abhinaba Roy, Narendranath S	Impact of variation in wire electro discharge machining responses of homologous TiNiCu alloys for smart applications: An experimental investigation,	Mater. Res. Express in press https://doi.org/10.1088/2053-1591/aaddee .	2018	1
10	Sachin Kumar, S. Narendranath and D. Chakradhar	Process parameters optimization for FSW of AA6061/SiC/fly ash AMCs using Taguchi technique	Emerging Materials Research Journal. 7 (3) 1-8. doi.org/10.1680/jemmr.17.00047.	2018	1
11	Sachin, B., Narendranath, S. and Chakradhar, D	Experimental evaluation of diamond burnishing for sustainable manufacturing.	Materials Research Express. 5 106514. DOI:10.1088/2053-1591/aadb0a/meta	2018	1
12	Gajanan M Naik, Gopal D Gote, Narendranath S , S. S. Satheesh Kumar	The impact of homogenization treatment on Microstructure Microhardness and Corrosion behavior of wrought AZ80 magnesium alloys in 3.5wt.% NaCl solution	” Mater. Res. Express 5 086513. https://doi.org/10.1088/2053-1591/aad31f .	2018	1
13	N. Gangadhar, Hemantha kumar, S. Narendranath	Fault Diagnosis of Single Point Cutting Tool through Discrete Wavelet Features of Vibration Signals using Decision Tree Technique and Multilayer Perceptron.	Journal of Vibration Engineering and Technologies, Vol. 5, No. 1.35-44.	2017	1
14	Mahesh B. Davanageri, Narendranath S.	Influence of ageing time on hardness, microstructure and wear behaviour of AISI2507 super duplex stainless steel.	Material Research Express, (Accepted)	2017	1

15	Hargovind Soni, Narendranath S. , Ramesh M. R	Effects of Wire electro discharge machining process parameters on machined surface of Ti ₅₀ Ni ₄₉ Co ₁ shape memory alloy.	Silicon Journal Springer. (Accepted)	2017	1
16	Ravindra Ishwar Badiger, S Narendranath	Microstructure and mechanical properties of Inconel-625 welded joint developed through microwave hybrid heating.	Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture. (Accepted)	2017	1
17	Gajanan M Naik, Narendranath S	A parametric optimization of Wire-ED Turning process parameters on Material Removal Rate of INCONEL 718.	Journal of Mechanical Engineering and Biomechanics, Volume 2, Issue 2, Page 8-14, ISSN- 2456-219X.	2017	2
18	Priyaranjan Sharma, D. Chakradhar · Narendranath S.	Analysis and Optimization of WEDM Performance Characteristics of Inconel 706 for Aerospace Application.	Silicon DOI 10.1007/s12633-017-9549-6,	2017	1
19	Abhinaba Roy, Narendra Nath S , Dumitru Nedelcu,	Experimental Investigation On Variation of Output Responses of As Cast TiNiCu Shape Memory Alloys Using Wire EDM.	International Journal of Modern Manufacturing Technologies, ISSN 2067–3604, Vol. IX, No. 1	2017	1
20	Soni, Hargovind; S , Narendranath ; M R, Ramesh, Dumitru Nedelcu	Investigation of input process parameters of wire electro discharge machining of Ti ₅₀ Ni _{50-x} Co _x , (x=1 and 5) alloys using hybrid combinations of multi objective optimization techniques.	Measurement, MEAS-D-16-0186. (Revised)	2017	1
21	Soni, Hargovind; S , Narendranath ; M R, Ramesh	An experimental study of influence of wire electro discharge machining parameters on surface integrity	Journal of Materials Research, Vol. 32 Issue-16, page 3200-3208.	2017	1

		of TiNiCo shape memory alloy.			
22	N. Gangadhar, Kiran Vernekar, Hemantha Kumar and S. Narendranath	Fault Diagnosis of Single Point Cutting Tool through Discrete Wavelet Features of Vibration Signals using Decision Tree Technique and Multilayer Perceptron.	Journal of Vibration Engineering and Technologies. (Accepted to publish- JVET Vol 5 No. 2.	2017	1
23	Mahesh B. Davanageri, S, Narendranath	Dry Sliding Wear Behavior of Super Duplex Stainless Steel AISI 2507: a Statistical Approach, Archives of Foundry Engineering.	Archives of Foundry Engineering 16.4 (2016): 47-56.DEGRYUTER Publisher.	2016	1
24	Madhusudana C. K., Hemantha Kumar and Narendranath S.	Fault Detection of Face Milling Cutter through Spectrum, Cepstrum and Wavelet Analysis.	Journal of Vibration Analysis, Measurement and Control, 4(1), 10-28.	2016	1
25	Gajanan M Naik, Narendranath S.	Effect of machining parameters in wire-electrical discharge turning process: a review.	International Journal of Advanced and Innovative Research, (2278-7844), # 171, Volume 5 Issue 2.	2016	2
26	Mallaiah Manjaiah, Rudolph Frans Laubscher, Sannayellapa Narendranath, Sathyappa Basavarajappa, Vinayak Neelakanth Gaitonde	Evaluation of wire electro discharge machining characteristics of Ti 50 Ni 50– x Cu x shape memory alloys– CORRIGENDUM.	Journal of Materials Research.	2016	1
27	M Manjaiah, S Narendranath, S Basavarajappa, VN Gaitonde	Influence of process parameters on material removal rate and surface roughness in WED-machining of Ti50Ni40Cu10 shape memory alloy.	International Journal of Machining and Machinability of Materials.	2016	1

28	N. Gangadhar, Madhusudana C. K, Hemantha Kumar, S. Narendranath.	Recurrence Quantification Analysis to Classify the Tool Condition of Tungsten Carbide while Machining Die Steel.	International journal of condition monitoring (IJCM), Vol. 6, No. 1. 2-8.	2016	2
29	P Sharma, D Charkradhar, Narendranath S	Multi-Response Optimization of W-edm Process Using Hybrid Approach while Machining Inconel 625 Super alloy.	Journal of Machining and Forming Technologies 6 (3-4), 107-116.	2015	1
30	M Manjaiah, S Narendranath, S Basavarajappa, VN Gaitonde	Effect of electrode material in wire electro discharge machining characteristics of Ti ₅₀ Ni _{50-x} Cu _x shape memory alloy.	Precision Engineering 41, 68-77.	2015	1
31	M. Manjaiah, S. Narendranath, S. Basavarajappa	Wire Electro Discharge Machining Performance of Ti ₅₀ Ni ₄₅ Cu ₅ Shape Memory Alloy.	Silicon, 8.3 (2016): 467-475 DOI 10.1007/s12633-014-9273-4.	2015	1
32	J. Dutta, Narendranath S, Zhilin Aleksandr,	Application of Differential Transform Method for estimating Thermal Cycle developed in GTA Welding of High Carbon Steel Joints.	International Journal of Engineering Research in Africa (Trans Tech Publications), Vol.14, pp.37-48.	2015	1
33	J. Dutta, Narendranath S.	Investigation of Arc Welding Variables Influenced by Temperature Cycle Developed in High Carbon Steel Welded Butt Joints and its Effect on Distortion.	International Journals of design and Manufacturing Technologies Vol.9 (1), pp.6- 11.	2015	1
34	P Sharma, D Charkradhar, Narendranath S	Evaluation of WEDM performance characteristics of Inconel 706 for turbine disk application.	Materials and Design, 88,558–566.	2015	1

35	Ravindra Ishwar Badiger, S. Narendranath	Joining of Inconel-625 alloy through microwave hybrid heating and its characterization.	Journal of Manufacturing Processes 18, 117–123.	2015	1
36	Gangadhar N., Kumar, H., and Narendranath, S.	Condition Monitoring of Single Point Cutting Tool through Vibration Signals using Decision Tree Algorithm.	Journal of Vibration Analysis, Measurement and Control, 3(1), 34-43.	2015	1
37	Hargovind Soni, Narendranath S. and Ramesh M. R.	Effect of machining parameters on wire electro discharge machining of shape memory alloys analyzed using Grey entropy method.	Journal of material science and mechanical Engineering (JMSME) Vol.2, Issue 13 October-December.	2015	2
38	Mahesh B. Davanageri, S, Narendranath	Influence of Heat Treatment on Microstructure, Hardness and Wear Behavior of Super Duplex Stainless Steel AISI 2507.	American Journal of Materials Science, Scientific & Academic Publishing Co., USA.	2015	1
39	Shivaprasad C.G, Kiran Aithal, Narendranath S, Vijay Desai, P.G. Mukunda	Effect of combined grain refinement and modification on microstructure and mechanical properties of hypoeutectic, eutectic and hypereutectic Al-Si alloys.	Int. J. Microstructure and Materials Properties, Vol. 10, Nos. 3/4, Inderscience Publishers.	2015	1
40	Shivaprasad C., Narendranath S, Vijay Desai, Venkateswarlu K	Influence of combined grain refinement and modification on the microstructure, tensile strength and wear properties of Al-15Si, Al-15Si-4.5Cu alloys.	Int. J. Mater. Res. (Formerly Z. Metallkd) 106 .9 Hanser Publishers, Munich, Germany.	2015	1
41	Shivaprasad C.G, Kiran Aithal, Narendranath S, Vijay Desai, P.G. Mukunda,(2015)	The Influence of the Addition of 4.5 wt.% of Copper on Wear Properties of Al-12Si Eutectic Alloy.	Jordan Journal of Mechanical and Industrial Engineering 9(3)2015	2015	1
42	Shivaprasad C.G, Kiran Aithal, Narendranath	Effects of 4.5% Copper addition and Melt Treatment on	Applied Mechanics and Materials Vol. 766 pp 410-415 Trans Tech Publications Ltd, Switzerland.	2015	2

	S, Vijay Desai, P.G. Mukunda,	Microstructure and Wear Properties of Al-7Si Alloy.			
43	Muralidhar Avvari, Narendranath.S , Shivananda Nayaka H	Effect of Secondary Mg ₁₇ Al ₁₂ Phase on AZ80 Alloy processed by Equal Channel Angular Pressing (ECAP).	Silicon, (Springer), DOI: 10.1007/s12633-015-9349-9.	2015	1
44	Madhusudana C. K., Sindhu Budati, Gangadhar N., Hemantha Kumar and Narendranath S.	Fault Diagnosis studies of Face Milling Cutter using Machine Learning Approach.	Journal of Low Frequency Noise, Vibration and Active Control Vol 15(2)128-138.	2014	1
45	N. Gangadhar, Hemantha Kumar, and S. Narendranath	Tool Condition Monitoring using Surface Roughness and Chip Formation.	Industrial Lubrication and Tribology.	2014	2
46	N. Gangadhar, Hemantha kumar, S. Narendranath and V. Sugumaran., (2014)	Fault diagnosis of single point cutting tool using vibration signal through decision tree algorithm.	Procedia Materials Science, 5, 1434-1441.	2014	1
47	N. Gangadhar, Hemantha Kumar, Narendranath S , Sugumaran V, Amarnath M, (2014)	Fault Diagnosis of Bearings through Vibration Signal Using Decision Tree Algorithm.	Technology Letters, Vol.1, No.7, 14-18.	2014	2
48	J. Dutta, Narendranath S. ,	Influence of Thermal Cycle on Temperature Dependent Process Parameters involved in GTA Welded High Carbon Steel Joints.	International Journal of Mechanical, Aerospace, Industrial and Mechatronics Engineering, Vol.8 (9), pp.1595-1601.	2014	2
49	J. Dutta, Narendranath S.	Estimation of Cooling Rate and its Effect on Temperature Dependent properties in GTA welded High Carbon Steel Joints.	Review of Industrial Engineering Letters, Vol.1 (3), and pp.5566.	2014	2
50	J. Dutta, Narendranath S.	Experimental and Analytical Investigation of Variation of	Journal of Mechanical Engineering, Vol ME 44(2), pp 80-86.	2014	1

		Thermal Parameters developed in High Carbon steel Joints formed by GTA Welding.			
51	J. Dutta, Narendranath S	A Parametric Study of Temperature Dependent Properties Influenced due to Transient Temperature Field Developed in Arc Welded Steel Butt Joints.	International Journal of Advances in Engineering Science, vol.4 issue 3, April, pp.1-8.(e-ISSN:2231-0347.	2014	2
52	M. Manjaiah, S. Narendranath, S. Basavarajappa	Review on non-conventional machining of shape memory alloys.	Transactions of Nonferrous Metals Society of China 24 (1), 12-21.	2014	1
53	M Manjaiah, S Narendranath, S Basavarajappa, VN Gaitonde	Wire electric discharge machining characteristics of titanium nickel shape memory alloy.	Transactions of Nonferrous Metals Society of China 24 (10), 3201-3209.	2014	1
54	M Manjaiah, S Narendranath, S Basavarajappa	A Review on Machining of Titanium based alloys using EDM and WEDM.	Rev. Adv. Mater. Sci 36 (2), 89-111.	2014	1
55	M Manjaiah, S Narendranath, S Basavarajappa, VN Gaitonde	Investigation on material removal rate, surface and subsurface characteristics in wire electro discharge machining of Ti50Ni50-xCux shape memory alloy.	Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications.	2014	1
56	M.manjaiah, S. Narendranath S.Basavarajappa	Non-conventional shape memory alloy processing summary (English).	Transactions of Nonferrous Metals Society of China.	2014	1
57	M Manjaiah, S Narendranath, Javad Akbari	Optimization of Wire Electro Discharge Machining Parameters to Achieve Better MRR and Surface finish.	Procedia Materials Science.	2014	1
58	M manjaiah, s Narendranath, S basavarajappa	Review of unconventional processing of shape memory alloy.	Transactions of Nonferrous Metals Society of China.	2014	1

59	Muralidhar Avvari, Narendranath. S, (2014)	Influence of Route-R on Wrought Magnesium AZ61 Alloy Mechanical Properties through Equal Channel Angular Pressing.	Journal of Magnesium and Alloys, Vol. 2, No. 2, 159-164.	2014	2
60	Muralidhar Avvari, Narendranath. S, Shivananda Nayaka H	Effect of Processing Routes on AZ31 Alloy Processed By Severe Plastic Deformation.	Procedia Materials Science, Vol. 5, 1560-1566.	2014	1
61	Muralidhar Avvari, Narendranath.S, Shivananda Nayaka H	A review on wrought magnesium alloys processed by equal channel angular pressing.	International Journal of Materials and Product Technology (IJMPT). Vol.51, No.2, 139-164.	2014	1
62	S Narendranath, M Manjaiah, S Basavarajappa, VN Gaitonde	Experimental investigations on performance characteristics in wire electro discharge machining of Ti ₅₀ Ni _{42.4} Cu _{7.6} shape memory alloy.	Proceedings of the Institution Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture.	2013	1
63	Muralidhar Avvari, Narendranath. S, Shivananda Nayaka H	Improvement of mechanical properties of FCC & HCP structured materials processed by equal channel angular pressing.	International Journal of Scientific and Engineering Research (IJSER), Vol. 4, No. 4, 570-573.	2013	2
64	Muralidhar Avvari, Narendranath. S, Shivananda Nayaka H	Equal Channel Angular pressing processing of wrought AZ31 alloy.	International Journal of Advances in Engineering Sciences, Vol. 3, No. 4, 26-30.	2013	2
65	Muralidhar Avvari, Narendranath. S, Shivananda Nayaka H,	Effect of Equal Channel Angular Pressing on AZ31 Wrought Magnesium Alloys.	Journal of Magnesium and Alloys, Vol. 1, No. 4, 336-340.	2013	2
66	Madhusudhan, Narendranath S, G C Mohan Kumar	Properties of Centrifugal casting at different rotational speeds of the die.	International Journal of Emerging Technology and Advanced Engineering (ISSN 2250–2459, ISO 9001:2008 Certified Journal, Volume 3, Issue 1)	2013	2
67	Madhusudhan, Narendranaath S, Mohankumar G C,	Effect of Mould wall Temperature on rate of solidification of centrifugal casting.	International Journal of Mechanic Systems Engineering (IJMSE), June.	2012	2

68	Madhusudhan, Narendranath S , G C Mohankumar	Experimental Study on Cooling Rate of Centrifugal Casting Based on Grain Size.	International Journal of Scientific & Engineering Research, Volume 3, Issue 1.	2012	2
69	S. Basavarajappa, S. Manjunath Yadav, Santosh Kumar, K. V. Arun, and Narendranath S .	Abrasive Wear Behavior of Granite-Filled Glass-Epoxy Composites by SiC Particles Using Statistical Analysis.	Polymer-Plastics Technology and Engineering, 50: 1–9.	2011	1
70	Kiran Aithal, V. Desai, Narendranath S and P. G. Mukunda	Evolution Of Microstructure and Hardness of Al-Si Functionally Graded Material Cast Through Centrifuge Technique Using Hypereutectic and Eutectic Al-Si.	International Journal of Mechanical and Materials Engineering (IJMME), vol. 6, no. 2, pp. 275-279.	2011	2
71	Kiran Aithal, V. Desai, Narendranath S and P. G. Mukunda	Evolution Of Microstructure and Hardness of Al-Si Functionally Graded Material Cast Through Centrifuge Technique Using Hypereutectic and Eutectic Al-Si.	International Journal of Mechanical and Materials Engineering (IJMME), vol. 6, no. 2, pp. 275-279.	2011	2
72	Kiran Aithal, Narendranath S , V. Desai, and P. G. Mukunda	Effect of L / D Ratio on Al-Si Functionally Graded Material cast through Centrifuge Technique.	Advanced Materials Research, vol. 213, pp. 281-285.	2011	2
73	S. ManjunathYadav, K. V. Arun, S. Basavarajappa, Narendranath S , and Santosh Kumar	Collapse Mechanism of Foam Cored Sandwich Structures under Compressive Load.	Polymer Plastics Technology and Engineering, Vol. 50, no.13, pp. 1351-1356.	2011	1
74	Madhusudhan, Narendranath S , Mohankumar G C, Mukunda P G	Effect of Mould Wall Thickness on Rate of Solidification of Centrifugal Casting.	International Journal of Engineering Science and Technology, Vol. 2(10), 6090-6094.	2010	2

75	S. Narendranath , Vijay Desai, S. Basavarajappa, K. V. Arun, and M. Yadav S	Hot Rolling and Ageing Effect on the Pseudoelasticity Behaviour of Ti-Rich TiNi Shape Memory Alloy.	Journal of Minerals & Materials Characterization & Engineering, vol. 9, no. 4, pp. 343-351.	2010	2
76	S. Narendranath , S. Basavarajappa, K. V. Arun, and M. Yadav S	Effect of Applied Load on Dry Sliding Wear Property of Aged TiNiCu Alloy.	Journal of Minerals & Materials Characterization & Engineering, vol. 9, no. 9, pp. 811-817.	2010.	2
77	Madhusudhan, S. Narendranath , G.C.M. Kumar and P.G. Mukunda	Experimental Study on Rate of Solidification of Centrifugal Casting.	International Journal of Mechanical and Materials Engineering (IJMME), vol. 5, no. 1, pp. 101-105.	2010	2
78	KiranAithal, V. Desai, S. Narendranath , and P. G. Mukunda	Characterization of Al-Si Functionally graded Materials Using Centrifugal Casting Method.	International Review of Mechanical Engineering, Vol.3 No.5, pp.632-639.	2009	1
18.3 NATIONAL JOURNALS –02					
01	Kiran Aithal S., Vijay Desai, Narendranath S. and P. G. Mukunda	Microstructure, Hardness and Wear Characterization of Al-Si FGMs.	Indian Foundry Journal, p 39-48. Vol 58, No. 5.	2012	2
02	Sriram Mukunda, Narendranath S and P. G. Mukunda	Effect of copper content and Low temperature ageing on Nitinols.	Indian Foundry Journal, Vol. 57, P. No. 8.	2011	2
18.4 INTERNATIONAL CONFERENCES –46					
01	Gajanan M Naik, Gopal D Gote, Narendranath S ,	Influence of chloride content and exposer time on corrosion behavior of AZ80 wrought Mg alloy	First International Conference on Energy and Environment: Global Challenges (ICEE - 2018), NIT- Calicut,	2018	2
02	Abhinaba Roy, Narendranath S.	An empirical view on accuracy and machinability of TiNiCu shape memory alloys during	National Conference On Advanced Materials, Manufacturing And Metrology (NCAMMM-2018), CSIR-CMERI, Durgapur, West Bengal	2018	2

		wire electro discharge machining			
03	Gajanan M Naik, Gopal D Gote, Narendranath S,	Modeling of ECAP Process to Study the Effect of Die Parameters and Friction Coefficient on Equivalent Plastic Strain	International Conference on Contemporary Design and Analysis of Manufacturing and Industrial Engineering Systems, NIT-Trichy	2018	2
04	Sachin B Narendranath S, Chakradhar. D,	Optimization of Cryogenic Diamond Burnishing Process Parameters on 17-4 PH Stainless Steel using Taguchi Method	International Conference on Contemporary Design and Analysis of Manufacturing and Industrial Engineering Systems, NIT-Trichy	2018	2
05	Hargovind Soni, Narendranath S., Ramesh M. R.	Evaluation Of WEDM Performance Characteristics Of Ti ₅₀ Ni ₄₅ Co ₅ Shape Memory Alloys"	10 th International Conference on Precision, Meso, Micro and Nano Engineering (07-09 Dec 2017) at IIT Madras, Chennai.	2017	2
06	Abhinaba Roy, Narendranath S.	Study of wire electric discharge machining accuracy TiNiCu shape memory alloys through kerf analysis.	10 th International Conference on Precision, Meso, Micro and Nano Engineering (07-09 Dec 2017) at IIT Madras, Chennai.	2017	2
07	Madhusudana C. K., HemanthaKumar and Narendranath S.	Fault diagnosis of Face Milling tool Cutter using decision tree and sound signal.	International Conference on Materials, Manufacturing and Modelling (ICMMM) March-2017, VIT University, Vellore, India.	2017	2
08	Abhinaba Roy, Narendranath S., Dumitru Nedelcu	Experimental investigation on variation of output responses of as cast TiNiCu shape memory alloys using wire EDM.	International Journal of Modern Manufacturing Technologies, ISSN 2067–3604, Vol. IX, No. 1 / 2017 at International conference MODTech2017, Iasi, Romania.	2017	1
09	Gajanan M Naik, Narendranath S	Experimental Investigation of Wire ED Turning of INCONEL 718 super alloys.	ICDAMS- 2016, Saveetha University- Chennai, 07-08 April.	2016	2
10	Gajanan M Naik, Narendranath S	Optimization of Wire Electric Discharge Turning process parameters for INCONEL 718 super alloy by using ANOVA Technique.	ICONMERIT-16, Nehru Institute of Engineering and Technology Coimbatore, 30&31 March 2016.	2016	2

11	Gajanan M Naik, Narendranath S	Influence of process parameters on Material Removal Rate in wire electric discharge turning process of INCONEL 718.	ICRISEM-2016, Sri Venkateswara College of Engineering & Technology (SVCET) Srikakulam,27-Feb-2016,ISBN:978-81-932074-1-3.	2016	2
12	Hargovind Soni, Narendranath S. and Ramesh M. R.	Effect of machining parameters on wire electro discharge machining of shape memory alloys analyzed using Grey entropy method.	10 th International Conference On “Advances in Mechanical, Material Science, Manufacturing, Automobile, Aerospace Engineering and Applied Physics” (AMAEAP-2015) at J N U New Delhi India on 07 Nov. 2015.	2015	2
13	J. Dutta, Narendranath S.	Analytical and Experimental Predication of Convective-Radiative Thermal Cycle Developed in TIG Welding of Steel Butt Joints.	6 th International Conference on Theoretical Applied, Computational and Experimental Mechanics (ICTACEM 2014), 29 th -31 st December 2014, Indian Institute of Technology Kharagpur, West Bengal, India.	2014	2
14	J. Dutta, Narendranath S	Effect of Thermal Cycle on Mechanical Behavior of Medium Carbon Steel Butt Joints Formed by Arc Welding.	’Conference on Advances in Light Metals and Composites (CALM 2014), 6th -7th December, 2014, SRM University, Chennai, India.	2014	2
15	J. Dutta, Narendranath S.	Investigation of Arc Welding Variables Influenced by Temperature Cycle Developed in High Carbon Steel Welded Butt Joints and its Effect on Distortion.	International Conference on Industrial, Mechanical and Production; Advancement and current trends (ICIMPAT 2014) 27th - 29th November 2014, Moulana Azad National Institute of Technology Bhopal, Madhya Pradesh, India (ISSN: 978-93-84935-03-0).	2014	1
16	J. Dutta, Narendranath S.	Evolution of Temperature Field Developed in Arc Welded Steel Butt Joints and its Effect on Cooling Rate.	An Experimental and Mathematical Approach 5 th International & 26 th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2014) December 12th -14th 2014, IIT Guwahati, Assam, India.	2014	2
17	J. Dutta, Narendranath S.	Theoretical and Experimental Study of Evolution of Cooling	8 th International Conference on Science, Engineering and Technology (SET 2014), 6 th	2014	2

		Rate due to Transient Thermal Field Developed in Shielded Metal Arc Welding.	-7 th May 2014,Vellore Institute of Technology(VIT University), India.		
18	J. Dutta, Narendranath S.	Mathematical modeling of steady state temperature distribution due to heat loss from weld bead of a butt joint.	'International Conference on Industrial Engineering Science and applications (IESA 2014), 2 nd -4 th April, 2014, NIT Durgapur, India.	2014	2
19	Muralidhar Avvari, Narendranath S, Shivananda Nayaka H	Study the effect of microstructures and mechanical properties of wrought magnesium AZ31 alloy processed by equal channel angular pressing.	NRC-M Symposium and Discussion meeting on Severe Plastic Deformation and Bulk Nano-structured Materials. During 12th -14th May, 2014, Venue: Indian Institute of Science (IISc), Bangalore, INDIA.	2014	2
20	Muralidhar Avvari, Narendranath S., Shivananda Nayaka H	Understanding the Effect of Equal Channel Angular Pressing on Response of a Magnesium Alloy.	Conference on Advances in Light Metals and its Composites (CALM 2014). During 6th-7th December, Venue: SRM University, Chennai, INDIA.	2014	2
21	J. Dutta, Narendranath S.	Analytical and Experimental Study of Transient Temperature Cycle Developed in Shielded Metal Arc Welding.	International Conference on Innovation in Design, Manufacturing and Concurrent Engineering (IDMC 2014), 1 st -3 rd March, 2014, NIT Rourkela, India.	2014	2
22	Manjaiah M, Hagovinda Soni and Narendranath S	Multi Objective Optimization of Material Removal Rate and Surface Roughness in WEDM Using Genetic Algorithm.	CALM2014, December 7-9, 2014, SRM University Chennai and Indian Institute of Metal. Chennai.	2014	2
23	Shivaprasad C.G, KiranAithal, Narendranath S, Vijay Desai, P.G. Mukunda,	Influence of combined grain refinement and modification on microstructure and mechanical properties of Al-7Si, Al-7Si-4.5 Cu alloys.	International Mechanical Engg. Congress, NIT Trichy, May.	2014	2
24	M Manjaiah, S Narendranath, S Basavarajappa	Optimization of Material Removal Rate and Surface Roughness in WED-Machining	5th International and 26th All India Manufacturing Technology, Design and Research Conference AIMTDR-2014, December 12-14, 2014, IIT- Guwahati.	2014	2

		of TiNi SMA Using Grey Relation Analysis.			
25	Manjaiah M, Narendranath S and Javad Akbari	Optimization of Wire Electro Discharge Machining Parameters to Achieve Better MRR and Surface finish.	International Conference on Advances in Manufacturing And Materials Engineering – ICAMME-2014, March 27-29th , 2014, NITK Surathkal.	2014	1
26	C.G.Shivaprasad, S.Narendranath , Vijay Desai, Sujeeth Swami, M.S. Ganesh Prasad	Influence of Combined Grain Refinement and Modification on the Microstructure and Mechanical Properties of Al-12Si, Al-12Si-4.5Cu Alloys.	International Conference on Advances in Manufacturing And Materials Engineering – ICAMME-2014, March 27-29th , 2014, NITK Surathkal.	2014	1
27	N. Gangadhar, Hemantha Kumar, and S. Narendranath	Fault Diagnosis of Single Point Cutting Tool through Vibration Signal using Decision Tree Algorithm.	International Conference on Advances in Manufacturing And Materials Engineering – ICAMME-2014, March 27-29th , 2014, NITK Surathkal.	2014	1
28	Avvari, Muralidhar; Narendranath, S.; Nayaka, Shivananda H.	Effect of Processing Routes on AZ31 Alloy Processed By Severe Plastic Deformation.	International Conference on Advances in Manufacturing And Materials Engineering – ICAMME-2014, March 27-29th , 2014, NITK Surathkal.	2014	1
29	Manjaiah M, Sibin B, Narendranath S , Basavarajappa S	Wire Electro Discharge Machining of TiNi Shape Memory Alloy” International Conference on Emerging Materials and Processes – 2014.	CSIR-Institute of Minerals and Materials Technology, Bhubaneswar. ICEMP-2014, February 26-28th, 2014, CSIR Bhubaneshwar.	2014	2
30	Manjaiah M, Sibin B, Narendranath S and Basavarajappas S	Study on Surface Properties of Ti ₅₀ Ni ₄₅ Cu ₅ SMA After WEDM Process.	International Conference on Recent Trends in Engineering and Technology, 18th - 19th, January 2014, Kerala.	2014	2
31	M. Manjaiah, Vasu M, S. Narendranath , Ajith G. Joshi	Study on Machinability of Ti ₅₀ Ni ₄₆ Cu ₄ Ternary SMA using Wire EDM.	3rd International Engineering Symposium (IES 2013), March 4th -6th , 2013, Japan.	2013	2
32	Muralidhar Avvari, Narendranath S. , Shivananda Nayaka H,	Improvement of Mechanical Properties of Aluminum	Fourth International Conference on Recent Advanced in Composite Materials	2013	2

		processed by severe plastic deformation (SPD) technique.	(ICRACM). During 18th -21st February, 2013, Goa, INDIA.		
33	Muralidhar Avvari, Narendranath S. , Shivananda Nayaka H,	Effect of equal channel angular pressing on microstructure and mechanical properties of Mg-3Al-1Zn alloy.	International Conference on Engineering Materials and Processes (ICEMAP). During 23rd -24th May, 2013, Chennai, INDIA.	2013	2
34	Muralidhar Avvari, Narendranath. S. , Shivananda Nayaka H	Study on grain refinement and mechanical properties of Mg-3%Al-1%Zn processed by equal channel angular pressing.	Minamata International Symposium on Environment and Energy Technology 2013 (MISSION-2013) During 4th -6th December, 2013, Venue: Kumamoto University, JAPAN.	2013	2
35	Shivaprasad C.G, Narendranath S. , VijayDesai, SujeethSwami, M.S GaneshPrasad	Influence of combined grain refinement and modification on the microstructure and mechanical properties of Al-12Si, Al-12Si-4.5Cu alloys.	Procedia Martials Science Elsevier Publications AMME 2014, NITK, Surathkal. Feb, 2013.	2013	2
36	SriramMukunda, DelliBabu, Narendranath. S SriramMukunda, DelliBabu, Narendranath. S. Mervin A. Herbert	Effect Of Heat Treatment And Alloying On Properties Of NiTiCu.	3rd International Conference On Recent Advances in Material Processing Technology (RAMPT'13)Kovilapatti, TamilnaduJan 7-9th 2013.	2013	2
37	M Manjaiah, S Narendranath, S Basavarajappa	Experimental investigations on Wire-Electrical Discharge Machining of Ti ₅₀ Ni ₄₇ Cu ₃ SMA.	Fourth international conference on recent advances in composite materials (ICRACM-2013), Feb 18th -21st, 2013, Goa.	2013	2
38	Kiran Aithal S, Vijay Desai, Narendranath S and P G Mukunda	Microstructure, Hardness Characterization of Al-Si FG Alloy and Al-Si- SiCp FGMMC	3rd Asian Conference on Mechanics of Functional Materials and Structures, December 5-8, 2012.	2012	2
39	Sriram Mukunda, Narendranath S	Effect of Copper Content on Wear Properties of Nitinol.	International conference on advanced materials (ICAM-2011) 19-20th Aug 2011, Bangalore, India.	2011	2

40	Madhusudhan, Narendranath S , Mohankumar G. C., Mukunda P. G	Experimental study on effect of mold wall thickness on rate of solidification of centrifugal casting.	International conference on Frontiers in Mechanical Engineering (FIME 2010), 20-22nd May, 2010.	2010	2
41	KiranAithal, S. Narendranath , Vijay Desai and P G Mukunda	Characterization of Al-Si Functionally Graded Material cast through centrifuge technique.	International Conference on Frontiers in Mechanical Engineering (FIME 2010), 20-22nd May, 2010.	2010	2
42	S. Narendranath , S.M Kulkurni, Vijay Desai, Sudipto Gosh	A study of the ageing effect on the wear behavior of Ti ₅₂ Ni ₄₈ shape memory alloy.	Global conference on Production and Industrial Engineering.	2007	2
43	S. Narendranath , G. Das, S. Gosh and M. Chakraborty	Ageing Effect on the Pseudoelasticity Characteristics of Ti-Rich TiNi Shape Memory Alloy.	Ninth Annual Conference of the Yugoslav Materials Research Society (YUCOMAT-2007), Herceg-Novti, Sep 10-14th, 2007.	2007	2
44	S. Narendranath , K V Rao, Sudipto Gosh and M. Chakraborty	Study of the Phase Transformation Behavior of Thermomechanical Treated Ti-50.5 at. % Ni Shape Memory Alloy.	Advances in materials and materials processing (ICAMMP-2006) 3-5th Feb 2006.	2006	2
18.5 NATIONAL CONFERENCES –16					
1	N. Gangadhar, Hemantha Kumar, S. Narendranath	Effect of cutting speed and feed rate on temperature and cutting force in machining of Hardened steel AISI H13 using computational approach.	CALM-2014, held at SRM Research Institute, SRM University, Chennai, December 6-7.	2014	2
2	Dutta Jaideep, Narendranath S	'Thermochemical Analysis of Arc Welding Carbon Steel Butt Joints: A parametric Study.	National Conference on Industrial Engineering and Technology Management (NCIETM 2014), 29 th -31 st October 2014, National Institute of Industrial Engineering, Mumbai, India.	2014	2

3	M S Srikanth, Narendranath S., Ravindra I B, Dheeraj Gupta, A K Sharma	Material joining using microwaves: An innovative approach.	Proceedings of the International Conference on Current Trends in Engineering and Management, 2012.	2012	2
4	Kiran Aithal, S. Narendranath, Vijay Desai and P G Mukunda,	Microstructure and Wear Characterization of Hypereutectic Al-Si FGM.	139th Annual Meeting & Exhibition TMS 2010.	2010	2
5	Kiran Aithal S, Narendranath S, Vijay Desai and P G Mukunda	Evaluation of microstructure and hardness of Al-17wt% Si- 7wt%SiC functionally graded composite.	Advanced Materials, SIT, Tumkur, AMMMT-2010.	2010	2
6	Mukunda P G, Shailesh Rao A, Madhusudhan, Shrikantha S Rao, Narendranath S G. C. Mohan Kumar	Study of fluid behavior in Centrifugal Casting.	National conference on recent Trends in Manufacturing Technology (RTMT-09), 6&7 March, CEGC, Anna University Chennai.	2009	2
7	Mukunda P. G, Shailesh Rao A, Madhusudhan, Narendranath S, Mohankumar G C	Understanding of Fluid Behavior in Partially Filled Rotating Cylinder”, New Advances in Thermal, Design, Materials and Manufacturing Engineering.	NATDMME-2009.	2009	2
8	Kiran Aithal, S. Narendranath, Vijay Desai and P G Mukunda	Wear Characterization of Al/17wt% Si Functionally Graded material.	Tribo-India Conference, 11-12 th December 2009.	2009	2
9	Ashok B Belli, Narendranath S	Internal oxidation of carburized steel during heat treatment.	Proceedings of National conference on recent advancements in mechanical engineering”, 2008.	2008	2
10	Kiran Aithal, S. Narendranath, Vijay Desai and P G Mukunda	Fabrication and Characterization of Al/17wt. % Si Functionally Graded Material Using Centrifuge Casting Method.	National Conference on Evolving Trends in Mechanical Engg. March 2009, Organized by – Oxford College of Engg., Bangalore.	2009	2

11	Kiran Aithal, S. Narendranath, Vijay Desai and P G Mukunda	Fabrication and Characterization of Al/17wt% Si Functionally Graded Composite Materials Using Centrifugal Casting Method.	Proceedings of the National conference on Evolving trends in mechanical engineering 13-14 th March 2009.	2009	2
12	Rajneesh Kumar, Narendranath S, Suresh Hebbar	Effect of load on Dry sliding wear property of aged TiNiCu Shape memory alloy.	NITK Research Bulletin, Vol.16, No.1, June 2007.	2007	2
13	S. Narendranath, Sudipto Gosh and M. Chakraborty	Ageing temperature effect on the martensitic phase transformation temperatures of equiatomic TiNi SMA.	National conference on development of advanced composite components in aerospace, automobile applications. Feb-2007.	2007	2
14	S. Narendranath, K V Rao, Sudipto Gosh and M. Chakraborty	Wear behavior of thermo-mechanically treated Ti50Ni50 Shape memory alloy	Proceedings of National conference on composite component construction, 2005.	2005	2
15	S. Narendranath, Sudipto Gosh and M. Chakraborty	Effect of Hot rolling on the transformation temperatures of Ti-Rich Ti52-Ni48 SMAs.	Poster: Advanced characterization techniques on Nanomaterials (ACTON-2005) Aug 24-26 th , 2005.	2005	2
16	S. Narendranath, K V Rao, Sudipto Gosh and M. Chakraborty	Ageing effect on the phase transformation temperatures of TiNi Shape memory alloy.	43rd National metallurgist day NMD-ATM-2005.	2005	2

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18.5 COPYRIGHTS/PATENTS

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INTERNATIONAL JOURNALS	NATIONAL JOURNALS	INTERNATIONAL CONFERENCES	NATIONAL CONFERENCES	BOOK CHAPTERS
78	02	46	16	05

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Signature
Prof. Narendranath S.