




# P.E.S. College of Engineering, Mandya - 571401

(An Autonomous Institution, affiliated to VTU, Belagavi)

## Faculty Profile

### General

Name	<b>Dr. H V RAVINDRA</b>	
Designation,	<i>Professor &amp; Principal</i>	
Department & Affiliated Institution	<i>Department of Mechanical Engineering, P.E.S College of Engineering, Mandya – 571 401</i>	
Research Area	<i>Condition monitoring, NTM, Welding, Composites, etc.</i>	
Contact Number	+91 9986025372	
Email ID	<a href="mailto:mailhoвера@gmail.com">mailhoвера@gmail.com</a>	

### Academic Profile

#### Educational Qualifications

Degree	College	University	Year of Passing	% ge	Class
Ph. D	IIT Madras	IIT Madras	1993	-	-
M.Tech	IIT Madras	IIT Madras	1987	8.78CGPA	FCD
B.E.	P.E.S. College of Engineering	University of Mysore	1983	83%	FCD

#### Professional Experience

Organization and Department	Designation	Period	Total Experience
P.E.S. College of Engineering, Mandya, Dept. of Mechanical Engg.	<i>Lecturer</i>	1984 - 1990	6 Years
	<i>Senior Lecturer</i>	1990-1994	4 Years
	<i>Asst Prof Selection Grade Lecturer</i>	1994-2001	7 Years
	<i>Professor CAS</i>	2001-2004	3 Years
	<i>Professor &amp; Head</i>	2008 – 2012	4 Years
	<i>Professor &amp; Dean</i>	2014-2016	2 Years
	<i>Professor &amp; Viceprincipal</i>	2016-2018	2 Years
	<i>Professor &amp; Principal</i>	2018 to Till date	---

#### Reports on Academic and Research Activities

##### Academic Activities

Teaching Records (Details of courses taught)	<b>Undergraduate:</b> Mechanical Measurements and Metrology, CAD/CAM, etc.. <b>Post Graduate (M. Tech):</b> CIM, CBM, CCMS, etc..
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##### Research Guidance (Candidates Awarded / Pursuing Ph.D / M.Sc., Engg./ M.Phil)

Degree	Ph. D.	M.Sc., Engg.
Awarded	12	Nil
Pursuing	Nil	Nil

##### Sponsored Research Projects (List of Projects taken up /completed and funds receiver & funding sources)

Project Funded by	Grants Sanctioned	Grants Received
DRDO, AICTE, UGC, DSTVTU, NRB etc.	1.5 crores	1.5 crores

##### Research Publications in Refereed Journals and Conferences/Symposia

Number of Publications in	National	International
Journals	01	60
Conferences/Symposia	34	136

##### Other Important Responsibilities Held in the College

1. Principal	4. Head of the Department
2. Vice-Principal	5. Dean Academics and R&D
3. Co-ordinator, Teqip	6. Administrative Officer, P.E.T. Sports Complex

# **LIST OF PUBLICATIONS**

## **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. JI. 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 Management, 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.
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