

## BIO-DATA

1. **Name** : **Dr. H. V. Ravindra**
2. **Designation/Department** : **Professor & Principal**  
**Department of Mechanical Engineering**
3. **Institution/University** : **P. E. S. College of Engineering, Mandya- 01**  
**Visvesvaraya Technological University, Belgaum**
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5. **Educational Qualifications** : **B.E., M.Tech., Ph.D.**

Graduation & above	Subject	Class	Year	University
Ph.D.	Condition Monitoring	---	1990-93	IIT, Madras
M.Tech	Production Engineering	First class with distinction	1987	IIT, Madras
B.E.	Mechanical	First class with distinction	1983	University of Mysore

### 6. Subjects taught:

Sl. No.	U.G
1.	Mechatronics
2.	Engineering Metrology and Instrumentation
3.	CAD/CAM
4.	Manufacturing Processes – I, II, III
5.	Hydraulics and Pneumatics

Sl.No.	P.G. (CIM)
1.	Diagnostic Maintenance and Condition Monitoring
2.	Non Traditional Machining
3.	Computer Control of Manufacturing Systems
4.	Tooling for Manufacturing and Automation
5.	Sensors Application in Automation

7. **Date of Birth** : 

Month	Date	Year
04	13	1961

8. **Teaching Experience** : **36 Years**  
**Research Experience** : **32 Years**

**9. Positions held :**

DESIGNATION	INSTITUTION	DURATION	PERIOD	EXPERIENCE
Professor <b>Prof &amp; Head Principal</b>	P.E.S.C.E Mandya	15 years	<b>2004- Till date</b> 2008- 2012 <b>2018-Till Date</b>	Teaching/ Research
Professor CAS	P.E.S.C.E Mandya	3 years	2001- 2004	Teaching/ Research
Asst Prof Selection Grade Lecturer	P.E.S.C.E Mandya	7 Years	1994 - 2001	Teaching/ Research
Senior Lecturer	P.E.S.C.E Mandya	4 Years	1990 - 1994	Teaching
Lecturer	P.E.S.C.E Mandya	6 Years	1984 - 1990	Teaching

**10. A) Research Publications : Please Refer ANNEXURE - I**

INTERNATIONAL JOURNALS	NATIONAL JOURNALS	INTERNATIONAL CONFERENCES	NATIONAL CONFERENCES
60	01	135	34

**11. Ph.D's Guided: 12 (awarded)**

Sl. No.	Name	Year of Registration	Title of Thesis	Year	University
1	Naveen Prakash.G.V	2004	Condition Monitoring Studies on Spindle Bearing of a Drilling Machine Tool Using FEM, Multiple Regression & GMDH	2011	VTU
2	Sathish Kumar. K.M	2005	Monitoring the Machine Elements in a Lathe by Multi-sensory Approach Using FEM, Multiple Regression & GMDH	2011	VTU
3	Nixon Kuruvila	2006	Optimization and Influence of Process Parameters for Machining Various Materials in WEDM.	2011	VTU
4	Sudev L. J.	2006	Tool Condition Monitoring in Drilling Using Thrust, Torque, Tool Tip Temperature and AE Signal	2012	VTU
5	Umesh Gowda B .M.	2007	Monitoring the Status of the Drilled Hole in Composite Material using Multi Sensory Approach	2018	VTU
6	Prakash .U (Co-Guide)	2006	Machinability Studies and Tribological Characterisation of Aluminium based Metal Matrix Composites	2018	VTU
7	Ugrasen G	2010	Estimation and Comparison of Machining Performances in Wire Electric Discharge Machining Using MRA, GMDH and ANN	2018	VTU

8	C.K. Vikram (Co-Guide)	2011	Experimental Investigation and Numerical Simulation of Flow Past Cylinders.	2018	VTU
9	Y.D. Chethan	2012	Parametric Optimization and Performance Monitoring in Turning Nickel base super alloys using Machine Vision and Acoustic Emission Techniques	2018	VTU
10	Rudresh Adamani	2013	Optimization of Process Parameters and Monitoring the Status and Breakage of Weld Using Multisensory Approaches for Pulsed Gas Metal Arc Welding (P-GMAW)	2019	VTU
11	Prathik Jain	2013	Monitoring the Machining Performance of Various types of Work Material in WEDM Using Multi Sensory Approach	2020	VTU
12	Gurupavan H R	2014	Comparative Study of Machining Performances in WEDM of Composite Materials Using Machine Vision System	2019	VTU

**12. Thesis guided:**

UNDER GRADUATE	POST GRADUATE	M.Sc., (RESEARCH)	Ph.D. (research)
50	85	01	12 awarded

**13. Membership & Fellowship of Professional Bodies:**

- i) Life member of Indian Society of Technical Education [ISTE]
- ii) Fellow of Institution of Engineers (I) [FIE]
- iii) Fellow of Indian Institute of Production Engineers [IIPE]

**14. Membership in Various National Boards:**

- i) Member for National Board of Accreditation AICTE, New-Delhi.
- ii) Member Expert Committee for starting of New PG Courses AICTE, New Delhi.
- iii) Governing Body Member, Institute of Shipbuilding Technology, GOA.

**15. Membership in Academic Bodies:**

- i) Member of Post Graduation Board (Examination), V.T.U, Belgaum
- ii) Member of Board of Studies, UOM, Mysore.
- iii) Member of Under Graduation Board (examination), V.T.U, Belgaum
- iv) Member of post graduation Board (Examination), various Universities
- v) Member of Board of Studies (UG & PG), Kuvempu University
- vi) Member, Board of Studies (Mech), VTU, Belgaum

**16. Administrative Position Held:**

- Principal
- Coordinator, TEQIP
- Head of the Department
- Chairman, Board of studies & Examination ( UG & PG)
- Founder Secretary, ISTE Chapter
- Co-ordinator, PG in Computer Integrated Manufacturing (CIM),
- Secretary , Industry – Institute Partnership Cell (IIPC),
- Administrative Officer, P.E.T. Sports Complex
- Treasurer, Mandya District Badminton Association
- Vice President of Alumni Association, P.E.S.C.E, Mandya

**17. Labs Set Up:**

- CAD/CAM Lab
- FMS Lab
- Condition Monitoring Lab
- Non-Traditional Machining Lab

**18. Visits:****a) Countries Visited:**

**USA, UK, GERMANY, SWITZERLAND, SRILANKA, MALAYSIA, SINGAPORE,  
THAILAND, HONGKONG,**

**b) Academic Meetings / Conference Presenting Paper/Presiding:**

Sl. No.	NAME OF THE CONFERENCE	ORGANISED BY	DURATION
1	Symposium on Advances in Mathematics	Indian Institute of Technology, Madras	20 <sup>th</sup> December, 1991
2	NAWACE-92	Defence Research & Development Laboratory (DRDL), Hyderabad,	17- 18, Sept., 1992
3	15 <sup>th</sup> All India Manufacturing Technology, Design & Research (AIMTDR) Conference	PSG. College of Tech., Coimbatore	3-5, December, 1992
4	First Asia-Pacific Conference on Material processing	<b>National University of Singapore</b>	24-26 February, 1993
5	National Seminar on Frontiers of Tribology and Condition Monitoring	IIT, Madras	19 <sup>th</sup> June, 1993
6	16 <sup>th</sup> AIMTDR Conference	Central Manufacturing Institute (CMTI), Bangalore	8-10, December, 1994

7	First International Conference on Agile Manufacturing	Hotel Ashoka, Bangalore	22 - 24 February 1996
8	17 <sup>th</sup> AIMTDR Conference	Regional Engineering College, Warangal	9 - 11 January 1997
9	COPEN 2000, 1 <sup>ST</sup> National conference on Precision Engineering	Indian Institute of Technology Madras, Chennai	12-13 January 2000
10	19 <sup>th</sup> AIMTDR Conference	Indian Institute of Technology Madras, Chennai	14-16 December 2000
11	National Conference on Recent Developments in Mechanical Engineering	Thapar Inst. of Engg. and Technology, Patiala, Punjab	31 <sup>st</sup> Oct. – 01 <sup>st</sup> Nov. 2003
12	11 <sup>th</sup> National Conference on Machines and Mechanisms	IIT Delhi	18-19, Dec. 2003
13	3 <sup>rd</sup> National Conference on Precision Engineering	Central Manufacturing Technology Institute, Bangalore	19-20 December 2003
14	National Conference on Development & Challenges in Manufacturing Engineering	MIT, Manipal	18-20 March 2004
15	National Conference on Advances in Materials and Manufacturing Technology	IITM, Chennai	2 April 2004
16	21 <sup>st</sup> AIMTDR Conference	VIT, Vellore	2005
17	International Conference on Emerging Technologies in Intelligent System and Control	KCT, Coimbatore, TN	5 – 7 January 2005
18	International Conference on Recent Advances in Material Processing Technology	NEC, Kovilpatti, TN	23 – 25 Feb 2005
19	National Conference on Recent Advances in Manufacturing Technologies	National Institute of Technology, Rourkela	22-23 Oct 2005
20	National Conference on Recent Advances in Mechanical Engineering	P.A. College of Engg., Mangalore	1-3 Dec. 2005
21	International Conference on Advances in Mechanical Engineering	Delhi Engineering College, Delhi	22-23 Dec, 2005
22	International Conference on Cognition and Recognition	PESCE, Mandya	23-24 Dec 2005
23	International Conference on Intelligent Systems and Control	Karpagam College of Engineering, Coimbatore	9-11 Aug. 2006
24	National Conference on Recent trends in Mechanical Engineering	Sri Jayachamarajendra College of Engineering, Mysore	17 – 18 Nov, 2006

25	International Conference & 22 <sup>nd</sup> AIMTDR Conference	IIT Roorkee	21-23 Dec, 2006
26	National Conference on RADE 2007	Manipal Institute of Technology, Mainpal	22 - 24 February 2007
27	International Conference on Production and Industrial Engineering	Dr.B.R Ambedkar National Institute of Technology, Jalandhar	22 - 24 March 2007
28	International Conference on Modeling and Simulation	Coimbatore Institute of Technology, Coimbatore	27-29 August 2007
29	9 <sup>th</sup> International Symposium on Measurement and Quality Control	IIT Madras, Chennai	21-24 Nov. 2007
30	International Conference on Cognition and Recognition, from	P. E. S. College of Engineering, Mandya	10-12 April 2008
31	International Mechanical Engineering Congress and Exposition (IMECE)	<b>ASME, Boston Massachusetts, United States</b>	Oct 31 – Nov 6, 2008.
32	2 <sup>nd</sup> International and 23 <sup>rd</sup> AIMTDR Conference,	IIT Madras, Chennai	15 – 17 December 2008
33	National Conference on Recent Developments in Mechanical Engineering (RDME-2009)	Thiruvananthapuram, Kerala	5-6 March 2009
34	2 <sup>nd</sup> International Conference on Logistics and Supply Chain Management (ILSCM 2008)	PSG Institute of Technology, Coimbatore	7 - 9 August 2008
35	International Conference on Frontiers in Mechanical Engineering (FIME 2010)	NITK, Surathkal	20 – 22 May 2010
36	International Conference on Recent Advances in Intelligent Computational Systems (RAICS - 2011)	Trivandrum,	Sep 22-24,2011.
37	“International Conference on Advanced Materials and Processing - ICAMP – 2011”	RMK Engg. College, kavaraipettai, Chennai,	Dec 19-20, 2011
38	ASME International Mechanical Engineering Congress and Exposition	<b>Denver, Colorado,USA</b>	Nov11-17, 2011
39	A study of flow characteristics on two different sized square cylinders	Dr.MGR Educational & Research Institute University, Chennai	April 19-20,2012
40	International Conference on 'Recent Advances in Mechanical Engineering-ICCMOM-2012	Dr.MSRIT, Bangalore	July 11-13, 2012
41	ASME International Mechanical Engineering Congress and Exposition	<b>Houston, Texas, USA</b>	Nov 09-15,2012
42	4 <sup>th</sup> International & 25 <sup>th</sup> AIMTDR Conference -2012	Jadavpur University, Kolkata	Dec 14-16, 2012

43	International Conference on SMTE-2013	Delhi Technological university, Delhi	Dec 25-26,2013
44	International Conference on ICAMME 2014	NIT K, Surthkal	Mar 27-29, 2014
45	26 <sup>th</sup> AIMTDR Conference -2014	IIT-Guwahati	Dec 12-14, 2014
46	ASME International Mechanical Engineering Congress and Exposition	<b>Houston, Texas, USA</b>	Nov13-19,2015
47	COPEN-9	IIT Bomaby, Mumbai	Dec. 9-13, 2015
48	27 <sup>th</sup> AIMTDR Conference -2016	COEP, Pune	Dec. 16-18, 2016
49	ASME International Mechanical Engineering Congress and Exposition	<b>David L. Lawrence Convention Center, Pittsburgh, PA</b>	Nov. 09-15, 2018
50	28 <sup>th</sup> AIMTDR Conference -2018	Anna University, Chennai	Dec. 13-15, 2018
51	ASME International Mechanical Engineering Congress & Exposition	<b>Calvin L. Rampton Salt Palace Convention Center, Salt Lake City, Utah, USA</b>	November 08-14, 2019

**c) Short-term Courses, CED Participated:**

SL. NO.	NAME OF THE COURSE	ORGANISED BY	DURATION
1	Design of Solar Energy Systems and Equipment	PSG College of Technology, Coimbatore	2-15, June, 1985
2	Computer Aided Design & Computer Aided Manufacture	Indian Institute of Science, Bangalore	Oct. 21– Nov. 4, 1985
3	Materials Handling for Modern Manufacturing Systems	IIT Madras, Chennai	3 – 14, June, 1991
4	Futures Technology and Policy Formulation	Dept. of Mechanical Engg., P.E.S.C.E., Mandya	10-22, August, 1992
5	Industry Institute Partnership	P.E.S. College of Engg., Mandya	6-8, August, 1994
6	Training of Trainers for Induction of Technical Teachers	Technical Teachers Training Institute, Madras	7-11, November, 1994
7	Measurement, Analysis and Control of Vibration and Noise	Sri Jayachamaraja College of Engineering, Mysore	18-30, September, 1995
8	Induction Training of Technical Teachers	I.S.T.E – P.E.S.C.E. Chapter, P.E.S. College of Engg., Mandya	29 – 31, Jan., 1996
9	Advances in Surface Treatment Techniques	Malnad College of Engg., Hassan	11-23, March, 1996
10	Advanced Manufacturing Technology	IIT Madras, Chennai	3-15, June, 1996
11	Mechatronics	B.M.S. College of Engg, Bangalore	19 – 22, December, 2002

12	Bio Mass	Hotel Ashoka, Bangalore	5-7 May, 2004
13	Industrial Hydraulics and Pneumatics	NIE, Mysore	1 Oct. 2004
14	Industrial Hydraulics and Pneumatics	MICO Vocational Centre, Bangalore	29-31 Aug. 2005
14	Training The Trainers(TTT) programme on Hydraulics and Pneumatics	<b>Lohr, Germany</b>	18 – 22 June 2007
15	TTT programme on Sensoric	VTU-BRCOC	10-11 Mar. 2008

**d) Workshop participated:**

SL. NO.	NAME OF THE COURSE	ORGANISED BY	DURATION
1	Mathematical Modelling in Tool Condition Monitoring	Dept. of Mathematics, I.I.T., Madras	20 December, 1991
2	Recent trend in manufacturing	Science and Technology Entrepreneurship Programme, SJCE, Mysore	23-28 August, 1992
4	Acoustic Emission for Condition Monitoring in Manufacturing	IIT, Madras	19 June, 1993
5	Tool Condition Monitoring in Machining	KREC, Surathkal	3 - 6 Oct., 1996
6	Industrial Hydraulics and Pneumatics	MICO Vocational Centre, Bangalore	29-31 Aug. 2005
7	Training The Trainers(TTT) programme on Hydraulics and Pneumatics	Lohr, Germany	18 – 22 June 2007
8	TTT programme on Sensoric	VTU-BRCOC	10-11 Mar. 2008

**e) Invited Speaker:**

Sl. No.	NAME OF THE COURSE	ORGANISED BY	DURATION
1	Science and Entrepreneurship Programme	Sri Jayachamaraja College of Engineering, Mysore	23-28 Aug. 1992
2	Seminar	University Teknologi, Johor Bahru, Malaysia	27 <sup>th</sup> Feb. 1993
3	Seminar	Anna University, Madras	15 <sup>th</sup> March, 1993
4	Measurement, Analysis and Control of Vibration & Noise	Sri. Jayachamaraja College of Engineering, Mysore	18 -30 Sept. 1995
5	Advanced Manufacturing Technologies	Karnataka Regional College of Engineering, Surathkal	3 – 6 Oct. 1997
6	Quality Assured Manufacturing	I.I.T Madras, Chennai	20 – 24 Dec. 1999
7	Tool Engineering & Design	Malnad College of Engineering ,Hassan	13-26 March 2000
8	Maintenance of Machinery	Sri. Jayachamaraja College of Engineering, Mysore	18-31 March 2000

9	Monitoring of machine elements in Machine tools	Ghousia College of Engineering, Ramanagar	Sept. 2005
10	Condition based maintenance	Automotive Axles Ltd., Mysore	March, 2006
11	Principles of Acoustic Emission	Malnad College of Engineering, Hassan	Oct. 2006
12	Acoustic Emission – Case studies	Automotive Axles Ltd., Mysore	March, 2007
13	Research Methodology	Vidyavardhaka College of Engineering, Mysore	April, 2007
14	Optimization of process parameters of WEDM based on Taguchi`s technique	Bapuji Institute of Engineering & Technology, Davangere	May, 2007
15	Acoustic Emission Monitoring	Sree Chitra Thirunal College of Engineering, Thiruvananthapuram, Kerala,	5-6 March 2009
16	Monitoring of Machine Elements	NITK, Surathkal	June 2009
17	Acoustic Emission Monitoring	NITK, Surathkal	May 2010
18	Role of Computers in Mechanical Engg	SJBIT, Bangalore	July, 2011
19	Computer Integrated Manufacturing (CIM)	Sir MVIT, Yelahanka, Bangalore	March 2012
20	Emerging Trends in Mechanical Engineering (WEDM)	RRCE, Bangalore	Feb 2012
21	Acoustic Emission and its applications	PESCE, Mandya	30 <sup>th</sup> July – 03 <sup>rd</sup> August, 2015
22	Acoustic Emission and its applications	DSCE, Bangalore	July 2018
23	Research Methodology	MRIT, Mysore	Jan 2019
24	Performance Monitoring of Machining PMC and MMC materials	SJCIT, Chikkabalapur	Jul 2019

#### 19. Research Projects Handled:

SL. NO.	PROJECTS	AGENCY	YEAR	AMOUNT
1	Development of CAD/CAM laboratory	AICTE	1995-97	Rs.4,00,000-00
2	Development of FMS laboratory	AICTE	1997-99	Rs.6,00,000-00
3	Tool Condition Monitoring during Machining	DST	1997-99	Rs.7,17,000-00
4	Condition Based Maintenance in Sugar Industries	UGC	2000-2001	Rs.3,64,000-00
5	Industry Institute Partnership Cell	AICTE	2002-2004	Rs.8,00,000-00
6	Condition Monitoring of the Machine tools	UGC	2002-2005	Rs.6,60,000-00
7	Improvement of Post Graduate teaching facilities	DST	2005-07	Rs.20,00,000-00

8	Industry Institute Partnership Cell	AICTE	2006-07	Rs.1,00,000-00
9	Image Processing Technique for Automated Inspection and Flow Visualization	UGC	2007-09	Rs.6,96,600-00
10	Image Processing Technique for Automated Inspection and Flow Visualization	UGC	2009-10	Rs.1,57,000-00
11	Optimisation of process parameters and monitoring the electrode in WEDM	AICTE	2010-12	Rs.7,00,000-00
12	Machine tool condition monitoring using Machine vision	VTU	2012-15	Rs.6,35,000=00
13	Monitoring of Electrode in wire Electrical discharge machining using Multi-sensory approaches	UGC	2013-15	Rs.6,30,000=00
14	Monitoring the status of the drilled hole in composite material using multi sensory approaches	DRDO, Pune	2014-16	Rs,10,00,000=00
15	Performance Monitoring of Composite Materials while Machining and Welding using Machine Vision System.	AICTE	2019-20	Rs, 15,96,078=00
16	Performance Monitoring of Composite Materials while Machining and Welding using Machine Vision System.	DST	Proposal Submitted	Rs, 53,85,000=00

## 20. Programmes organized as Coordinator:

SL. NO.	CONTINUING EDUCATION PROGRAMME	DURATION	BENEFICIARIES	FUNDS GENERATED	
				AGENCY	AMOUNT
1	Condition Monitoring in Manufacturing Process	14 <sup>th</sup> – 26 <sup>th</sup> July, 1997	Faculty	I.S.T.E/ A.I.C.T.E	Rs. 84,000.00
2	Sensors in Condition Based Maintenance	03 <sup>rd</sup> -15 <sup>th</sup> July, 2000	Faculty	I.S.T.E/ A.I.C.T.E	Rs. 84,000.00
3	Advanced Manufacturing Technique	09 <sup>th</sup> -21 <sup>st</sup> Feb, 2004	Faculty	A.I.C.T.E	Rs. 1,95000.00
4	Biomass Power – Current Scenario and Future Projection	15 <sup>th</sup> -27 <sup>th</sup> March 2004	Faculty	I.S.T.E/ A.I.C.T.E	Rs. 1,30000.00
5	Entrepreneurship Awareness Programme	22 <sup>nd</sup> – 23 <sup>rd</sup> , Nov., 2002	Final Year Students	A.I.C.T.E	IIPC Fund
6	Entrepreneurship Awareness Programme	23 <sup>rd</sup> – 25 <sup>th</sup> June 2003	Final Year Students	A.I.C.T.E	IIPC Fund
7	Entrepreneurship Awareness Programme	29 <sup>th</sup> – 30 <sup>th</sup> Sep. 2003	Final Year Students	A.I.C.T.E	IIPC Fund
8	Personality Development Programme	05 <sup>th</sup> -06 <sup>th</sup> Oct, 2004	Final Year Students	A.I.C.T.E	IIPC Fund

9	Entrepreneurship Awareness Programme	03 <sup>rd</sup> – 04 <sup>th</sup> Dec 2004	Final Year Students	A.I.C.T.E	IIPC Fund
10	Carrier Opportunities after Graduation	07 <sup>th</sup> – 08 <sup>th</sup> April 2005	Final Year Students	A.I.C.T.E	IIPC Fund
11	Basic Hydraulics	07 <sup>th</sup> – 09 <sup>th</sup> Sept, 2007	Final Year Students	A.I.C.T.E	IIPC Fund
12	Basic Hydraulics	05 <sup>th</sup> – 07 <sup>th</sup> Oct, 2007	Final Year Students	A.I.C.T.E	IIPC Fund
13	Basic Hydraulics	01 <sup>st</sup> – 03 <sup>rd</sup> Nov 2007	Final Year UG/PG Students	A.I.C.T.E	IIPC Fund
14	Basic Hydraulics	24 <sup>th</sup> – 26 <sup>th</sup> April 2008	Final Year Automobile Engg. & PG	A.I.C.T.E	IIPC Fund
15	Mecholites – 09, Paper presentation Contest	21 <sup>st</sup> March 2009	Mech./I&P/Auto Students	Institution	-----
16	Mecholites – 10, National level technical Contest	22 <sup>nd</sup> -23 <sup>rd</sup> May 2010	Mechanical Engg. Sciences	Institution	-----
17	Mecholites-11, State level technical contest	7 <sup>th</sup> -9 <sup>th</sup> April, 2011	Mech./I&P/Auto Students	Institution	-----
18	Mecholites-12, State level technical contest	19 <sup>th</sup> -20 <sup>th</sup> April, 2012	Mech./I&P/Auto Students	Institution	-----

**INTERNATIONAL JOURNALS:**

1. H. V. Ravindra, Y. G. Srinivasa and R. Krishnamurthy, 'Tool wear monitoring in turning using Pattern recognition technique', Journal of Materials Processing Technology, 1993, Vol. 37, No.1-4, pp. 731-740.
2. H. V. Ravindra, Y. G. Srinivasa and R. Krishnamurthy, "Modeling of tool wear based on cutting force in turning", **WEAR**, Vol. 169, 1993, pp. 25-32.
3. H. V. Ravindra, M. Raghunandan, Y. G. Srinivasa and R. Krishnamurthy, "Tool wear estimation by Group method data handling in turning", Int. Jl. of Production Research, Vol. 32, No.6, 1993, pp. 1295-1313.
4. H. V. Ravindra, S. Ashok Kumar and Y. G. Srinivasa, "Investigation on in-process tool wear monitoring through time series modelling and pattern recognition", Int. Journal of Production Research, 1997, Vol. 35, No. 3, pp. 739 - 751.
5. H. V. Ravindra, Y. G. Srinivasa and R. Krishnamurthy, "Acoustic emission for tool condition monitoring in metal cutting", **WEAR**, Vol. 212, 1997, pp. 78-84.
6. H. V. Ravindra and K. M. Sathish Kumar, "Monitoring the Machine Elements of a Lathe by a Multisensory Approach using Finite Element Analysis", International Journal of Vibration & Control, JVC - 115, 2009.
7. H. V. Ravindra and Nixon Kuruvila, "Parametric Influence and Optimization of Wire EDM on Hot Die Steel using Taguchi Technique & Genetic Algorithm", International Journal of Machining Science & Technology, Vol. 15, No. 1, 2011, pp. 47 -75.
8. H. V. Ravindra and Nixon Kuruvila, "Optimization and Influence of Process parameters using Taguchi Technique on various Steel Materials", Journal of Mechanical Engineering (Accepted).
9. H. V. Ravindra and Nixon Kuruvila, "Multi-Objective Optimization and Influence of Process parameters in WEDM using Genetic Algorithm on various steel materials", International Journal of Advances in Material science & Engineering (Accepted).
10. H. V. Ravindra and Naveen Prakash G. V., "Acoustic Emission Signals for Monitoring of Spindle Bearing in Drilling Machine", International Journal of Emerging Technologies and Applications in Engineering Technology and Sciences, Vol. 4, Issue. 1, 2011, pp. 127-130.
11. H. V. Ravindra and Sudev L. J., "Thrust, Torque and Tool Tip Temperature Signals for Monitoring Cutting Tool in Drilling Process", Accepted for publication in International Journal of Emerging Technologies and Applications in Engineering Technology and Sciences, Vol. 4, Issue. 2, 2011.

12. H. V. Ravindra, Y. T. Krishnegowda, C.J.Gangadara Gowda, Vikram C.K and Manu “Numerical simulation of two dimensional unsteady flow past two square cylinders”, The proceedings of the international joint journal conference on Engineering and Technology, 2011, pp. 355-360.
13. H. V. Ravindra and K.M.Sathish Kumar, “Vibration analysis of defective spindle bearings and gear of a lathe tool structure using finite element analysis”, International Journal of computer applications in Engineering, Technology and Sciences (IJ-CA-ETS), Vol. 4, Issue. 1, Oct-2011 to March 2012, pp. 233-239.
14. H. V. Ravindra, S. L. Ajit Prasad, T. D. P. Rajan, U.Prakash and Ashokkumar, ”Statistical Analysis for Detecting Tool Wear in Turning A356 MMC with 20% SiC using GMDH”, Global Journal of Mechanical Engineering and Computational Science, 2012, Vol. 2, No. 2, ISSN :2249-3468.
15. H.V.Ravindra, Y.T.Krishnegowda and Y.D. Chethan. “Drill wear estimation based on Machine Vision signals with ANOVA”, International Journal of Emerging trends in Engineering and Development (IJETED), ISSN No: 2249-6149, UK, 2013.
16. H.V.Ravindra, G. Ugrasen, G V Naveen Prakash and D.L Vinay, “Comparative study of electrode wear estimation in wire EDM using multiple regression analysis and group method data handling technique for EN-8 and EN-19”, Bonfring International Journal of Industrial Engineering and Management Science, Vol. 4, No. 2, May 2014, pp. 108-114.
17. H.V.Ravindra, G.Ugrasen, G.V.Naveen Prakash and R.Keshavamurthy, “Comparison of Machining Responses using Multiple Regression Analysis and Group Method Data Handling Technique of EN-19 Material in WEDM”, Applied Mechanics and Materials, Vols. 592-594, 2014, pp. 97-101.
18. H V, Ravindra, G.Ugrasen, G V, Naveen Prakash and Vinay D L, “Comparison of Electrode Wear in Wire EDM for P-20, EN-19 and Stavax Materials using Artificial Neural Networks”, Int. J. Precision Technology, Vol. 4, Nos. 3/4, 2014, pp.148–161.
19. H.V.Ravindra, G.Ugrasen, G.V.Naveen Prakash and R.Keshavamurthy, “Process optimization and estimation of machining performances using artificial neural network in wire EDM”, Procedia Materials Science, Vol. 6, 2014, pp. 1752-1760.
20. H.V.Ravindra, G.Ugrasen, G.V.Naveen Prakash and R.Keshavamurthy, “Estimation of machining performances using MRA, GMDH and artificial neural network in wire EDM of EN-31”, Procedia Materials Science, Vol. 6, 2014, pp. 1788-1797.
21. H.V.Ravindra, B.M.Umeshgowda, S.Pratheek Jain, Mohinder N Raj, G.V.Naveen Prakash and G.Ugrasen, “Comparative study of surface roughness and cylindricity of aluminium silicon nitride material using MRA, GMDH and pattern recognition technique in drilling”, Procedia Materials Science, Vol. 6, 2014, pp. 1770-1779.

22. H.V.Ravindra, B.M.Umeshgowda, Ullas M, G.V.Naveen Prakash and G.Ugrasen, "Estimation of circularity, cylindricity and surface roughness in drilling AlSi<sub>3</sub>N<sub>4</sub> metal matrix composites using artificial neural network", *Procedia Materials Science*, Vol. 6, 2014, pp. 1780-1787.
23. H.V. Ravindra, G.Ugrasen, G.V.Naveen Prakash and R.Keshavamurthy, "Comparison of machining performances using multiple regression analysis and group method data handling technique in Wire EDM of Stavax material", *Procedia Materials Science*, Vol. 5, 2014, pp. 2215-2223.
24. H.V.Ravindra, B.M.Umeshgowda, H.R.Gurupavan, G.Ugrasen and G.V.Naveen Prakash, "Optimization of process parameters in drilling Al-Si<sub>3</sub>N<sub>4</sub> metal matrix composites material using Taguchi technique", *Procedia Materials Science*, Vol. 5, 2014, pp. 2207-2214.
25. H. V. Ravindra, Y.D.Chethan, Y.T.Krishne Gowda and Mohan Kumar G.D., "Parametric optimization in drilling EN-8 tool steel and drill wear monitoring using Machine vision applied with Taguchi method", *Procedia Materials Science*, Vol. 5, 2014, pp. 1442-1449.
26. H.V.Ravindra, G.Ugrasen, G.V.Naveen Prakash and Y.N.Theertha Prasad, "Optimization of process parameters in wire EDM of HCHCr material using Taguchi's technique", *Materials today: Proceedings*, Vol. 2, 2015, pp. 2443-2452.
27. H V Ravindra, Y D Chethan, Y T Krishne gowda and Bharath Kumar S, "Machine vision for tool status monitoring in turning Inconel 718 using blob analysis", *Materials today: Proceedings*, Vol. 2, 2015, pp. 1481-1848.
28. H.V.Ravindra, B.M.Umesh gowda, G.V.Naveen Prakash, P.Nishanth and G.Ugrasen, "Optimization of process parameters in drilling of epoxy Si<sub>3</sub>N<sub>4</sub> composite material", *Materials today: Proceedings*, Vol. 2, 2015, pp. 2852-2861.
29. H.V.Ravindra,U.Prakash and S.L.Ajith Prasad, "Study of parametric influence on dry sliding wear of Al-SiCp MMC using Taguchi technique", *Materials today: Proceedings*, Vol. 2, 2015, pp. 1825-1832.
30. H.V.Ravindra,S.Prathik Jain, G.Ugrasen, G.V.Naveen Prakash and K.Anil Kumar, "Estimation of Surface Roughness and AE Signals while Machining of Titanium grade-2 Material in WEDM", *Journal of Computational Methods in Sciences and Engineering*, IOS press, STM publishing house (Accepted).
31. H V Ravindra, Y D Chethan, Y T Krishne Gowda and Bharath Kumar S, "Application of Digital Image Processing in Parametric Optimization of Turning Inconel 718 by Taguchi Technique with Coated Carbide Inserts", *Journal of Computational Methods in Sciences and Engineering*, IOS press, STM publishing house (Accepted).
32. H V Ravindra, Prathik Jain S and Ugrasen G, "Comparative study of Surface Roughness and AE Signals while Machining Titanium Grade 2 & Stavax Materials using MRA and GMDH

- in WEDM”, International Journal of Advanced Scientific Research and Management, Vol. 1, Issue 1, January 2016, pp. 6-14.
33. H.V.Ravindra, G.Ugrasen, G.V.Naveen Prakash, Prathik Jain S, Nandini K N, “Estimation of Surface Roughness and AE Parameters in Machining of P20 and Stavax Material in Wire Electric Discharge Machining”, COPEN-9, IIT-Bombay, December, 10-12, 2015, Int. J. Precision Technology, (Accepted).
  34. H V Ravindra, Vishwa R Surya, K.M.Vinay Kumar, R.Keshavamurthy and G.Ugrasen, “Prediction of Machining Characteristics using Artificial Neural Network in Wire EDM of Al7075 based In-situ Composite”, Materials today: Proceedings, Vol. 4, 2016, pp. 203-212.
  35. H V Ravindra, Rakshith Gowda D S and Tarun K Mehta, “Modal Analysis of Organic-matrix Composites with different % of Si<sub>3</sub>N<sub>4</sub>”, International Journal of Scientific & Engineering Research, ISSN: 22295518, Vol. 7, Issue 5, May-2016, pp. 1072-1075.
  36. H.V.Ravindra, G.Ugrasen, G.V.Naveen Prakash, Prathik Jain S and Y S Rammohan, “Study of Surface Roughness and AE Signals while Machining Titanium Grade-2 Material using ANN in WEDM”, Materials today: Proceedings, Vol. 4, Issue 9, 2017, pp. 9557-9560.
  37. Ravindra H V, Gurupavan H R, Devegowda T M and Ugrasen G, “Estimation of Machining Performances in WEDM of Aluminium based Metal Matrix Composite Material using ANN”, Materials today: Proceedings, Vol. 4, Issue 9, 2017, pp. 10035-10038.
  38. Ravindra H V, Ugrasen G, G V Naveen Prakash and R. Keshavamurthy, “Estimation and Comparison of Machining Performances in WEDM for HCHCr Material using MRA and GMDH”, International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE), Vol. 2, Issue 4, April 2017, pp. 643-649.
  39. H V Ravindra, Y D Chethan and Y T Krishnegowda, “Estimation of Machine Vision and Acoustic Emission Features in Turning Nimonic75 by ANN”, International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE), Vol. 2, Issue 4, April 2017, pp. 638-641.
  40. H V Ravindra, Umeshgowda B M and Ugrasen G, “Optimization of Cutting Parameters in Drilling of Epoxy Resin Composite Material using Taguchi’s Technique”, International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE), Vol. 2, Issue 4, April 2017, pp. 738-744.
  41. H V Ravindra, Prathik Jain S and Ugrasen G, “Estimation and Comparison of Surface Roughness and AE Parameters of P-20 tool steel Material in Wire Electric Discharge Machining using Multiple Regression Analysis and Group Method Data Handling Technique”, International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE), Vol. 2, Issue 4, April 2017, pp. 731-737.

42. H V Ravindra, Rudreshi Addamani and Darshan C S, "Optimization of P-GMAW Welding Parameters using Taguchi Technique", International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE), Vol. 2, Issue 4, April 2017, pp. 702-707.
43. H V Ravindra, Gurupavan H R and Devegowda T M, "Optimization of WEDM Parameters using Taguchi Technique in Machining of Metal Matrix Composite Material", International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE), Vol. 2, Issue 4, April 2017, pp. 714-719.
44. H V Ravindra, Ugrasen G, Keshavamurthy R, Vishwa R Surya and K M Vinay Kumar, "Prediction of Machining Characteristics using Artificial Neural Network in Wire EDM of Al7075 based In-situ Composite", Materials Today: Proceedings, Vol. 4, Issue 2, 2017, pp. 203-212.
45. H V Ravindra, Ugrasen G and M R Bhagawan Singh, "Optimisation of Process Parameters for SS304 in Wire Electrical Discharge Machining using Taguchi's Technique", Materials Today: Proceedings, Vol. 5, 2018, pp. 2877-2883.
46. H V Ravindra, Ugrasen G, Mukesh K G, Darshan B M, Sachin Sreenath and Shridhar B Koladur, "Estimation of Machining Performances using MRA and GMDH in Wire EDM of Al2024 based Hybrid MMC", Materials Today: Proceedings, Vol. 5, 2018, pp. 3084-3092.
47. H V Ravindra, Rudreshi Addamani and Ugrasen G, "Estimation and Comparison of Welding Performances using MRA and GMDH in P-GMAW for ASTM 106 Material" Materials Today: Proceedings, Vol. 5, 2018, pp. 2985-2993.
48. Rudreshi Addamani, H V Ravindra, Darshan C S, "Optimization of P-GMAW welding parameters using Taguchi technique for SS304L Pipes", Springer International proceedings & Publishing AG 2018, DOI 10.1007/978-3-319-53556-2\_81.
49. H.V.Ravindra, S.L.Ajith Prasad and U.Prakash, "Prediction of Tool Wear by Multiple Regression Analysis and Group Method of Data Handling in Turning A356 (10% SiC)", Materials Today: Proceedings, Vol. 5, 2018, pp. 2985-2993.
50. H V Ravindra, Gurupavan H R, Devegowda T. M, Rudreshi Addamani, "Machine Vision System for Correlating Wire Electrode Status and Machined Surface in WEDM of AlSi3N4 MMC'S" IOP Publishing: Materials Science and Engineering Vol. 376, pp. 012120, 2018.
51. H V Ravindra, Rudreshi Addamani, Gurupavan H R, Ugrasen G, "Estimation and Comparison of Welding Performances in P- GMAW using MRA and ANN for SS 304L Material" IOP Publishing: Materials Science and Engineering Vol. 376, pp. 012119, 2018.
52. Rudreshi Addamani, H V Ravindra and Y D Chethan, "Assessment of Weld Bead Mechanical Properties during Destructive Testing Using Image Processing by Multivision Technique", Lecture Notes in Electrical Engineering, Vol.545, PP.265-275, ISSN 1876-1100, 2019.

53. Gurupavan H R, H.V. Ravindra, Devegowda T. M, “Surface Roughness Measurement of WEDM Components Using Machine Vision System” Lecture Notes in Electrical Engineering, Vol.545, PP. 539-547, ISSN 1876-1100, 2019.
54. H V Ravindra, Y D Chethan and Y T Krishnegowda, “Machine Vision Assisted Performance Monitoring in Turning Inconel 718 material Using Image Processing”, Lecture Notes in Electrical Engineering, Vol.545, PP. 915-925, ISSN 1876-1100, 2019.
55. Rudreshi Addamani, H V Ravindra, Girish A, “Optimization of P-GMAW welding parameters using Taguchi technique for SS 316L material”, International Journal of Scientific Research and Review, Volume 07, Issue 05, May 2019, UGC Journal No.: 64650, pp. 130-137.
56. Gurupavan H R, H.V. Ravindra, Devegowda T. M, “Prediction and Comparison of Vision Parameter of Surface Roughness in WEDM of Al-6%Si<sub>3</sub>N<sub>4</sub> and Al-10%Si<sub>3</sub>N<sub>4</sub> Using ANN” Lecture Notes on Multidisciplinary Industrial Engineering, PP. 361-371, ISSN 2522-5022, 2019.
57. Prathik Jain S, H V Ravindra, G Ugrasen, “Estimation and Comparison of Electrode Wear and AE Parameters of Titanium and Stavax Materials in Wire Electric Discharge Machining using ANN”, Studies in Indian Place Names, ISSN: 2394-3114, Vol 40, Issue 40, March 2020, pp. 1589-1596.
58. Gurupavan H R, T.M. Devegowda, H.V. Ravindra, “Monitoring the Performance of Electrode Status and Surface Roughness in WEDM of Al-8% Si<sub>3</sub>N<sub>4</sub> using Vision System” Journal of Critical Reviews, Vol. 7, PP. 2590-2599, ISSN: 2394-5125, 2020.
59. RudreshiAddamani, H V Ravindra, Dr.Gayathridevi S K, “Evaluation of Weld Bead Mechanical Properties Using Image Processing during Destructive Testing by Multivision Technique”, Test Engineering and Managment, Volume 83, PP: 200 – 205, ISSN: 0193-4120, Publication Issue: July - August 2020.
60. RudreshiAddamani, H V Ravindra, Dr.Gayathridevi S K, “Estimation and Comparison of Welding Performances for ASTM A 106 Material in P-GMAW Using GMDH and ANN”, Journal of Critical Reviews, ISSN- 2394-5125 VOL 7, ISSUE 14, 2020, Received: 14 March 2020 Revised and Accepted: 8 July 2020.

#### **NATIONAL JOURNALS:**

1. H. V. Ravindra and Naveen Prakash G. V., “Estimation of AE Parameters for Monitoring Spindle Bearing in a Drilling Machine Using Multiple Regression and GMDH”, Journal of Manufacturing Engineering, Vol. 4, Issue. 3, 2009, pp. 168-174.

## INTERNATIONAL CONFERENCES:

1. H. V. Ravindra, M. Raghunandan, Y. G. Srinivasa and R. Krishnamurthy, "Modeling of tool wear", 10<sup>th</sup> Anniversary of UPCAEDM, Tennessee Technological University, USA, 16-19 August, 1992, pp 267-274.
2. H. V. Ravindra, Y. G. Srinivasa and R. Krishnamurthy, "Investigation of tool wear in metal cutting using Acoustic Emission", 7<sup>th</sup> Annual ASPE Conference, Orlando, Florida, USA, 8-23 October, 1992, pp. 224-227.
3. H. V. Ravindra, Y. G. Srinivasa and R. Krishnamurthy, "Tool wear monitoring in turning by Pattern recognition technique", First Asia Pacific Conference on material processing, National university of Singapore, Singapore, 22-23 Feb.,1993, pp. 731-740.
4. H. V. Ravindra, Y. G. Srinivasa and R. Krishnamurthy, "Multi Sensory approaches for tool wear monitoring in turning", Tooldiag 93, Toulouse, France, 5-7 April 1993, pp. 322-331.
5. H. V. Ravindra, G. P. Rajamani, Y. G. Srinivasa and R. Krishnamurthy, "Acoustic Emission as an artificial intelligence in metal cutting", Second International Conference and Exhibition on Computer Integrated Manufacturing, Singapore, 6-10 Sept. 1993.
6. H. V. Ravindra, Y. G. Srinivasa and R. Krishnamurthy, "On-line detection of tool failure in turning using Acoustic Emission", 8<sup>th</sup> Annual ASPE Conference, Washington, USA, 7-13, Nov. 1993.
7. H. V. Ravindra, Y. G. Srinivasa and R. Krishnamurthy, "AE for knowledge based automation in metal cutting", INCARF 1993, IIT, Delhi, 16-19 Dec., 1993, pp. 441- 458.
8. H. V. Ravindra, Y. G. Srinivasa and R. Krishnamurthy, "Comparative study of modelling for tool wear estimation in turning", Second Asia Pacific Conference on Material Processing, NSU, Singapore, 16-19 Nov. 1994.
9. H. V. Ravindra, Y. G. Srinivasa and R. Krishnamurthy, "Multi sensory methods for tool condition monitoring in turning", International Conference on Agile manufacturing, Bangalore,22 -24 Feb., 1996, pp. 147 - 154.
10. H. V. Ravindra and K. M. Sathish Kumar, "Vibrations Analysis for the Detection of Unbalanced forces and defective spindle bearing in lathe", International Conference on Emerging Technologies in Intelligent System and Control", KCT, Coimbatore, 5-7 Jan 2005, pp. 264 – 269.
11. H. V. Ravindra, Naveen Prakash G.V. and Jayaraj. U , "Monitoring the gear box and spindle bearings in drilling machine tool using finite element analysis", International Conference on Recent Advances in Material Processing Technology, NEC, Kovilpatti, 23-25 Feb 2005, pp. 211-217.
12. H. V. Ravindra, Chandrashekar S. and Naveen Prakash G. V., "Vibration analysis of drilling machine tool due to gear defect using finite element method", International Conference on

- Advances in Mechanical Engineering, Delhi Engineering College, Delhi, 22-23 Dec, 2005, pp. 61-62.
13. H. V. Ravindra, L. J. Sudev and M. Prashant, "Comparative study of intelligent approaches to tool failure detection in drilling using pattern recognition techniques", International Conference on Cognition and Recognition, PESCE, Mandya, 23-24 Dec 2005, pp. 83-89.
  14. H. V. Ravindra, and K. M. Sathish Kumar, "Study of Thermal Aspect on Elements of a Lathe using Finite Element Method", International Conference on Intelligent Systems and Control, Karpagam College of Engineering, Coimbatore, 9-11 Aug 2006, pp. 98.
  15. H. V. Ravindra and L. J. Sudev, "Comparative Study of Robust Pattern Recognition Techniques for tool failure detection in drilling", International Conference & 22nd AIMTDR conference –2006, IIT Roorkee, 21-23 Dec, 2006.
  16. H. V. Ravindra, Naveen Prakash G. V. and Thaveer Ahamed, "Comparative Study of Bearing Vibration in Drilling using GMDH and Multiple Regression Analysis", International Conference, Dr. B. R Ambedkar National Institute of Technology, Jalandhar, 22-24 March 2007, pp.5.
  17. H. V. Ravindra, Naveen Prakash G. V. and K. M. Sathish Kumar, "Monitoring of the Machine Elements in Machine Tools using Vibration Signals", 4<sup>th</sup> International Conference on Condition Monitoring, Harrogate, UK, 11–14 June 2007.
  18. H. V. Ravindra and Sathish Kumar K. M., "Comparative Study of bearing vibration estimation in Turning Using Multiple Regression Analysis & GMDH", International Conference on Modeling and Simulation, Coimbatore Institute of Technology, Coimbatore, 27-29 August 2007, pp. 48.
  19. H. V. Ravindra, Nixon Kuruvila and Manjunath B. B., "Estimation of surface roughness and accuracy using process parameters in wire cut EDM by artificial neural network", International Conference on Advances in Manufacturing Engineering–2007, Manipal Institute of Technology, Manipal, 24-26 Oct. 2007, p.30..
  20. H. V. Ravindra, Nixon Kuruvila and Manjunath B. B., "Estimation of surface roughness and dimensional accuracy using process parameters in wire cut EDM by artificial neural network", 9<sup>th</sup> International Symposium on Measurement and Quality Control, IIT Madras, Chennai, 21-24 Nov. 2007, pp. 380 -383.
  21. H. V. Ravindra and Naveen Prakash G. V., "Monitoring of Spindle Bearing in Drilling Machine using Acoustic Emission Signals", 15<sup>th</sup> ISME International Conference on Advances in Mechanical Engineering, Rajiv Gandhi Technological University, Bhopal, MP, India, 18-20 March, 2008.
  22. H. V. Ravindra and Sudev L. J., "Tool Wear Estimation by Artificial neural Network in Drilling using Acoustic Emission", International Conference on Cognition and Recognition, P. E. S. College of Engineering, Mandya, 10-12 April 2008, pp. 326-331.

23. H. V. Ravindra and K. M. Sathish Kumar, "Monitoring the Spindle Bearing of a Lathe using Acoustic Emission Signals", Second International Conference on Logistics and Supply Chain Management ILSCM 2008, PSG Institute of Technology, Coimbatore, 7-9 August 2008, pp. 37.
24. H. V. Ravindra and K. M. Sathish Kumar, "Estimation of AE Counts and AE Energy in a Lathe using Multiple Regression and GMDH", ASME 2008 International Mechanical Engineering Congress and Exposition (IMECE), Boston Massachusetts, United States, October 31 – November 6, 2008, pp. 81-88.
25. H. V. Ravindra and Naveen Prakash G. V., "Monitoring of the Machine Elements in Drilling Machine using Vibration Signals by FEM", ASME 2008 International Mechanical Engineering Congress and Exposition (IMECE), Boston Massachusetts, United States, October 31–November 6, 2008, pp. 89-96.
26. H. V. Ravindra and Sudev L. J., "Tool Wear Estimation in Drilling using Acoustic Emission Signal by Multiple Regression and GMDH", ASME 2008 International Mechanical Engineering Congress and Exposition (IMECE), Boston Massachusetts, United States from October 31 – November 6, 2008, pp. 97-106.
27. H. V. Ravindra and K. M. Sathish Kumar., "Monitoring the Spindle Bearing and Gear of a lathe structure using vibration signals by FEM", 2<sup>nd</sup> International and 23<sup>rd</sup> AIMTDR conference, IIT, Madras, 15 – 17 December 2008, pp. 25-30.
28. H. V. Ravindra and Sudev L. J., "An Artificial Neural Network Approach for Flank Wear Estimation in Drilling using Acoustic Emission", 2<sup>nd</sup> International and 23<sup>rd</sup> AIMTDR conference, IIT, Madras, 15–17 December 2008.
29. H. V. Ravindra and Nixon Kuruvila, "Parametric optimization & Influence of WEDM process on different materials", 2<sup>nd</sup> International and 23<sup>rd</sup> AIMTDR conference, IIT, Madras, 5–17 December 2008, pp. 489-494.
30. H. V. Ravindra and Naveen Prakash G. V., "Estimation of AE Parameters for Monitoring Spindle Bearing in a Drilling Machine Using Multiple Regression and GMDH", 2<sup>nd</sup> International Conference on Recent Advances in Material Processing Technology, National Engineering College, Kovilpatti (TN), 25- 27 Feb. 2009, pp. 580-586.
31. H. V. Ravindra and Nixon Kuruvila, "Optimization and Influence of Process Parameters for HDS Material in Wire EDM", International Conference on Frontiers in Mechanical Engineering (FIME), NITK, Surathkal, 20–22 May 2010.
32. H. V. Ravindra and Nixon Kuruvila, "Optimization and Influence of Process Parameters for Machining Oil Hardened Non Shrinking Steel (OHNS) In Wire-EDM", ASME 2010 International Mechanical Engineering Congress and Exposition (IMECE), Vancouver, British Columbia, Canada, from November 12–18, 2010.

33. H. V. Ravindra, Y. T. Krishnegowda and Vikram C. K., "Numerical Simulation of Flow Past Square Cylinders with Varying Pitch to Perimeter Ratio", International Conference on Advanced Materials, Manufacturing, Management and Thermal Sciences (AMMMT-2010), Siddaganga Institute of Technology, Tumkur, November 18 -19, 2010, p.187.
34. H. V. Ravindra, S. L. Ajit Prasad, T. D. P. Rajan, M. S. Ashok Kumar and U Prakash, "Tool Wear Prediction by Group Method of Data Handling (GMDH) in Turning A356 with 10% Sic", International Conference on Emerging Trends in Engineering, NMAM Institute of Technology, Nitte, May 4 -5, 2011.
35. H. V. Ravindra, Y. T. Krishnegowda, C.J.Gangadara Gowda, Vikram C.K and Manu "Numerical simulation of flow past two square cylinders of different perimeters", International Conference on Emerging Trends in Engineering (ICETE-2011), NMAM Institute of Technology, Nitte, May 4 -5, 2011.
36. H. V. Ravindra, S. L. Ajit Prasad, T. D. P. Rajan, G. N. Yogavardan Swamy and U Prakash, "Tool Wear Prediction by Regression Analysis in Turning A356 With 10% SIC", International Conference on Recent Advances in Intelligent Computational Systems (RAICS -2011) at Trivandrum, Sep 22-24,2011.
37. H. V. Ravindra and Nixon Kuruville, "Parametric Influence and Optimization of Wire EDM on Oil Hardened Non Shrinking Steel", International Conference on 2012 ASME Mechanical Engineering Congress and exposition at Denver, Colorado, USA, from November 11-17, 2011.
38. H. V. Ravindra and Ugrasen G, "Monitoring of Electrode in Wire Electrical Discharge Machining by Using Multi Sensory Approach", International Conference on Advanced Materials and Processing - ICAMP – 2011, RMK Engg. College, kavaraipettai, Chennai, Dec 19-20, 2011.
39. H. V. Ravindra, S. L. Ajit Prasad, T. D. P. Rajan, U.Prakash and Abhinandhan K.S, "Study of parametric influence on dry sliding wear of Al-SiCp MMC using Taguchi technique", International Conference on Advanced Materials and Processing - ICAMP – 2011, RMK Engg. College, kavaraipettai, Chennai, Dec 19-20, Dec 2011.
40. H. V. Ravindra, Y. T. Krishnegowda and Vikram.C.K, "A study of flow characteristics on two different sized square cylinders", International Conference on Recent Advances in Mechanical Engineering-INCRAME-2012, Dr.MGR Educational & Research Institute University, Chennai, April 19-20,2012.
41. H. V. Ravindra, Y.D. Chethan and B.M. Umeshgowda, "Estimation of tool wear in drilling using Machine vision system", International Conference on Recent Advances in Mechanical Engineering-ICCMOM-2012, Dr.MSRIT, Bangalore, July 11-13, 2012

42. H. V. Ravindra, Y. T. Krishnegowda and Vikram.C.K, "Influence of Corner Cutoffs on flow past Square Cylinders", International Conference on Recent Advances in Mechanical Engineering-ICCMOM-2012, Dr.MSRIT, Bangalore, July 11-13, 2012.
43. H. V. Ravindra, Y. T. Krishnegowda and Vikram.C.K, "Effect of Corner Cutoffs between two Square Cylinders in Tandem arrangements", International Conference on 2012 ASME Mechanical Engineering Congress and exposition - at Houston, Texas, Nov. 9-15, 2012.
44. H. V. Ravindra, Y. T. Krishnegowda and Ugrasen G, "Comparative Study of Electrode Wear Estimation in Wire Cut Electric Discharge Machine Using Multiple Regression Analysis & GMDH Technique", International Conference on 2012 ASME Mechanical Engineering Congress and exposition - at Houston, Texas, Nov. 9-15, 2012.
45. H.V. Ravindra, Nixon Kuruvilla and joe Elambasseril, "Parametric Influence and Optimization of Wire EDM on Hot die Steel", 7<sup>th</sup> Australasian Congress on applied Mechanics (ACAM 7) at The university of Adelaide, Australia, 9<sup>th</sup>-12<sup>th</sup> December, 2012.
46. H. V. Ravindra and G.Ugrasen, "Electrode Wear Estimation and Parametric Optimization in Wire Cut Electric Discharge Machine for P-20 Steel Using Multiple Regression Analysis and Group Method Data Handling Technique", 4<sup>th</sup> International and 25<sup>th</sup> AIMTDR Conference - 2012, Jadavpur University, Dec 14-16, 2012.
47. H. V. Ravindra and B. M. Umesh Gowda, "Estimation of surface roughness and cylindricity in drilling of composite material using MRA and GMDH techniques, 4<sup>th</sup> International Conference on Recent Advances in composite Materials (ICRACM-2013), IIT(BHU), Goa, India 19-21, 2013.
48. H.V.Ravindra, Ugrasen G. and Naveen Prakash, G.V., "Process parametric optimization in wire Electric Discharge Machining for P-20 material", International Conference on Advanced Engineering Optimization Through Intelligent Techniques (AEOTIT), S.V. NIT, Surat, India 422-426, 2013.
49. H.V.Ravindra, Umesh Gowda B M, Naveenprakash, G.V. and Prathik Jain S., "Study of Surface Roughness and Cylindricity in Aluminum Silicon Nitride Material Using Pattern Recognition Technique in Drilling", International Conference on Smart Technologies for Mechanical Engineering (STME -2013), 25-26 Oct. 2013, Delhi, pp. 720-725.
50. H.V.Ravindra, Ugrasen G, Naveen Prakash, G.V. and Vinay D L., "Comparative study of electrode wear estimation in Wire EDM using multiple regression analysis and Group Method Data Handling Technique for EN-8 and EN-19", International Conference on Smart Technologies for Mechanical Engineering (STME -2013), 25-26 Oct. 2013, Delhi, pp. 851-857.
51. H.V.Ravindra, Y.T.Krishnegowda. and Y D Chetan., "Monitoring of drill wear state using blob analysis technique by Machine Vision", International Conference on Precision, MESO, MICRO and NANO Engineering (COPEN-8), 13-15 Dec. 2013, NIT, Calicut, Kerala.

52. H.V.Ravindra, Ugrasen G, Naveenprakash G.V. and Vinay.D.L., “Comparison of Electrode wear in Wire EDM for P-20, En-19 and stavax materials using Artificial Neural Networks”, International Conference on Precision, Meso, Micro and Nano Engineering (COPEN-8), 13-15 Dec. 2013, NIT, Calicut, Kerala.
53. H. V. Ravindra, G.Ugrasen. G, Naveenprakash, G.V. and R K Keshavamurthy, “Estimation of Machining Performances using MRA, GMDH and Artificial Neural Network in Wire of EN-31”, 3<sup>rd</sup> International Conference on materials Processing and Characterization (ICMPC 2014), 8-9 March, 2014, GRIET, Hyderabad.
54. H. V. Ravindra, Ugrasen G, Naveenprakash, G.V. and R K Keshavamurthy, “Process Optimization and estimation of machining performances using artificial neural network in wire EDM”, 3<sup>rd</sup> International Conference on materials Processing and Characterisation (ICMPC-2014), 8-9 March, 2014, Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Hyderabad.
55. H. V. Ravindra, B M Umesh Gowda, S Prathik Jain, Mohinder N Raj, Naveenprakash, G.V. and Ugrasen G, “Comparative study of surface roughness and cylindricity of aluminium silicon nitride material using MRA GMDH and pattern recognition in drilling”, 3<sup>rd</sup> International Conference on materials Processing and Characterisation (ICMPC-2014), 8-9 March, 2014, GRIET, Hyderabad.
56. H. V. Ravindra, B M Umesh Gowda, M Ullas, Naveenprakash,G.V. and Ugrasen. G, “Estimation of circularity, Cylindricity and surface roughness in drilling Al-Si<sub>3</sub>N<sub>4</sub> metal matrix composites using artificial neural network”, 3<sup>rd</sup> International Conference on materials Processing and Characterisation (ICMPC-2014), 8-9 March, 2014, GRIET, Hyderabad.
57. H. V. Ravindra, B M Umesh Gowda, H.R.Gurupavan, Naveenprakash,G.V. and Ugrasen G, “Optimization of process parameters in drilling Al-Si<sub>3</sub>N<sub>4</sub> metal matrix composites material using Taguchi technique”, International Conference on Advances in Manufacturing and Materials Engineering (ICAMME-2014), 27<sup>th</sup> –29<sup>th</sup> March, 2014, NITK, Surathkal.
58. H. V. Ravindra, Y.D.Chethan, Y.T.Krishne Gowda. and Mohan Kumar G.D., “Parametric optimization in drilling EN-8 tool steel and drill wear monitoring using Machine vision applied with Taguchi method”, International Conference on Advances in Manufacturing and Materials Engineering (ICAMME-2014), 27<sup>th</sup> – 29<sup>th</sup> March, 2014, NITK, Surathkal.
59. H. V. Ravindra, Ugrasen. G, Naveenprakash,G.V. and R.Keshavamurthy, “Comparison of machining performances using MRA and GMDH in Wire EDM of stavax material”, International Conference on Advances in Manufacturing and Materials Engineering (ICAMME-2014), 27<sup>th</sup> –29<sup>th</sup> March, 2014, NITK, Surathkal.
60. H. V. Ravindra, .G.Ugrasen, G.V Naveenprakash and R.Keshavamurthy., “Comparison of machining responses using multiple regression analysis and group method data handling

- technique of EN-19 material in WEDM”, International Conference on 2014 IMEC Mechanical Engineering Congress- at Tiruchirappalli, Tamilnadu, India, Jun13-15, 2014.
61. H. V. Ravindra, G.Ugrasen, G.V Naveenprakash and H.C Nagesh, “Comparison and estimation of electrode wear in wire EDM of machining EN-31 using MRA and GMDH”, International Conference on current trends in engineering and management (ICCTEM-2014), VVCE, Mysore, India Jun 17-19, 2014, pp. 313-318.
  62. H. V. Ravindra, Ugrasen.G., Naveenprakash,G.V. and R.Keshavamurthy, ”Comparison of machining performances using MRA, GMDH and ANN in WEDM of EN-8 material International Conference on 2014 ASME Mechanical Engineering Congress and exposition - Montreal, Canada, USA Nov.14-20, 2014
  63. H. V. Ravindra, B.M.Umesh Gowda, Ugrasen.G. and Naveenprakash,G.V., “Comparison of machining performances in drilling Al-Si<sub>3</sub>N<sub>4</sub> metal matrix composites material using MRA and GMDH”, International Conference on 2014 ASME Mechanical Engineering Congress and exposition - Montreal, Canada, USA Nov.14-20, 2014.
  64. H. V. Ravindra, Ugrasen.G. and Naveenprakash,G.V. ”Comparison of machining performances of P-20 Material in wire electric discharge machining using group method data handling technique”, International Conference on 2014 AIMTDR, IIT Guwahati, India Dec 12-14, 2014.
  65. H V Ravindra, Y D Chethan, Y T Krishne Gowda and Bharath Kumar S, “Application of Digital Image Processing in Parametric Optimization of Turning Inconel 718 by Taguchi Technique with Coated Carbide Inserts”, International Conference Computational Methods in Engineering and Health Sciences (ICCMEH-2014), Directorate of Research, Manipal University, Manipal-576 104, 2014.
  66. H.V.Ravindra, S.Prathik Jain, G.Ugrasen, G.V.Naveen Prakash and K.Anil Kumar, “Estimation of Surface Roughness and AE Signals while Machining of Titanium grade-2 Material in WEDM”, International Conference Computational Methods in Engineering and Health Sciences (ICCMEH-2014), Directorate of Research, Manipal University, Manipal-576 104, 2014.
  67. H.V.Ravindra, G.Ugrasen, G.V.Naveen Prakash and Y.N.Theertha Prasad, “Optimization of process parameters in wire EDM of HCHCr material using Taguchi’s technique”, 4<sup>th</sup> International Conference on materials Processing and Characterisation (ICMPC-2015), 14-15 March, 2015, GRIET, Hyderabad.
  68. H V Ravindra, Y D Chethan, Y T Krishne gowda and Bharath Kumar S, “Machine vision for tool status monitoring in turning Inconel 718 using blob analysis”, 4<sup>th</sup> International Conference on materials Processing and Characterisation (ICMPC-2015), 14-15 March, 2015, GRIET, Hyderabad.

69. H.V.Ravindra, B.M.Umesh gowda, G.V.Naveen Prakash, P.Nishanth and G.Ugrasen, "Optimization of process parameters in drilling of epoxy Si<sub>3</sub>N<sub>4</sub> composite material", 4th International Conference on materials Processing and Characterisation (ICMPC-2015) 14-15 March, 2015, GRIET, Hyderabad.
70. H.V.Ravindra, S.L.Ajith Prasad and U.Prakash, "Study of parametric influence on dry sliding wear of Al-SiCp MMC using Taguchi technique", 4th International Conference on materials Processing and Characterisation (ICMPC-2015) 14-15 March, 2015, GRIET, Hyderabad.
71. H V Ravindra, Chethan Y D, Mohankumar G D and Vijay Kumar M Patil, "Parametric optimization in drilling of EN-8 using Taguchi technique and surface roughness estimation using multiple regression analysis", International Conference on Innovations & Emerging Trends in Mechanical Engineering (IIETME-2014), 13<sup>th</sup> June 2014, Department of Mechanical Engineering, Nagarjuna College of Engineering and Technology, Bangalore, pp. 260-266, 2014.
72. H.V.Ravindra, G.Ugrasen, G.V.Naveen Prakash, R.Keshavamurthy, "Comparison of Machining Performances in Wire EDM for HCHCr Material using Group Method Data Handling Technique and Artificial Neural Network", ASME International Mechanical Engineering Congress and exposition (IMECE-2015), Houston, Texas, USA Nov.13-19, 2015.
73. H V Ravindra, Chethan Y D and Y.T. Krishne gowda, "Estimation of Machine Vision and Acoustic Emission Parameters for Tool Status Monitoring in Turning using Artificial Neural Network", ASME International Mechanical Engineering Congress and exposition (IMECE-2015), Houston, Texas, USA Nov.13-19, 2015.
74. H.V.Ravindra, S.Prathik Jain, G.Ugrasen and G.V.Naveen Prakash, "Estimation and Comparison of Acoustic Emission Parameters and Surface Roughness in Wire Cut Electric Discharge Machining of Stavax Material using Multiple Regression Analysis and Group Method Data Handling Technique", ASME International Mechanical Engineering Congress and exposition (IMECE-2015), Houston, Texas, USA Nov.13-19, 2015.
75. H. V. Ravindra, Y. T. Krishnegowda and Vikram.C.K, "Effect of Corner Cutoffs between two Square Cylinders in Tandem arrangements" ASME International Mechanical Engineering Congress and exposition (IMECE-2015), Houston, Texas, USA Nov.13-19, 2015.
76. H.V.Ravindra, G.Ugrasen, G.V.Naveen Prakash, R.Keshavamurthy, "Comparison of Machining Performances in Wire EDM of Al<sub>2</sub>O<sub>3</sub> based Hybrid MMC using MRA, GMDH and ANN", COPEN-9, IIT-Bombay, December, 10-12, 2015.
77. H.V.Ravindra, G.Ugrasen, G.V.Naveen Prakash, Prathik Jain S, Nandini K N, "Estimation of Surface Roughness and AE Parameters in Machining of P20 and Stavax Material in Wire Electric Discharge Machining", COPEN-9, IIT-Bombay, December, 10-12, 2015.

78. H.V.Ravindra, Gurupavan H R, T.M. Devegowda, Monisha p, "Optimization of Machining Parameters in WEDM of Al-Si<sub>3</sub>N<sub>4</sub> Metal Matrix Composite Material using Taguchi Technique", COPEN-9, IIT-Bombay, December, 10-12, 2015.
79. H.V. Ravindra, B.M.Umesh gowda, Sachin S R, "Optimization of Cutting Parameters in Drilling of CFRE Composite Material using Taguchi's Technique", COPEN-9, IIT-Bombay, December, 10-12, 2015.
80. H V Ravindra, Chethan Y D and Y.T. Krishne gowda, "Acoustic emission assisted Monitoring and Optimization of cutting Parameters in turning of nickel base super alloy", COPEN-9, IIT-Bombay, December, 10-12, 2015.
81. H.V. Ravindra, Y.S. Rammohan, M.R. Srinivasa, G.Ugrasen, Chethana K Y and Keshavamurthy R, "Effect of Thrust Force, Vibration and Temperature on Drilling of Aluminium Alloy with Silicon Nitride Reinforcement", COPEN-9, IIT-Bombay, December, 10-12, 2015.
82. H.V. Ravindra, Y.S. Rammohan, M.R. Srinivasa, G.Ugrasen, Chethana K Y and Keshavamurthy R, "Process Parameter Optimization in Drilling of Epoxy Resin Reinforced with Carbon Fibers and Silicon Nitride", COPEN-9, IIT-Bombay, December, 10-12, 2015.
83. H V Ravindra, Chethan Y D, and Y.T. Krishne gowda, "Machine Vision for Machined Surface Texture Monitoring in Turning Nickel-base super alloy", ICERT-2015 PESCE, Mandya.
84. H V Ravindra, Vishwa R Surya, K.M.Vinay Kumar, R.Keshavamurthy and G.Ugrasen, "Prediction of Machining Characteristics using Artificial Neural Network in Wire EDM of Al7075 based In-situ Composite", 5<sup>th</sup> International Conference on materials Processing and Characterization (ICMPC-2016), 12-13 March, 2016, GRIET, Hyderabad.
85. H.V.Ravindra, G.Ugrasen, G.V.Naveen Prakash, Prathik Jain S and Y S Rammohan, "Study of Surface Roughness and AE Signals while Machining Titanium Grade-2 Material using ANN in WEDM", International Conference on Recent Trends in Engineering and Material Sciences (ICEMS-2016), March 17-19, 21016, Jaipur National University, Jaipur, India.
86. H V Ravindra, Gurupavan H R, Devegowda T M and Ugrasen G, "Estimation of Machining Performances in WEDM of Aluminium based Metal Matrix Composite Material using ANN", International Conference on Recent Trends in Engineering and Material Sciences (ICEMS-2016), March 17-19, 21016, Jaipur National University, Jaipur, India.
87. H V Ravindra, M R Bhagawan Singh, Ugrasen G, Nischay B L, Bharath N, Samarth R K and Varneya Vikrant, "Optimisation of Process Parameters for SS304 in Wire Electrical Discharge Machining using Taguchi's Technique", International Conference on Advanced Materials and Applications (ICAMA-2016), June 15-17, 2016, BMS College of Engineering, Bangalore.

88. H V Ravindra, Ugrasen G, Mukesh K G, Darshan B M, Sachin Sreenath and Shridhar B Koladur, "Estimation of Machining Performances using MRA and GMDH in Wire EDM of Al2024 based Hybrid MMC", International Conference on Advanced Materials and Applications (ICAMA-2016), June 15-17, 2016, BMS College of Engineering, Bangalore.
89. H V Ravindra, Umeshgowda B M and Ugrasen G, "Optimization of Cutting Parameters in Drilling of Epoxy Resin Composite Material using Taguchi's Technique", International Conference on Advanced Materials and Applications (ICAMA-2016), June 15-17, 2016, BMS College of Engineering, Bangalore.
90. H V Ravindra, Rudreshi Addamani and Ugrasen G, "Estimation and Comparison of Welding Performances using MRA and GMDH in P-GMAW for ASTM 106 Material", International Conference on Advanced Materials and Applications (ICAMA-2016), June 15-17, 2016, BMS College of Engineering, Bangalore.
91. H.V.Ravindra, S.L.Ajith Prasad and U.Prakash, "Prediction of Tool Wear by Multiple Regression Analysis and Group Method of Data Handling in Turning A356 (10% SiC)", International Conference on Advanced Materials and Applications (ICAMA-2016), June 15-17, 2016, BMS College of Engineering, Bangalore.
92. H V Ravindra, Chethan Y D and Y.T. Krishne gowda, "Estimation of Machine Vision Parameters in Turning Nimonic75 Using Coated Carbide Inserts by ANN", 6<sup>th</sup> International & 27<sup>th</sup> All India Manufacturing Technology, Design and Research (AIMTDR-2016), 16-18, December, 2016, Department of Production Engineering and Industrial Management, College of Engineering Pune.
93. H V Ravindra, Ugrasen G and G V Naveen Prakash, "Estimation of Machining Performances using GMDH and ANN in Wire EDM of Al2024 based Hybrid MMC", 6<sup>th</sup> International & 27<sup>th</sup> All India Manufacturing Technology, Design and Research (AIMTDR-2016), 16-18, December, 2016, Department of Production Engineering and Industrial Management, College of Engineering Pune.
94. H V Ravindra, Umeshgowda B M and Ugrasen G, "Estimation and comparison of Cutting Parameters in Drilling of Epoxy Resin Composite Material using GMDH and ANN", 6<sup>th</sup> International & 27<sup>th</sup> All India Manufacturing Technology, Design and Research (AIMTDR-2016), 16-18, December, 2016, Department of Production Engineering and Industrial Management, College of Engineering Pune.
95. H V Ravindra, Gurupavan H R and Devegowda T M, "Machine Vision System for Correlating Wire Electrode Status and Machined Surface in WEDM of AlSi3N4 MMC'S", 6<sup>th</sup> International & 27<sup>th</sup> All India Manufacturing Technology, Design and Research (AIMTDR-2016), 16-18, December, 2016, Department of Production Engineering and Industrial Management, College of Engineering Pune.

96. H V Ravindra, Rudreshi Addamani, Darshan C S and Ugrasen G, "Optimization of Process Parameters in Pulsed Gas Metal Arc Welding for ASTM 106 Material using Taguchi's Technique", 6<sup>th</sup> International & 27th All India Manufacturing Technology, Design and Research (AIMTDR-2016), 16-18, December, 2016, Department of Production Engineering and Industrial Management, College of Engineering Pune.
97. H V Ravindra, Prathik S Jain, Naveen Prakash G V and Ugrasen G, "Machining and Estimation of Surface Roughness and AE Parameters of P-20 Material in Wire Electric Discharge Machining using Artificial Neural Network", 6<sup>th</sup> International & 27th All India Manufacturing Technology, Design and Research (AIMTDR-2016), 16-18, December, 2016, Department of Production Engineering and Industrial Management, College of Engineering Pune.
98. H V Ravindra, Y T Krishnegowda and Vikram C K, "Numerical Analysis of Two Square Cylinders of Smaller and Larger Size with and Without Corner Modification", International Mechanical Engineering Congress & Exposition, ASME-IMECE-2016, November, 11-17, 2016, Phoenix Convention Centre, Phoenix, Arizona, USA.
99. Ravindra H V, Ugrasen G, G V Naveen Prakash and R. Keshavamurthy, "Estimation and Comparison of Machining Performances in WEDM for HCHCr Material using MRA and GMDH", International Conference on Advances in Mechanical Engineering Sciences (ICAMES-17), April 21-22, P.E.S. College of Engineering, Mandya, Karnataka.
100. H V Ravindra, Y D Chethan and Y T Krishnegowda, "Estimation of Machine Vision and Acoustic Emission Features in Turning Nimonic75 by ANN", International Conference on Advances in Mechanical Engineering Sciences (ICAMES-17), April 21-22, P.E.S. College of Engineering, Mandya, Karnataka.
101. H V Ravindra, Umeshgowda B M and Ugrasen G, "Optimization of Cutting Parameters in Drilling of Epoxy Resin Composite Material using Taguchi's Technique", International Conference on Advances in Mechanical Engineering Sciences (ICAMES-17), April 21-22, P.E.S. College of Engineering, Mandya, Karnataka.
102. H V Ravindra, Prathik Jain S and Ugrasen G, "Estimation and Comparison of Surface Roughness and AE Parameters of P-20 tool steel Material in Wire Electric Discharge Machining using Multiple Regression Analysis and Group Method Data Handling Technique", International Conference on Advances in Mechanical Engineering Sciences (ICAMES-17), April 21-22, P.E.S. College of Engineering, Mandya, Karnataka.
103. H V Ravindra, Rudreshi Addamani and Darshan C S, "Optimization of P-GMAW Welding Parameters using Taguchi Technique", International Conference on Advances in Mechanical Engineering Sciences (ICAMES-17), April 21-22, P.E.S. College of Engineering, Mandya, Karnataka.

104. H V Ravindra, Gurupavan H R and Devegowda T M, "Optimization of WEDM Parameters using Taguchi Technique in Machining of Metal Matrix Composite Material", International Conference on Advances in Mechanical Engineering Sciences (ICAMES-17), April 21-22, P.E.S. College of Engineering, Mandya, Karnataka.
105. H V Ravindra, S Prathik Jain, G Ugrasen and G V Naveen Prakash, "Estimation and Comparison of Electrode Wear and AE Parameters in Machining of P-20 Tool Steel Material in Wire Electric Discharge Machining using MRA and GMDH", International conference on Precision, Meso, Micro and Nano Engineering, (COPEN-10), December 07-09, 2017, Indian Institute of Technology Madras, Chennai – 600 036, INDIA, ISBN: 978-93-80689-28-9, pp. 591-594.
106. H V Ravindra, Y D Chethan, Y T Krishne gowda, Ugrasen G, B M Umesh Gowda, "Machine Vision for Performance Status Monitoring in Turning Nickel Base Super Alloy Using Image Processing", International conference on Precision, Meso, Micro and Nano Engineering, (COPEN-10), December 07-09, 2017, Indian Institute of Technology Madras, Chennai – 600 036, INDIA, ISBN: 978-93-80689-28-9, pp. 464-467.
107. H V Ravindra, Ugrasen G, B M Umeshgowda, Y D Chethan and G V Naveen Prakash, "Estimation of Machining Performances using GMDH and ANN in Wire EDM of Cu-1Cr-0.1Zr Alloy", International conference on Advances in Manufacturing, Materials & Energy Engineering (Icon MME-2018), MITE, Mangalore, March 02nd – 03rd, 2018 IOP Conf. Series: Materials Science and Engineering 376 (2018) 012132 doi:10.1088/1757-899X/376/1/012132.
108. H V Ravindra, Rudreshi Addamani, Gurupavan H R and Ugrasen G, "Estimation and Comparison of Welding Performances in P- GMAW using MRA and ANN for SS 304L Material", International conference on Advances in Manufacturing, Materials & Energy Engineering (Icon MME-2018), MITE, Mangalore, March 02<sup>nd</sup> – 03<sup>rd</sup>, 2018, IOP Conf. Series: Materials Science and Engineering 376 (2018) 012119 doi:10.1088/1757-899X/376/1/012119.
109. H V Ravindra, Gurupavan H R, Devegowda T M and Rudreshi Addamani, "Machine Vision System for Correlating Wire Electrode Status and Machined Surface in WEDM of AlSi3N4 MMC'S", International conference on Advances in Manufacturing, Materials & Energy Engineering (Icon MME-2018), MITE, Mangalore, March 02<sup>nd</sup> – 03<sup>rd</sup>, 2018, IOP Conf. Series: Materials Science and Engineering, 376, (2018), 012120, doi:10.1088/1757-899X/376/1/012120
110. H V Ravindra, Ugrasen G, Nithish R Rao and G V Naveen Prakash, "Optimization of Process Parameters in Wire EDM of Cu-Cr-Zr Alloy Material using Taguchi's Technique", International Conference on Trends in Industrial & Value Engineering Business and Social

- Innovation (ICIVBS-2018), Department of Industrial Engineering & Management, Dayananda Sagar College of Engineering, Bengaluru, Karnataka, April 02nd – 04th, 2018.
111. H V Ravindra, Ugrasen G, Pavan K S and G V Naveen Prakash, “Optimization of Process Parameters in WEDM of Al5%SiC MMC Material using Taguchi’s Technique”, International Conference on Trends in Industrial & Value Engineering Business and Social Innovation (ICIVBS-2018), Department of Industrial Engineering & Management, Dayananda Sagar College of Engineering, Bengaluru, Karnataka, April 02nd – 04th, 2018.
  112. H V Ravindra, Rudreshi Addamani, Ugrasen G and Chethan Y D, “Estimation and Comparison of Welding Performances using MRA and GMDH in P- GMAW for SS 316L Material” ASME-IMECE-2018.
  113. Rudreshi Addamani, H V Ravindra and Y D Chethan, “ Assessment of Weld Bead Mechanical Properties during Destructive Testing Using Image Processing by Multivision Technique”, 3<sup>rd</sup> International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT-2018), August 23<sup>rd</sup> – 24<sup>th</sup> 2018, P.E.S. College of Engineering, Mandya-571 401.
  114. H V Ravindra, Gurupavan H R and Devegowda T M, “ Surface Roughness Measurement of WEDM Components using Machine Vision System”, 3<sup>rd</sup> International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT-2018), August 23<sup>rd</sup> – 24<sup>th</sup> 2018, P.E.S. College of Engineering, Mandya-571 401.
  115. H V Ravindra, Y D Chethan and Y T Krishnegowda, “Machine Vision Assisted Performance Monitoring in Turning Inconel 718 material Using Image Processing”, 3<sup>rd</sup> International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT-2018), August 23<sup>rd</sup> – 24<sup>th</sup> 2018, P.E.S. College of Engineering, Mandya-571 401.
  116. H V Ravindra, Rudreshi Addamani, and Ugrasen G, “Estimation and Comparison of Welding Performances using MRA and ANN in Pulsed Gas Metal Arc Welding (P-GMAW) for ASTM A106 Material”, International Conference on Mechanical Engineering & Allied Sciences 14<sup>th</sup>-15<sup>th</sup> September, 2018, School of Mechanical Engineering, Shri Mata Vaishno Devi University, Katra, J&K-182320.
  117. H V Ravindra, Prathik Jain S, Ugrasen G and G V Naveen Prakash, “Estimation and Comparison of Electrode Wear and AE Parameters of Titanium material in Wire Electric Discharge Machining using ANN”, International Conference on GREEN TRENDS IN MECHANICAL ENGINEERING SCIENCES (GTMES – 2018), October 03-05, 2018. Malnad College of Engineering, Hassan, karnataka and Johrat Engineering College, Johrat, Assam.
  118. H V Ravindra and Ugrasen G, “Estimation and Comparison of Welding Responses using Multiple Regression Analysis and Group Method Data Handling Technique of Al6061 and Al7075 Material in FSW”, 7<sup>th</sup> International & 28<sup>th</sup> All India Manufacturing Technology,

- Design and Research (AIMTDR-2018), December, 13-15, 2018, Department of Manufacturing Engineering, Mechanical Engineering and Production Technology, College of Engineering Guindy, Anna University, Chennai.
119. H V Ravindra, Ugrasen G and Rakesh D, “Prediction of Machining Responses in Wire EDM on Stainless Steel-316”, 7<sup>th</sup> International & 28<sup>th</sup> All India Manufacturing Technology, Design and Research (AIMTDR-2018), December, 13-15, 2018, Department of Manufacturing Engineering, Mechanical Engineering and Production Technology, College of Engineering Guindy, Anna University, Chennai.
  120. H V Ravindra, Gurupavan H R and Devegowda T M, “Prediction and Comparison of Vision Parameter of Surface Roughness in WEDM of Al-6%Si<sub>3</sub>N<sub>4</sub> and Al-10%Si<sub>3</sub>N<sub>4</sub> using ANN”, 7<sup>th</sup> International & 28<sup>th</sup> All India Manufacturing Technology, Design and Research (AIMTDR-2018), December, 13-15, 2018, Department of Manufacturing Engineering, Mechanical Engineering and Production Technology, College of Engineering Guindy, Anna University, Chennai.
  121. H.V. Ravindra, Gurupavan H R, T.M. Devegowda, “Estimation of Machine Vision parameters of Surface roughness and Wire wear in Wire EDM of Al-Si<sub>3</sub>N<sub>4</sub> Metal Matrix Composite Material using Artificial Neural Network” ASME International Mechanical Engineering Congress and exposition (IMECE-2018), David L. Lawrence Convention Center, Pittsburgh, PA, USA Nov.09-15, 2018.
  122. Rudreshi Addamani, H V Ravindra, Ugrasen G, “Estimation and Comparison of Welding Performances using MRA and GMDH in P- GMAW for SS 316L Material ”, Proceedings of the ASME -2018, International Mechanical Engineering Congress & Exposition IMECE-2018, at Pittsburgh, USA, November 9th-15th, 2018.
  123. Prathik Jain S, H V Ravindra, G V Naveen Prakash and Ugrasen G, “Prediction of Machining Characteristic and Machining Performance while Machining P-20 tool steel Material in Wire Cut Electric Discharge Machine using Artificial Neural Network”, International Conference on Advanced Fundamental Materials for Energy, Environment and Health Care (AFMEEHC-2019), 18 –20 March 2019, Center for Materials Science & Technology (CMST), Vijnana Bhavan Manasagangothri, Mysuru, India -570 006.
  124. Rudreshi Addamani, H V Ravindra, Girish A, “Optimization of P-GMAW welding parameters using Taguchi technique for SS 316L material”, International conference on Resent Innovations in Science, Engineering & Management (RISEM-2019) at RR institute of technology, Bangalore on 10th and 11th may 2019.
  125. RudreshiAddamani, H V Ravindra, “Weld bead performance assessment of P-GMAW using acoustic emission (AE) signals through NDT methods for ms ASTM A 106 B grade material”, Proceedings of the ASME -2019, International Mechanical Engineering Congress & Exposition IMECE-2019, Salt Lake city, Utah, USA, November 8th-14th, 2019.

126. Ugrasen G, H V Ravindra, Prathik Jain S, Umeshgowda B M, Shankarnarayan Maskibail Suresh “Estimation and Comparison of Welding Responses using MRA, GMDH and ANN Technique of Al6061 and Al7075 Material in FSW”, Proceedings of the ASME 2019, International Mechanical Engineering Congress and Exposition (IMECE-2019), November 11-14, 2019, Salt Lake City, UT, USA.
127. Gurupavan H R and H.V. Ravindra, “Performance Monitoring of Electrode Wear and Surface Roughness in WEDM of Al-10%Si3N4 using Machine Vision System” ASME International Mechanical Engineering Congress and exposition (IMECE-2019), Calvin L. Rampton Salt Palace Convention Center, Salt Lake City, Utah, USA, Nov. 11th-14th, 2019.
128. H V Ravindra, N L Murali Krishna, Rakshith Gowda D S, “Investigation on the effect of drilling parameters on quality of hole in Epoxy resin with and without carbon fiber reinforced with 6% and 10% Si3N4 using FEA” ASME International Mechanical Engineering Congress and exposition (IMECE-2019), Calvin L. Rampton Salt Palace Convention Center, Salt Lake City, Utah, USA, Nov. 11th-14th, 2019.
129. Gurupavan H R, H.V. Ravindra, T.M. Devegowda, “Prediction of Vision Parameters of Surface roughness and Wire Wear in Wire-EDM of Al-10 wt.% Si3N4 MMC Material using ANN” International Conference on Ultrasonics and Materials Science for Advanced Technology (ICUMSAT-2019), VBS Purvanchal University, Jaunpur, Uttar Pradesh, Nov. 16th-18th, 2019.
130. RudreshiAddamani, H V Ravindra, “Optimization of P-GMAW Welding output parameters using Taguchi Technique for SS 304 material”, International Conference on Ultrasonics and Materials Science for Advanced Technology, ICUMSAT-2019, VBSPU, Jaunpur, 16-18, November, 2019.
131. RudreshiAddamani, H V Ravindra, Dr. Gayathridevi S K, “Evaluation of Weld Bead Mechanical Properties Using Image Processing during Destructive Testing by Multivision Technique”, International Conference on Recent Trends in Electrical, Electronics and Computer Science Engineering, ICEESC-2020, Uma Nath Singh Institute of Engineering & Technology, V B S Purvanchal University, Jaunpur, 10th and 11th January, 2020.
132. RudreshiAddamani, H V Ravindra, Ugrasen G, “Estimation and Comparison of welding Performances in Pulsed Gas Metal Arc Welding (P-GMAW) using MRA and GMDH for SS 304 material” Global Conference on Advanced Smart and Sustainable Technologies in Engineering, MITE Campus, Moodabidri, Mangalore, 30 & 31 January 2020.
133. RudreshiAddamani, H V Ravindra, Dr.Gayathridevi S K, “Estimation and comparison of welding performances for ASTM A 106 material in P-GMAW using GMDH and ANN”, Advances in Mechanical Engineering Sciences, ICAMES-2K20, 28th and 29th Feb 2020, at PESCE, Mandya.

134. G Ugrasen, Prathik Jain S and H V Ravindra “Estimation and Comparison of Electrode Wear and AE Parameters of Titanium and Stavax Materials in Wire Electric Discharge Machining using ANN”, 2nd International Conference on Advances in Mechanical Engineering Sciences (ICAMES - 2K20) 28th - 29th February 2020, Department of Mechanical Engineering Sciences), P.E.S. College of Engineering, Mandya.
135. Gurupavan H R, H.V. Ravindra, T.M. Devegowda, “Monitoring the Performance of Electrode Status and Surface Roughness in WEDM of Al-8% Si<sub>3</sub>N<sub>4</sub> using Vision System” International Conference on Advances in Mechanical Engineering Sciences (ICAMES-2K20), PESCE, Mandya, Feb. 28th-29th, 2020.

#### **NATIONAL CONFERENCES:**

1. H. V. Ravindra, Y. G. Srinivasa and R.Krishnamurthy, “Tool wear monitoring’, National Seminar on newer manufacturing technique for improved productivity”, NIE, Mysore, 20-21 June 1991, pp. 124- 131.
2. H. V. Ravindra, Y. G. Srinivasa and R.Krishnamurthy, “Tool wear monitoring in turning with AE signals”, 15<sup>th</sup> AIMTDR Conference, PSG Tech., Coimbatore, 3-5 Dec., 1992, pp. 623-628.
3. H. V. Ravindra, S. Ashok Kumar and Y. G. Srinivasa, “On-line estimation of tool wear in turning using residual force and vibration signals”, 15<sup>th</sup> AIMTDR Conference, PSG. Tech., Coimbatore, 3-5 Dec., 1992, pp. 601-607.
4. H. V. Ravindra, Y. G. Srinivasa and R. Krishnamurthy, “On-line tool wear monitoring in turning through Acoustic Emission”, 10<sup>th</sup> National conference on Industrial Tribology, Indian Institute of Petroleum, Dehradun, 25-26 March 1993, pp.107-112.
5. H. V. Ravindra, Y. G. Srinivasa and R. Krishnamurthy, “Comparative study of models for tool wear estimation in turning”, 9<sup>th</sup> ISME Conference, University of Roorkee, Roorkee, 10-11 Nov., 1994.
6. H. V. Ravindra, Y. G. Srinivasa and R.Krishnamurthy, “Tool wear estimation using Group Method of Data Handling (GMDH) in turning”, 16<sup>th</sup> AIMTDR Conference, CMTI, Bangalore, 8-10, Dec. 1994, pp. 515
7. H. V. Ravindra, Y. G. Srinivasa and R. Krishnamurthy, “Patter recognition analysis for tool condition monitoring using Acoustic Emission (AE) in turning”, 16<sup>th</sup> AIMTDR Conference, CMTI, Bangalore, 8-10 Dec., 1994, pp. 522.
8. H. V. Ravindra and Y. G. Srinivasa, “Pattern recognition technique for tool failure monitoring using cutting force in turning”, 17<sup>th</sup> AIMTDR Conference, REC, Warangal, 9-11, Jan., 1997.

9. H. V. Ravindra, "Multi Sensory approaches to tool wear Monitoring in drilling", 19<sup>th</sup> AIMTDR Conference, IIT Madras, Chennai, 14-16, December, 2000.
10. H. V. Ravindra and M. S. Jagadish, "Finite Element Analysis of a Lathe for Defective Spindle Bearing and Unbalance Forces", National Conference on Recent Developments in Mechanical Engineering, Thapar Inst. of Engg. and Technology, Patiala, 31<sup>st</sup> Oct.–01<sup>st</sup> Nov. 2003, pp. 115–119.
11. H. V. Ravindra and B. R. Shriharsha, "Tool Wear Estimation in Drilling using Group Method of Data Handling", National Conference on Recent Developments in Mechanical Engineering, Thapar Inst. of Engg. and Technology, Patiala, 31<sup>st</sup> Oct.–01<sup>st</sup> Nov. 2003.
12. H. V. Ravindra and M. S. Jagadish, "Monitoring the machine elements in lathe using vibration signals", 11<sup>th</sup> National Conference on Machines and Mechanisms, IIT Delhi, 18-19, Dec.2003, pp.387–394.
13. H. V. Ravindra and B. R. Shriharsha, "Comparative Study of Tool Wear Estimation in Drilling", 11<sup>th</sup> National Conference on Machines and Mechanisms, IIT Delhi, 18-19, Dec. 2003.
14. H. V. Ravindra, M. S. Jagadish and G. V. Naveen Prakash, "Finite element modeling and analysis of machine tools", 3<sup>rd</sup> National Conference on Precision Engineering, CMTI, Bangalore, 19-20, Dec.2003, pp. 127–134.
15. H. V. Ravindra and L. J. Sudev, "Tool Failure Detection in Drilling by Pattern Recognition Technique", Conference on Advances in Materials and Manufacturing Technology, IITM, Chennai, 2 April 2004, pp. 23-24.
16. H. V. Ravindra, V. R. Devdath and Haridasa Nayak, "Tool Failure Monitoring by Artificial Neural Network (ANN) in Turning (Metal Cutting)", 1<sup>st</sup> National Conference on Development & Challenges in Manufacturing Engineering, MIT, Manipal, 18-20 March 2004, pp. 485-490.
17. H. V. Ravindra, Naveen Prakash G. V. and Sathish Kumar K. M., "Monitoring the Gear Box and Spindle bearings in Lathe using Finite Element Analysis", 21<sup>st</sup> AIMTDR Conference VIT, Vellore, Dec. 2005. pp. 659–664.
18. H. V. Ravindra and L. J. Sudev, "Tool Failure Detection by Artificial Neural Network in Drilling", 21<sup>st</sup> AIMTDR Conference, VIT, Vellore, Dec. 2005, pp. 997–998.
19. H. V. Ravindra, Thanmay J. S. and Sathish Kumar K. M., "Vibration analysis of Lathe Structure due to Gear Defect using FEM", National Conference on Recent Advances in Manufacturing Technologies, National Institute of Technology, Rourkela. 22-23 Oct 2005, pp. 380-387.
20. H. V. Ravindra and Naveen Prakash G. V., "Study of Thermal Aspect on Elements of Drilling Machine Tool using Finite Element Method", National Conference on Recent

- Advances in Mechanical Engineering, P.A. College of Engg., 1-3 Dec. 2005 Mangalore, pp.24.
21. H. V. Ravindra and Naveen Prakash G.V., “Study of Drilling Machine Tool Vibration due to Gear Defect Using FEM”, National Conference on Recent trends in Mechanical Engineering, Sri Jayachamarajendra College of Engineering, Mysore, 17 – 18 Nov, 2006, pp. 32.
  22. H. V. Ravindra, Nixon Kuruvila and Govinda Raju Nayak H. C., “Optimization of Process Parameters of Wire Cut EDM Based on Design of Experiments using Taguchi’s Technique”, National Conference on RADE 2007, Manipal Institute of Technology, Mainpal, 22 - 24 February 2007, pp. 108-111.
  23. H. V. Ravindra and Nixon Kuruvila, “Study of Electrodes used in wire cut EDM”, National Conference on Materials for Critical application by Institution of Engineers at Government Engineering College, Thrissur, Kerala, 3<sup>rd</sup> Nov. 2007, p. 58.
  24. H.V. Ravindra, Naveen Prakash G. V. and Sathish Kumar K. M., “Study of Thermal Aspect of Bearings in Machine Tools Using Finite Element Method”, National Conference on Emerging Trends in Mechanical Engineering ETIME-2008, BMS College of Engineering, Bangalore 28–29 August 2008, pp. 65.
  25. H. V. Ravindra and Nixon Kuruvila, “Optimization and Influence of Control Factors of Wire Cut EDM Based On Design of Experiments”, National Conference on Emerging Trends in Mechanical Engineering ETIME-2008, BMS College of Engineering, Bangalore 28 – 29 August 2008, p.67.
  26. H.V. Ravindra, Naveen Prakash G. V. and Sathish Kumar K. M., “Experimental and Finite Element Analysis of Heat Distribution in Machine Tools”, National Conference on Recent Developments in Mechanical Engineering RDME-2009, Sree Chitra Thirunal College of Engineering, Thiruvananthapuram, Kerala, 5-6 March 2009, pp.1-6.
  27. H.V.Ravindra, S.L.Ajit Prasad and Prakash U., “Machinability of Aluminium Based Metal Matrix Composite A Retrospective and Literature Review" , APT-09 (Advanced Processing Technologies-09 Sree Chitra Thirunal College of Engineering, Thiruvananthapuram, Kerala, 12-13 March 2009.
  28. H. V. Ravindra and Nixon Kuruvila, “Parametric optimization & Influence of control factors on Hot Die Steel in WEDM process”, National Conference on Recent trends in Manufacturing Technology (RTMT2009), Anna University, Chennai, 6-7 March 2009, p.12.
  29. H. V. Ravindra, Y. D. Chetan and B. M. Umesh Gowda, “Automatic inspection using blob analysis technique by machine vision”, 1<sup>st</sup> National Conference on Image Processing, Pattern Recognition and Computer Vision, P. E. S. College of Engg., Mandya, 24 -25 Aug. 2009, pp. 34.

30. H. V. Ravindra, Ugrasen G and B. M. Umesh Gowda, “Automated inspection using image processing techniques by machine vision”, 5<sup>th</sup> National Conference on Optimization Techniques in Engineering Sciences and Technologies (OPTTEST 2010), Bannari Amman Institute of Technology, Sathyamangalam, Tamil Nadu, 25-26 March 2010, pp. 6.
31. H. V. Ravindra, Y. T. Krishnegowda and Vikram C. K., “Numerical simulation of unsteady flow past square cylinder”, National Conference on Advances in Mechanical Engineering, Manipal Institute of Technology, Manipal, 3–5 Jan. 2011, p.24.
32. H V Ravindra, Ugrasen G, Mukesh K G, Darshan B M, Sachin Sreenath, Shridhar B Koladur, “Process Parametric Optimization in Wire EDM of Al2024 based Hybrid MMC using Taguchi’s Technique”, National Conference on Role of Mechanical Engineering and Computational Science for a sustainable Future, 25-26, September, 2015, Dayananda Sagar College of Engineering, Bangalore.
33. Rudreshi Addamani, H V Ravindra, Darshan C S, “ Optimization of P-GMAW welding parameters using Taguchi technique” National Conference on Advanced Material Design – (NCAMD-2016) held during 29th -30th July 2016 at BMSIT, Bangalore.
34. Rudreshi Addamani, H V Ravindra, Darshan C S, “Optimization of P-GMAW parameters for ASTM A 106 pipes using Taguchi technique” National Conference on Emerging Trends in Mechanical Engineering & Technology-2016 (ETMET-2016) held during 19th -20th August 2016 at Jyothy Institute Of Technology, Bangalore.