

Prof. Pravin Singru

Chamber. No. A 313-6
BITS-Pilani K.K.Birla Goa Campus
NH17B
Zuarinagar, Goa - 403726 INDIA

Phone: +918322580338
Mobile: +919763572624

email: pmsingru@goa.bits-pilani.ac.in
URL: <http://universe.bits-pilani.ac.in/goa/pmsingru/profile>

Born: March 17, 1969—Nagpur, India
Nationality: Indian

Current position

Professor, Mechanical Engineering since July 2018

Areas of specialization

*Dynamics * Vibration * Acoustics

Appointments held

1991-2005	Rajeev Gandhi College of Engineering, Research and Technology, Chandrapur, India
Nov,05-Jan,13	Assistant Professor, BITS-Pilani K.K.Birla Goa Campus, Zuarinagar, Goa, India
Feb,13-June,18	Associate Professor, BITS-Pilani K.K.Birla Goa Campus, Zuarinagar, Goa, India
July,18-tilldate	Professor, BITS-Pilani K.K.Birla Goa Campus, Zuarinagar, Goa, India

Education

1989	B.E. in Mechanical Engineering,Visvesvaraya National Institute of Technology, Nagpur
1991	M.TECH in Mechanical Engineering, I.I.T.,Kharagpur
2005	PH.D. in Mechanical Engineering,Visvesvaraya National Institute of Technology, Nagpur

Thesis

1. Bachelor of Engineering in Mechanical Engineering , ” Qualitative Analysis of Manual Handling Operations of a Winding Machine and Suggestion of a Robot as an Improved Alternative”,1989.
2. Master of Technology in Mechanical Engineering ” Optimal control of Hydro-Pneumatic Suspension System”,1991.
3. Ph.D. ”Dynamic and Vibration Response of Pulleys of a Belt Drive”, 2005.

Research Interests:

1. Dynamics and Vibrations
2. Musical Acoustics
3. Optimization using Genetic Algorithms
4. Solid Mechanics
5. Mechanisms and Robotics

Patents

1. Singru Pravin Madanrao, Gupta Appurv, Kalola Meet Govindbhai, Bana Ankit, "Human powered multi-purpose machine", Application No. :201611017379, Application Filing Date: 18 May 2016.
2. P.M. Singru , S. Deopujari, R. Shetty, B. Mistry, "An Endotracheal Tube For Measuring Endotracheal Pressure" Application No .201711011547, Application Filing Date: March 30, 2017
3. Singru Pravin Madanrao, Tejas Zodge, "An Apparatus for Turning a Page of a Book" , Application No. 01911012057, Application Filing Date: 27 March 2019

Research Grants

1. Grant of Rs. 30 Lakhs in terms of software to establish MEMS DESIGN CENTER at BITS Pilani, K.K.Birla, Goa Campus from NPMASS (2011-2014)
2. Grant of Rs.80 lakhs under DST FIST for upgrading research infrastructure of Mechanical Department, out of Rs. 24 lakhs for Machine Dynamics Laboratory (2011-16).
3. Grant of \$25,000 for Project titled "RO-RO Mission Systems Project for C-130 Aircraft (University Research Agreement Phase 2 Research Grant) funded by Lockheed Martin Corporation, USA (2015-2016).
4. Grant of Rs. 36.96 Lakhs from DST -SERB the project titled, "An acoustic study, characterization and standardization of the Sarasvati Veena ".Co-PI: Prof. Radhika Vathsan, Physics (2017-2020).

Ph.D. Thesis Supervision

1. K.V.R.B.Prasad,"Genetic algorithms for optimum design of turbo-alternator", January 2012.
2. Raghavendra D. Naik,"Stability, Resonance and Bifurcation in Vehicle Suspension System", October 2014.
3. Kiran D. Mali," Vibration Analysis of Perforated Plates" January 2016.
4. D.K.Mohanty," Effect of Fouling on the Performance of "July 2012.
5. Varinder Singh," Development of Models for Analysis and Design of Integrated Manufacturing System", October, 2013.

6. Amit Rajput," Preparation and characterization of polybenzoxazine-ferrite based magnetic nanocomposite",October, 2013 (co-supervisor)
7. Vivek Chandran," Gyro-less Attitude and Attitude-Rate Estimation For A Satellite Using Non Linear Models and Star Vector Observations" (Co- supervisor: Dr. N.S. Manjrekar, EEE, In Progress)
8. Chandrashekhar Chauhan," An Acoustic study, Characterization and Standardization of Saraswati Veena." (Co- supervisor: Prof. Radhika Vathsan,Physics, In Progress)

Peer Reviewed Journal Papers

1. P.M. Singru and J.P. Modak , " Computer Simulation of Dynamic and Vibration Response of Arm of a Belt Drive Pulley" Journal of Sound and Vibration. Vol.242, No. 2, April 2001,pp 277-293.(Impact Factor 1.857)
2. P.M. Singru and J.P. Modak," Dynamics Of Arm Of A Flat Belt Drive Pulley With Explanation Of Belt Flutter" Journal of Sound and Vibration. Vol.279, No.3-5, January 2005, pp 1037-1070. (Impact Factor 1.857)
3. M.M. Raghuvanshi, P.M. Singru, U. Kale, O.G.Kakde , " Synthesis of Modified Simulated Binary Crossover with Lognormal Distribution", Complexity International, Volume 12, Paper ID: msido1,2008, URL: <http://www.complexity.org.au/vol12/msido1/>
4. Raghavendra D. Naik, Pravin M. Singru, , "Establishing the Limiting Conditions of Operation of Magnetorheological Fluid Dampers in Vehicle Suspension System", Mechanics Research Communication Volume 36, Issue 8, December 2009, Pages 957-962. (Impact Factor 1.4) (SCI and scopus)(citations=11)
5. R.D. Naik and P. M. Singru, "Resonance stability and chaotic vibration of a quarter-car vehicle model with time delay feedback", Communications in nonlinear science and numerical simulation, Volume 16, Issue 8, August 2011, Pages 3397-3410. (Impact Factor 2.834) (citations=29)(Scopus)
6. Dillip K. Mohanty and Pravin M. Singru," Use of C-Factor for monitoring of fouling in a shell and tube heat exchanger", Energy. Volume 36, Issue 5, May 2011, Pages 2899-2904 (Impact factor = 4.292), (citations =20)(SCI and scopus)
7. Kiran D. Mali and Pravin M. Singru "Determination of The Fundamental Frequency Of Perforated Plate With Rectangular Perforation Pattern of Circular Holes by Negative Mass Approach for the Perforation"International journal of Advanced Materials Manufacturing and Characterization. ,Vol 1, issue 1, March 2012,PP 105-109. (ISSN 2277-3886)
8. Varinder Singh and Pravin M. Singru "Analysis of Restructuring in a Manufacturing system using Graph Theoretic Model", Journal of Manufacturing Technology Management, Vol. 24 Iss: 4, pp.615 - 636, 2013.(Scopus, H-Index=45)
9. Rajput A., Ghosh N.N. and Singru P.M. "Synthesis, characterization and properties of flexible magnetic nanocomposites of CoFe₂O₄- polybenzoxazine- LLDPE ", Journal of Applied Polymer Science, Volume 128, Issue 6, 15 June 2013, Pages: 3726-3733 . (Impact factor = 1.6) (SCI and scopus)(Citations =6)
10. Dillip Kumar Mohanty and P M Singru" Numerical method for heat transfer and fouling analysis of a shell and tube heat exchanger using statistical analysis", Korean J. Chem. Eng.,Springer, 29(9), 1144-1150, 2012. (Impact factor = 1.408) (SCI and scopus)(Citations =3)

11. Mali K.D. and Singru P.M. "An analytical model to determine fundamental frequency of free vibration of perforated plate by using unit step functions to express non homogeneity", *Journal of Vibro-Engineering*, Vol 14, Issue 3, pp 1292-1296, September 2012. (Impact factor = 0.384) (SCI and scopus) (Citations =7)
12. R.D. Naik and P. M. Singru "Stability and Hopf bifurcation of a Nonlinear oscillator with multiple time-delays", *Chaos, Solitons and Fractals* Volume 45, Issue 11, November 2012, Pages 1387-1396. (Impact factor = 1.611) (SCI and scopus) (Citations =4)
13. Kiran D. Mali, Pravin M. Singru " to Determine Fundamental Frequency of Free Vibration of Perforated Plate by Using Greatest Integer Functions to Express Non Homogeneity" *Advanced Materials Research* Vols. 622-623 (2013) pp 600-604, (2013) Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMR.622-623.600. (SCI Indexed)
14. Rajput A., Ghosh N.N. and Singru P.M." Preparation of flexible magnetic nanocomposites of 3 linear low-density polyethylene-polybenzoxazine-magnetic nanoparticles 4 and their mechanical and magnetic properties", *Journal of Nanoscience Letters*, 2013, 3:26.
15. Kiran Mali and Pravin Singru "Determination of the fundamental frequency of perforated rectangular plates: concentrated negative mass approach for the perforation," *Advances in Acoustics and Vibration*, Volume 2013 (2013), Article ID 972409, 6 pages (ESCI Indexed)
16. Kiran Mali and Pravin Singru "Determination of the fundamental frequency of perforated rectangular plates: concentrated negative mass approach for the perforation," *Advances in Acoustics and Vibration*, Volume 2013 (2013), Article ID 972409, 6 pages (ESCI Indexed)
17. Garg, A., Tai, K., Vijayaraghavan, V. and Singru, P.M. "Mathematical Modelling of Burr Height of the Drilling Process Using a Statistical Based Multi-Gene Genetic Programming Approach", *International Journal of Advanced Manufacturing Technology* July 2014, Volume 73, Issue 1-4, pp 113-126. (Impact factor = 1.779)(citations =21) (SCI and scopus)
18. Kiran Mali and Pravin Singru "Determination of modal constant for fundamental frequency of perforated plate by Rayleigh's method using experimental values of natural frequency", *International Journal of Acoustics and Vibration*, Vol. 20, No. 3, 2015 (pp. 177-184), 2015. (Impact factor = 0.284)(ESCI) (Citations =2)
19. Raghavendra D. Naik and Pravin M. Singru," Stability of a Nonlinear Quarter-Car System with Multiple time-Delays", *International Journal of Acoustics and Vibration*, Vol. 20, No. 2, 2015, pp 90-94 (Impact factor = 0.284) (ESCI)
20. Garg, A., Vijayaraghavan, V. and Singru, P.M" An Integrated Computational Approach for determining the Elastic Properties of Boron Nitride Nanotubes", *International Journal of Mechanics and Materials in Design*, March 2015, Volume 11, Issue 1, pp 1-14 (doi: 10.1007/s10999-014-9262-1) (Impact Factor= 1.926) (citations=19) (SCI and scopus)
21. Dillip Kumar Mohanty and P M Singru, " Fouling analysis of a shell and tube heat exchanger using local linear wavelet neural network", *International Journal of Heat and Mass Transfer*, Elsevier. Volume 77, October 2014, Pages 946-955 (Impact Factor= 2.857)(Citation=8)(Scopus)
22. V Vijayaraghavan, A. Garg, C.H Wong, K. Tai, Pravin M. Singru" Investigation of Mechanical Strength of 2-D Nanoscale Structures using a Molecular dynamics based computational intelligence approach", *International Journal of Modern Physics Letters B*. 29, pp (1450242-1-18) (2015) [18 pages] DOI: 10.1142/S0217979214502427 (Impact factor = 0.37)

23. Venkatesh Vijayaraghavan, Akhil Garg, Chee How Wong, Kang Tai, K Sumithra, Liang Gao, Pravin M Singru, "Combined CI-MD approach in formulation of engineering moduli of single layer graphene sheet", *Simulation Modelling Practice and Theory*, Volume 48, November 2014, Pages 93–111. (Impact factor = 1.482)(citations=19) (SCI and scopus)
24. A Garg, V Vijayaraghavan, C H Wong, K Tai, K Sumithra, K Sumithra, Pravin M. Singru, Leehter Yao," Application of artificial intelligence technique for modeling elastic properties of 2-D nanoscale material", *Molecular simulation*", Volume 41, Issue 14,pp 1143-1152, 2015 (doi:10.1080/08927022.2014.951351) Taylor and Francis . (Impact factor = 1.678).(Scopus)
25. Kiran Mali and Pravin Singru, "On The Use of Greatest Integer Function to Express Material Property Variation in Free Vibration Problem of Simply Supported Square Plates with Square Array of Circular Perforations" *Procedia Material Science*, 6 (2014) 409 – 416.
26. V. Vijayaraghavan, A. Garg, C. H. Wong, K. Tai, K. Pravin M. Singru, and L. Gao, "On the Study of Machining Characteristics of 2-D Nanoscale Material", *Nanoscience Nanotechnology Letters*. 6, 1079-1086 (2014) (IF=1.44)
27. A Garg, V Vijayaraghavan, K Tai, Pravin M. Singru, L. Gao and K.S. Sangwan, "An ensemble evolutionary approach in evaluation of surface finish reduction of vibratory finishing process", *Engineering Computations*, Vol. 32 and Issue 5, pp. 1214 – 1229, 2015 (IF=1.206)
28. P. Kousik, Pravin M Singru and Narayan Manjrekar," Comparing PID and H-∞ Controllers on a 2-DoF Nonlinear Quarter Car Suspension System" *Journal of Vibro-Engineering*, Vol 8, pp 3977-3990. (Impact factor = 0.384) (SCI and scopus)
29. Vijayaraghavan, V., Garg, A., Wong, C.H., Tai, K., Singru, M. Pravin, Gao L and Sangwan S. K. "A Molecular Dynamics Based Artificial Intelligence Approach for Characterizing Thermal Transport in Nanoscale Material", *Thermochimica Acta*. Vol. 594, 20 October 2014, pp. 39-49. (Impact factor = 1.938) (SCI and scopus)
30. A. Garg , V. Vijayaraghavan , Jasmine Siu Lee Lam , Pravin M Singru, Liang Gao, "A Molecular Simulation Based Computational Intelligence Study of a 2 Nano-machining Process with Implications on its Environmental 3 Performance", *Swarm and Evolutionary Computation*. Volume 21, April 2015, Pages 54–63. (Impact Factor =2.963)
31. Nikilesh Krishnakumar, Vishal Jain , Pravin M. Singru, "Development of predictive model for vibro-acoustic condition monitoring of lathe", *Journal of Vibroengineering*, Vol. 17, Issue 1, 2015, p. 229-242(Impact factor = 0.384) (SCI and scopus)
32. Akhi Garg, V Vijayaraghavan, Kang Tai, Pravin M Singru, Vishal jain, Nikilesh Kumar,"Model Development based on Evolutionary framework for condition monitoring of a lathe machine", *Measurement* , Vol 95 (2015), pp 95-110 (Impact Factor 1.742) (ESCI and scopus)
33. Pravin Singru, et al., "Development of an Experimental Model for a Magnetorheological Damper Using Artificial Neural Networks (Levenberg-Marquardt Algorithm)," *Advances in Acoustics and Vibration*, vol. 2016, Article ID 7027259, 6 pages, 2016. doi:10.1155/2016/7027259.
34. Akshay Sundar, Hancel P. V., Pravin Singru, Radhika Vathsan Acoustic analysis and characterization of Indian musical instrument: Ghumot. *Journal of Measurements in Engineering*, Vol. 4, Issue 3, 2016, p. 122-132.(ESCI)
35. Pravin Singru, Akshay Sundar, Hancel P. V.,Radhika Vathsan , "Study of Sarasvati Veena – a South Indian musical instrument using its vibro-acoustic signatures", *Journal of Vibro Engineering*, Vol. 18, Issue 5, August 2016, pp 3362-3368. (Impact factor = 0.384) (SCI and scopus)

36. Singru Pravin, Raizada Ayush, Krishnakumar Vishnuvardhan, Garg Akhil, Tai K., Raj Varun Modeling of a magneto rheological (MR) damper using genetic programming. *Journal of Vibroengineering*, Vol. 19, Issue 5, 2017, p. 3169-3177. (Impact factor = 0.384) (SCI and scopus)
37. Pravin Singru, Vishnuvardhan Krishnakumar, Dwarkesh Natarajan, Ayush Raizada, "Bearing failure prediction using Wigner-Ville distribution, modified Poincare mapping and fast Fourier transform", *Journal of Vibro-engineering*. FEB 2018, VOL. 20, ISSUE 1, pp. 127-137.(SCI and scopus)
38. K D Mali and P M Singru," Study on the Effect of the Impact Location and the Type of Hammer Tip on the Frequency Response Function (FRF) in Experimental Modal Analysis of Rectangular Plates" , Study on the Effect of the Impact Location and the Type of Hammer Tip on the Frequency Response Function (FRF) in Experimental Modal Analysis of Rectangular Plates", *IOP Conf. Series: Materials Science and Engineering* 330 (2018) 012102 doi:10.1088/1757-899X/330/1/012102.
39. Varinder Singh, Pravin M. Singru, (2018) "Graph theoretic structural modeling based new measures of complexity for analysis of lean initiatives", *Journal of Manufacturing Technology Management*, Volume 29, Issue 2, pp.329-349 <https://doi.org/10.1108/JMTM-09-2017-0185>.
40. Chandrshekhhar Chavan, P.M. Singru, Radhika Vathsan, "Vibro-acoustic Modeling, Numerical and Experimental Study of the Resonator and its Contribution to the Timbre of Sarasvati Veena, a South Indian Stringed Instrument,"*The Journal of the Acoustical Society of America*, Vol.149, Issue 1. <https://doi.org/10.1121/10.0003356>.
41. Chandrshekhhar Chavan, P.M. Singru, Radhika Vathsan,(2021) "The effect of the extended bridge on the Timbre of the Sarasvati Veena: a numerical and experimental study" *Journal of Measurement in Engineering*, Vol. 9, Issue 1, 2021, p. 23-35. <https://doi.org/10.21595/jme.2020.21712>, (Scopus), Impact Factor 1.877 (2019)

Book Chapters

1. Pravin M. Singru, Vishal Jain, Nikilesh Krishnakumar, A. Garg, K. Tai, and V. Vijayaraghavan, " Gene Expression Programming in Nanotechnology Applications", *Evolutionary Computation Techniques and Applications*, Editors: Ashish M. Gujarathi, B. V. Babu, Apple Academic Press, Feb 2016
2. K .V. R. B. Prasad and P. M. Singru, "Performance Improvement of NSGA-II Algorithm by Modifying Crossover Probability Distribution" , *Evolutionary Computation Techniques and Applications*, Editors: Ashish M. Gujarathi, B. V. Babu, Apple Academic Press, Feb 2016
3. Kiran D. Mali, Pravin M. Singru. An analytical model to determine fundamental frequency of free vibration of perforated plate by using greatest integer functions to express non homogeneity in *Manufacturing Science and Technology III*, Edited by R. Sivakumar, Trans Tech. Publications, Kreuzstrasse 10, 8635 Durnten-Zurich, Switzerland, December, 2012., ISBN-13: 978-3-03785-563-8

Peer Reviewed National Conferences since 2012

1. Kiran D. Mali and Pravin M. Singru, "An Analytical Model to Determine Fundamental Frequency of Free Vibration of Perforated Plate by Using Greatest Integer Functions to Express

- Non Homogeneity”, 3rd International Conference on Manufacturing Science and Technology - ICMST 2012, August 18 - 19, 2012, New Delhi, India
2. Pravin M. Singru and D. Srivastava ”Design and Computational Analysis of MEMS based Direct Methanol Fuel Cell”, COMSOL Conference Bangalore , 3-4, November, 2012
 3. Kiran D. Mali, Parth S. Joshi, Pravin M. Singru, ”Free vibration analysis of simply supported square plates with square perforation pattern of square holes” accepted for 57th ISTAM Congress an International meet to be held in DIAT, Pune on December 17-21-2012.
 4. Kareti V.R.B. Prasad and Pravin M. Singru ”Optimum Design of Turbo-Alternator Using Modified NSGA-II Algorithm” , accepted for presentation and publication in Seventh International Conference on Bio-Inspired Computing: Theories and Application, December 14 - 16, 2012 held at ABV IITM, Gwalior.
 5. Pravin Singru, Ayush Raizada , Vishnuvardhan Krishnakumar, Akhil Garg, “Modeling of a Magneto-Rheological (MR) Damper using Genetic Programming” presented in XII IPRoMM NATIONAL WORKSHOP ON INDUSTRIAL PROBLEMS ON MACHINES and MECHANISMS during December 22-23, 2016 held at VNIT, Nagpur. (Won prize as third best paper)
 6. Chandrshekhar Chavan, P.M. Singru, Radhika Vathsan,”Acoustic analysis of timbre of Sarasvati veena in comparison to simple sonometer”, National Symposium on Acoustics, held at AMU, Aligarh, October 28-30, 2017.

Peer Reviewed International Conference

1. P.M. Singru ,et.al.,2004 International Conference Complex 2004 held on Dec 09-11, 2004 at Craine , Austrelia. Synthesis of Modified Simulated Binary Crossover with Lognormal Distribution.
2. Raghavendra D. Naik, Pravin M. Singru, Nonlinear Dynamics and Chaos Control of Vehicle Suspension System, Topical Problems in Solid Mechanics, BITS-Pilani K K Birla Goa Campus, December 2009, Pages 420-427.
3. K.V.R.B. Prasad and Pravin M. Singru “ Performance of Lognormal Probability Distribution in Crossover Operator of NSGA-II Algorithm” published in “8th International Conference on Simulated Evolution And Learning ” held at IIT-Kanpur, Kanpur from 1st to 4th of December, 2010,SEAL 2010 proceedings, Code: LNCS 6457, pp. 514-522, 2010.
4. Singh, V. and Singru, P.M. (2011), “A New Methodology to Facilitate Restructuring in Manufacturing Systems”, Proc. of the International Conference on Sustainable Manufacturing: Issues, Trends and Practices (ICSM – 2011), BITS, Pilani, India, November 10-12, 2011, pp. 163-169.
5. Raghavendra D. Naik, Pravin M. Singru,” Stability of a Nonlinear 2 Degree-of-Freedom Vehicle System with Multiple Time-delays”, 15th International Conference on Experimental Mechanics Porto, 22-27 July 2012.
6. Kiran D. Mali and Pravin M. Singru ,” Free Vibration Analysis of Perforated Plate by using Unit Step Functions to Express Non homogeneity” , 15th International Conference on Experimental Mechanics Porto, 22-27 July 2012
7. Raghavendra D. Naik, Pravin M. Singru, “Heteroclinic bifurcation of a nonlinear oscillator with multiple time-delays”, International Conference on Automation, Mechatronics and Robotics (ICAMR’2012), August 11-12, 2012 in Phuket (Thailand).

8. Allen Anilkumar and Pravin M Singru, "Seat Design and Control of Passenger Vibrations in a Quarter Car Model Using h_{∞} Controller", 11th International Conference on Recent Advances in Structural Dynamics, 1 – 3 July 2013.
9. R. D. Naik and P. M. Singru, "Formulation of Squeeze Film Damping Forces on Micro Resonator Considering Electrostatic Actuation Effects", International Conference on Emerging Technologies-Micro to Nano 2013 Goa, 113-114.
10. Akash Aishwarya, R. D. Naik and P. M. Singru, "Dynamics of Capacitive Dual Backplate Mems Microphone", International Conference on Perspectives in Nonlinear Dynamics, TIFR-UOH, Hyderabad July 15-18, 2013.
11. P.M. Singru, V. Jain, N. Kumar, S. Habbu, "Development Of Predictive Model Using Machine Learning Algorithm For Vibro-acoustic Condition Monitoring of Lathe", accepted for publication in 14th ASME International Mechanical Engineering Congress and Exposition, to be held on Nov. 14-20, 2014.
12. Ashwin PK.P., R.D. Naik and P.M. Singru, "Formulation of Squeeze Film damping Forces on Micro-Resonator Considering Electrostatic Actuation Effects" International Conference on Emerging Technologies Micro to Nano-2013, held in BITS Pilani Goa campus, 23-24 February 2013, pp 113-114
13. Anish D. Shah, Nishant R. Chokhani, Rohit S. Lad, Kiran D. Mali and Pravin M. Singru "Effect of thermal gradient on free vibration of rectangular plate with thickness varying exponentially in one direction", The 5th Asia and Pacific Young Researchers and Graduates symposium in Current challenges in structural engineering, held in MNIT Jaipur on October 15-16, 2013.
14. P.M. Singru, et.al., "Design Of MEMS Based Piezo-resistive Sensor For Measuring Pressure In Endo-tracheal Tube" ASME's International Mechanical Engineering Congress and Exposition (IMECE) held in Houston, USA, Nov-13-19, 2015.
15. Samarth Mathur, Ayush Raizada, Pravin Singru and Radhika Vathsan, "Experimental acoustic analysis of Sarasvati Veena", paper no. 98, iNACOMM 2015, held at IIT Kanpur on December 16-19, 2015.
16. Pravin Singru, Ayush Raizada and Vishnuvardhan Krishnakumar, "A study of various methods for system identification of continuous systems", paper no. 59, iNACOMM 2015, held at IIT Kanpur on December 16-19, 2015.
17. Pravin Singru, Krishnakuma Vishnuvardhan, Raizada Ayush "Bearing failure prediction using fast fourier transform, wigner-ville distribution and modified Poincare mapping" accepted for publication in 23rd International Congress on Sound and Vibration (ICSV23) held in Athens, Greece, from 10 to 14 July 2016.
18. Singru Pravin, Vathsan Radhika, Sundar Akshay, Hancel PV, "Study of Sarasvati veena- a south indian musical instruments using its vibro-acoustic signatures" accepted for publication in 23rd International Congress on Sound and Vibration (ICSV23) held in Athens, Greece, from 10 to 14 July 2016.
19. Singru Pravin, Vathsan Radhika, Sundar Akshay, Hancel PV, "Vibro-Acoustic study of the Ethnic Indian Musical Instrument Ghumot and determination of number of unique tones", accepted for publication in 23rd International Congress on Sound and Vibration (ICSV23) held in Athens, Greece, from 10 to 14 July 2016.

20. Paavni Shukla, Pravin M Singru and Narayan Manjrekar," A Study of H infinity and H₂ synthesis for Active Vibration Control", accepted for publication in 4th International Conference on Advances in Control and Optimization of Dynamical Systems to be held in NIT Trichy on Feb 1-5, 2016 , published by Science direct
(<http://www.sciencedirect.com/science/article/pii/S2405896316301252>)
21. Deopujari S and P.M. Singru"MEMS-Based Sensor at the Tip of the ET Tube",Society of Critical Care Medicine Congress , San Antonio, Texas, USA,February 25-28, 2018.
22. Himanshu Kishor, Narayan Manjrekar, Pravin Singru,"Design of nonlinear damping assignment controller for semi active suspension systems",25th International Congress on Sound and Vibration (ICSV25) held in Hiroshima, Japan, from 8 to 12 July 2018.
23. Chandrshekhhar Chavan, P.M. Singru, Radhika Vathsan,"Experimental basis of the concept of sruti (microtones) in indian classical music using the sarasvati veena",25th International Congress on Sound and Vibration (ICSV25) held in Hiroshima, Japan, from 8 to 12 July 2018.
24. Aniruddha Nayak and Pravin Singru, "Study of effect of angle of contact and angle of extension of wear plate on maximum stress induced in horizontal pressure vessel." IPRoMM-2020.
25. Aniruddha Nayak and Pravin Singru,"Effect of Number of Stiffening Rings, Their Position and Cross Section on Stress Concentration near Saddle Support in Horizontal Pressure Vessels.". IPRoMM-2020.

Administrative Responsibilities

1. Head of the Department of Mechanical Engineering, BITS-Pilani K.K.Birla Goa Campus.(July 2006 to November 2013)
2. Associate Dean, Practice School, BITS-Pilani K.K.Birla Goa Campus. (January 2014 to May 2015)
3. Faculty In Charge, Placement, BITS-Pilani K.K.Birla Goa Campus. ((January 2014 to January 2015)