

Dr. Subhaschandra Kattimani
Professor
Department of Mechanical Engineering
National Institute of Technology Karnataka-Surathkal
Srinivasanagar PO, Mangalore-575025, Karnataka, India.
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Email: subhaskatti@nitk.edu.in



❖ *AREA OF RESEARCH*

Smart Composite Structures, Magneto-Electro-Elastic Structures, Dynamics and Control of Composite Structures, Sandwich Structures, Active constrained layer damping.

❖ *ACADEMIC RECORD*

- **Doctoral Degree** : **Ph.D.**
Institute/ University : Indian Institute of Technology Kharagpur, Kharagpur, India.
Thesis Title : Active Control of Geometrically Nonlinear Vibrations of Magneto-Electro-Elastic Plates and Shells
Year of Completion : 17th April 2015
Guide/ Mentor : Prof. Manas Chandra Ray
- **Post Graduation** : **M.E. (Mechanical Engineering)**
Specialization : Machine Design
Institute/ University : University Visvesvaraya College of Engineering Bangalore
Year of Completion : April 2001
Thesis Title : Linear Elastic Analysis and Optimization of Conventional Bus Bodies using MSC/NASTRAN; Carried out at NAL-Bangalore
Results : First Class with Distinction - 77.76%
- **Graduation** : **B.E. (Mechanical Engineering)**
Specialization : Mechanical Engineering
Institute/ University : University Visvesvaraya College of Engineering Bangalore
Year of Completion : August 1997
Results : First Class - 66.67%

❖ *WORK EXPERIENCE*

- Organization : National Institute of Technology Karnataka-Surathkal
Designation : Professor
Period : 09.10.2023 Till Date
- Organization : National Institute of Technology Karnataka-Surathkal
Designation : Associate Professor
Period : 15 May 2018 to 08.10.2023
- Organization : National Institute of Technology Karnataka-Surathkal
Designation : Assistant Professor
Period : 31 May 2007 to 14 May 2018
- Organization : ICFAI Institute of Science and technology-Bangalore
Designation : Faculty Member
Period : 10 January 2007 to 30 May 2007

- Organization : M.V.J College of Engg, Bangalore
Designation : Lecturer
Period : 15 October 2001 to 12 January 2007
- Organization : Sreetech Designers Pvt. Ltd., Bangalore
Designation : Engineer (CAD)
Period : 3 November 1999 to 15 January 1999

❖ *VISITS ABROAD:*

- To present the research paper in an International Conference on Sustainable Energy and Green Technology [SEGT 2023]. Ho Chi Minh City, Vietnam, December 10-13, 2023
- To carry out ASEAN- India collaboration project work at Van Lang University, Ho Chi Minh City, Vietnam 22.12.2022 to 04.01.2023 (14 days)
- To carry out ASEAN- India collaboration project work at Universiti Teknologi Malaysia 02.08.2022 to 15.05.2022 (14 days)
- To carry out ASEAN- India collaboration project work at Institute for Computational Science Ton Duc Thang University Ho Chi Minh City, Vietnam 17.05.2022 to 31.05.2022 (14 days)
- To present the research paper in an International Conference on Sustainable Energy and Green Technology [SEGT 2019]. Bangkok, Thailand, December 11-14, 2019
- To Present Research Paper in the "ASME Conference on Smart Materials Adaptive Structures and Intelligent Systems" on September 9-11, 2019. Louisville, KY, USA
- To Present Research Paper in the 19th International Conference on application of Vibroengineering. Bangkok, Thailand, February 7-8, 2017.
- Research Interaction (Visiting Faculty) at University of Sao Paulo (USP), Brazil, 29 August 2016- 5 September 2016.
- Research Interaction (Visiting Faculty) at INHA University, Incheon, South Korea, 22 Nov-8 Dec 2008.

❖ *JOURNAL AND CONFERENCE PUBLICATIONS*

International Journals:

1. [Non-linear transient vibration response of graphene origami enhanced metamaterial beams under spatially-varying temperature distributions](#) 2025
J Pitchaimani, S Kattimani
Structures 73, 108295
2. [Tribological performance and 3-D surface characterisation of age-hardened Al2090-based ceramic composites](#) 2025
BN Sharath, V Mahesh, V Mahesh, S Kattimani, D Harursampath
Proceedings of the Institution of Mechanical Engineers, Part L: Journal of ...
3. [Machine Learning Enhanced Multi-Scale Dynamic Viscoelastic Analysis of 3-D Printable PETG Nanocomposite Filaments: Leveraging FFT-Based Mesh-Free Computational Homogenization ...](#) 2025
Y Aher, V Mahesh, A Joseph, V Mahesh, S Kattimani, D Harursampath
Physica B: Condensed Matter, 416965
4. [On enhancing the high-temperature wear behaviour of Al2090-based hybrid composites using tertiary ceramic particles](#) 2024
S BN, V Mahesh, V Mahesh, S Kattimani, D Harursampath
Proceedings of the Institution of Mechanical Engineers, Part L: Journal of ...
5. [Multi-Response Optimization in AA6063/SS304 Bimetallic Friction Welding using Taguchi Grey Relational Analysis](#) 2024

- SS Murugan, M Vishnoi, S Kattimani, TG Mamatha
Annals of "Dunarea de Jos" University of Galati. Fascicle XII, Welding ...
6. [Impact Energy Estimation of AISI304L/AA6063 Alloys Dissimilar Friction Welds Influenced by Various New Faying Surfaces: A Comparative Study](#) 2024
SS Murugan, P Sathiya, S Kattimani
Journal of The Institution of Engineers (India): Series D, 1-8
 7. [Nonlinear buckling and free vibration analysis of auxetic graphene origami composite beams under nonuniform thermal environment](#) 2024
Shashiraj, J Pitchaimani, S Kattimani
Mechanics Based Design of Structures and Machines, 1-32
 8. [Analysis of 3D-Printed Nylon/PETG Hybrid Polymer Laminate Plate for Wind Turbine Nacelle Application](#) 2024
SS Murugan, E Shankar, S Kattimani, VR Abish, G Anbu, AR Avinash
National Academy Science Letters, 1-6
 9. [Active layer damping of bi-directionally tapered functionally graded sandwich plates with 1-3 piezoelectric composites](#) 2024
SK Shada, S Kattimani, R MR
Mechanics of Advanced Materials and Structures, 1-20
 10. [Characterisation of fatigue delamination growth in plain woven hybrid laminated composites subjected to Mode-I loading](#) 2024
MLJ Suman, SM Murigendrappa, S Kattimani
Theoretical and Applied Fracture Mechanics 129, 104236
 11. [An electromechanical coupling isogeometric approach using zig-zag function for modeling and smart damping control of multilayer PFG-GPRC plates](#) 2024
T Nguyen-Thoi, DK Ly, S Kattimani, C Thongchom
Acta Mechanica 235 (2), 941-970
 12. [On enhancing the high-temperature wear behaviour of Al2090-based hybrid composites using tertiary ceramic particles](#) 2024
BN Sharath, V Mahesh, S Kattimani, D Harursampath
Proceedings of the Institution of Mechanical Engineers, Part L: Journal of ...
 13. [Influence of moisture absorption on the compressive behavior of halloysite nanotube reinforced buoyant nanocomposite foams for maritime applications](#) 2023
MS Bakshi, S Kattimani
Polymer Composites 44 (11), 7783-7793
 14. [Static, buckling, and free vibration characteristics of porous skew partially functionally graded magneto-electro-elastic plate](#) 2023
K Madrahalli Chidanandamurthy, W Wang, C Fang, S Kattimani
Mechanics Based Design of Structures and Machines 51 (10), 5541-5576
 15. [Free vibration analysis of a skew sandwich plate with bamboo biocomposite and polylactic acid core under temperature and moisture conditions](#) 2023
AS Gawande, S Kattimani, SM Murigendrappa, T Nguyen-Thoi, ...
Noise & Vibration Worldwide 54 (9), 434-459
 16. [A CFD-Based Design of S-Shaped Nozzle Attachment for Aircraft Cabin Gaspers](#) 2023
VK Srinivasa, S Kattimani
International Journal of Computational Fluid Dynamics 37 (8), 729-745
 17. [Aerostructural performance improvement in an unmanned long endurance aircraft using adaptive wing concept](#) 2023
AK Sampath, MA Padmanabhan, S Kattimani
Proceedings of the Institution of Mechanical Engineers, Part G: Journal of ...
 18. [Numerical Investigation of Gasper Air Jet Dynamics in an Aircraft Cabin](#) 2023
VK Srinivasa, S Kattimani, G Reddy C
International Journal of Computational Fluid Dynamics 37 (4), 298-315
 19. [Probing the effect of post-curing and halloysite nanotube reinforcement on thermo-mechanical properties of lightweight epoxy syntactic foam composites](#) 2023
MS Bakshi, S Kattimani

- Proceedings of the Institution of Mechanical Engineers, Part L: Journal of ...

20. [Geometrically nonlinear study of functionally graded saturated porous plates based on refined shear deformation plate theory and biot's theory](#) 2023

HS Naveen Kumar, S Kattimani, FD Marques, T Nguyen-Thoi, M Shariati

International Journal of Structural Stability and Dynamics 23 (02), 2350013
21. [Effect of radiofrequency coil and primary magnetic field on radiolucent composite plates](#) 2023

AS Gawande, S Mukka Ramachanra, H Kamyab, NT Trung, S Kattimani

Noise & Vibration Worldwide 54 (1), 44-58
22. [Effect of temperature and porosity on free vibration characteristics of a doubly-curved skew laminated sandwich composite structures with 3D printed PLA core](#) 2023

V Kallannavar, S Kattimani

Thin-Walled Structures 182, 110263
23. [Characterization of Aircraft Gasper Jet Flow using Computational Fluid Dynamics Method](#) 2022

VK Srinivasa, S Kattimani, G Reddy
24. [Active Vibration Control of Laminated Composite Beam Operating in Thermal Environment using PZT-5H Patches](#) 2022

K Saini, RK Akumalla, V Kallannavar, S Kattimani

Mechanics of Advanced Composite Structures 9 (2), 387-398
25. [Geometrically nonlinear behavior of two-directional functionally graded porous plates with four different materials](#) 2022

NK Hosur Shivaramaiah, S Kattimani, M Shariati, T Nguyen-Thoi

Proceedings of the Institution of Mechanical Engineers, Part C: Journal of ...
26. [Effect of temperature on the performance of active constrained layer damping of skew sandwich plate with CNT reinforced composite core](#) 2022

V Kallannavar, S Kattimani

Mechanics of Advanced Materials and Structures 29 (26), 5423-5442
27. [Frequency response analysis of edge-cracked magneto-electro-elastic functionally graded plates using extended finite element method](#) 2022

EL Sh, S Kattimani, NT Trung

Theoretical and Applied Fracture Mechanics 120, 103417
28. [Influence of temperature and moisture on free vibration behavior of skew laminated composite sandwich panels with CNTRC core](#) 2022

V Kallannavar, S Kattimani, H Ramesh

International Journal of Structural Stability and Dynamics 22 (08), 2250083
29. [Effect of different geometrical non-uniformities on nonlinear vibration of porous functionally graded skew plates: a finite element study](#) 2022

HSN Kumar, S Kattimani

Defence Technology 18 (6), 918-936
30. [Effect of porosity on active damping of geometrically nonlinear vibrations of a functionally graded magneto-electro-elastic plate](#) 2022

LS Esayas, S Kattimani

Defence Technology 18 (6), 891-906
31. [Nonlinear analysis of two-directional functionally graded doubly curved panels with porosities](#) 2022

HSN Kumar, S Kattimani

Structural Engineering and Mechanics, An Int'l Journal 82 (4), 477-490
32. [Vibration control of laminated composite cantilever beam operating in elevated thermal environments using fuzzy logic controller](#) 2022

RK Akumalla, V Kallannavar, S Kattimani

Noise & Vibration Worldwide 53 (4-5), 261-273
33. [Experimental investigation of the pseudoelastic behavior on zirconium modified Cu–Al–Be shape memory alloys for seismic applications](#) 2022

T Kalinga, SM Murigendrappa, S Kattimani

- Smart Materials and Structures 31 (5), 055009
34. [Nonlinear free vibration and transient responses of porous functionally graded magneto-electro-elastic plates](#) 2022
EL Sh, S Kattimani, M Vinyas
- Archives of Civil and Mechanical Engineering 22 (1), 38
35. [Prediction of cohesive zone length and accurate numerical simulation of delamination under mixed-mode loading](#) 2021
C HC, S Kattimani, SM Murigendrappa
- Applied Composite Materials 28 (6), 1861-1898
36. [Influence of porosity distribution on nonlinear free vibration and transient responses of porous functionally graded skew plates](#) 2021
NK HS, S Kattimani, T Nguyen-Thoi
- Defence Technology 17 (6), 1918-1935
37. [An experimental evaluation of the microstructure, mechanical and functional fatigue properties of the boron-doped Cu-Al-Be SMA wires](#) 2021
RK Singh, P Biswas, SM Murigendrappa, S Kattimani
- Materials & Design 210, 110081
38. [Effect of piezoelectric interphase thickness on nonlinear behavior of multiphase magneto–electro–elastic fibrous composite plate](#) 2021
S Kattimani
- Journal of Vibration Engineering & Technologies 9 (7), 1533-1555
39. [Pseudoelastic Behavior of Boron-Doped-Type Cu-Al-Be Shape Memory Alloys](#) 2021
T Kalinga, SM Murigendrappa, S Kattimani
- Journal of Materials Engineering and Performance 30 (8), 6068-6078
40. [Effect of similar and dissimilar interface layers on delamination in hybrid plain woven glass/carbon epoxy laminated composite double cantilever beam under Mode-I loading](#) 2021
MLJ Suman, SM Murigendrappa, S Kattimani
- Theoretical and Applied Fracture Mechanics 114, 102988
41. [Neural network-based prediction model to investigate the influence of temperature and moisture on vibration characteristics of skew laminated composite sandwich plates](#) 2021
V Kallannavar, S Kattimani, MEM Soudagar, MA Mujtaba, S Alshahrani, ...
- Materials 14 (12), 3170
42. [Study of mechanical and dynamic mechanical behavior of halloysite nanotube-reinforced multiscale syntactic foam](#) 2021
MS Bakshi, S Kattimani
- Journal of Applied Polymer Science 138 (7), 49855
43. [On vibration analysis of functionally graded carbon nanotube reinforced magneto-electro-elastic plates with different electro-magnetic conditions using higher order finite ...](#) 2021
M Vinyas, D Harursampath, SC Kattimani
- Defence Technology 17 (1), 287-303
44. [Influence of porosity distribution on nonlinear free vibration and transient responses of porous functionally graded skew plates](#) 2021
S Kattimani, T Nguyen-Thoi
45. [Effect of temperature and moisture on free vibration characteristics of skew laminated hybrid composite and sandwich plates](#) 2020
V Kallannavar, B Kumaran, SC Kattimani
- Thin-Walled Structures 157, 107113
46. [Investigation on properties of shape memory alloy wire of Cu-Al-Be doped with zirconium](#) 2020
RK Singh, SM Murigendrappa, S Kattimani
- Journal of Materials Engineering and Performance 29, 7260-7269
47. [Assessment of vibrational frequencies and static characteristics of multilayered skew](#) 2020

- magneto-electro-elastic plates: a finite element study
MC Kiran, S Kattimani
Iranian Journal of Science and Technology, Transactions of Mechanical ...
48. Thermal response analysis of multi-layered magneto-electro-thermo-elastic plates using higher order shear deformation theory 2020
M Vinyas, D Harursampath, SC Kattimani
Structural Engineering and Mechanics, An Int'l Journal 73 (6), 667-684
49. Finite element simulation of controlled frequency response of skew multiphase magneto-electro-elastic plates 2019
V Mahesh, S Kattimani
Journal of Intelligent Material Systems and Structures 30 (12), 1757-1771
50. Experimental investigation on free vibration of composite beams implanted Ni-Ti shape memory alloy wires 2019
RK Singh, SM Murigendrappa, S Kattimani
AIP Conference Proceedings 2057 (1)
51. Coupled evaluation of the free vibration characteristics of magneto-electro-elastic skew plates in hygrothermal environment 2019
V Mahesh, S Kattimani, D Harursampath, NT Trung
Smart Structures and Systems, An International Journal 24 (2), 267-292
52. Finite element evaluation of free vibration characteristics of magneto-electro-elastic rectangular plates in hygrothermal environment using higher-order shear deformation theory 2018
M Vinyas, SC Kattimani
Composite Structures 202, 1339-1352
53. Effect of BaTiO₃/CoFe₂O₄ micro-topological textures on the coupled static behaviour of magneto-electro-thermo-elastic beams in different thermal environment 2018
M Vinyas, SC Kattimani, MAR Loja, M Vishwas
Materials Research Express 5 (12), 125702
54. Assessment of porosity influence on vibration and static behaviour of functionally graded magneto-electro-elastic plate: A finite element study 2018
MC Kiran, SC Kattimani
European Journal of Mechanics-A/Solids 71, 258-277
55. Hygrothermal coupling analysis of magneto-electroelastic beams using finite element methods 2018
M Vinyas, SC Kattimani, S Joladarashi
Journal of Thermal Stresses 41 (8), 1063-1079
56. Buckling analysis of skew magneto-electro-elastic plates under in-plane loading 2018
MC Kiran, S Kattimani
Journal of Intelligent Material Systems and Structures 29 (10), 2206-2222
57. Vibration control of multiferroic fibrous composite plates using active constrained layer damping 2018
SC Kattimani, MC Ray
Mechanical Systems and Signal Processing 106, 334-354
58. Porosity influence on structural behaviour of skew functionally graded magneto-electro-elastic plate 2018
MC Kiran, SC Kattimani, M Vinyas
Composite Structures 191, 36-77
59. Finite element modelling for mode-I fracture behaviour of CFRP 2018
HC Chetan, S Kattimani, SM Murigendrappa
AIP Conference Proceedings 1943 (1)
60. Influence of coupled fields on free vibration and static behavior of functionally graded magneto-electro-thermo-elastic plate 2018
V Mahesh, PJ Sagar, S Kattimani
Journal of Intelligent Material Systems and Structures 29 (7), 1430-1455
61. Investigation of the effect of BaTiO₃/CoFe₂O₄ particle arrangement on the static 2018

- response of magneto-electro-thermo-elastic plates
M Vinyas, SC Kattimani
Composite Structures 185, 51-64
62. Free vibration and static analysis of functionally graded skew magneto-electro-elastic plate 2018
MC Kiran, SC Kattimani
63. A 3D finite element static and free vibration analysis of magneto-electro-elastic beam 2017
M Vinyas, SC Kattimani
Coupled System Mechanics 6 (4), 465-485
64. Hygrothermal analysis of magneto-electro-elastic plate using 3D finite element analysis 2017
M Vinyas, SC Kattimani
Composite Structures 180, 617-637
65. Active damping of multiferroic composite plates using 1–3 piezoelectric composites 2017
SC Kattimani
Smart Materials and Structures 26 (12), 125021
66. Static analysis of stepped functionally graded magneto-electro-elastic plates in thermal environment: a finite element study 2017
M Vinyas, SC Kattimani
Composite Structures 178, 63-86
67. Multiphysics response of magneto-electro-elastic beams in thermo-mechanical environment 2017
M Vinyas, SC Kattimani
Coupled System Mechanics, An International Journal 3 (6), 351-367
68. Static studies of stepped functionally graded magneto-electro-elastic beam subjected to different thermal loads 2017
M Vinyas, SC Kattimani
Composite Structures 163, 216-237
69. Geometrically nonlinear vibration analysis of multiferroic composite plates and shells 2017
SC Kattimani
Composite Structures 163, 185-194
70. Buckling characteristics and static studies of multilayered magneto-electro-elastic plate 2017
MC Kiran, SC Kattimani
71. A finite element based assessment of static behavior of multiphase magneto-electro-elastic beams under different thermal loading 2017
M Vinyas, SC Kattimani
72. Static behavior of thermally loaded multilayered Magneto-Electro-Elastic beam 2017
M Vinyas, SC Kattimani
Structural Engineering and Mechanics An Int'l Journal 63 (4), 481-495,
73. Active Control of Multiferroic Composite Shells Using 1-3 Piezoelectric Composites 2017
SC Kattimani
International Journal of Mechanical & Mechatronics Engineering 4 (2), 61791 ...
74. Control of geometrically nonlinear vibrations of functionally graded magneto-electro-elastic plates 2015
SC Kattimani, MC Ray
International Journal of Mechanical Sciences 99, 154-167
75. Active control of large amplitude vibrations of smart magneto–electro–elastic doubly curved shells 2014
SC Kattimani, MC Ray
International Journal of Mechanics and Materials in Design 10, 351-378
76. Smart damping of geometrically nonlinear vibrations of magneto-electro-elastic 2014

plates

SC Kattimani, MC Ray
Composite Structures 114, 51-63

77. [Performance of Savonious rotors for utilizing the orbital motion of ocean waves in shallow waters](#) 2011

VK Hindasageri, H Ramesh, SC Kattimani
J. Sustainable Energy and Environment 2, 117-119

National Journals

2024

[Analysis of UNS S31603 ferrous joint made by rotary friction welding](#)
S SENTHIL MURUGAN, S Girisankar, C Devanathan, S Kattimani
Sādhanā 49 (2), 1-11

Book Chapters:

1. Development of Metal Matrix Composites Through Liquid State Technique: Senthil Murugan Subramanian, Subhaschandra Kattimani, 2025, CRC Press, "Fundamentals and Advances in Metal Matrix Composites" 15-34, DOI: 10.1201/9781003499718-2.
2. Free Vibration and Damping Characteristics of Completely Biodegradable Polymer-Based Composites Free; CRC Press 2022, "Vibration and Damping Characteristics of Completely Biodegradable Polymer-Based Composites", 1 pg 9, <https://doi.org/10.1201/9781003173625> ; (eBook ISBN9781003173625)

Conferences:

1. D Kumar, V Kallannavar, **S Kattimani**, BRP Reddy, Dynamic analysis of laminated composite sandwich plates with a circular hole, IOP Conference Series: Materials Science and Engineering 1136 (1), 012050
2. V Kallannavar, **S Kattimani**, Modal analysis of laminated composite and sandwich plates using finite element method, AIP Conference Proceedings 2247 (1), 020011.
3. MS Bakshi, **S Kattimani**, Flexural behavior of nanoclay filled glass fiber/epoxy polymer nanocomposites, AIP Conference Proceedings 2247 (1), 020012.
4. MLJ Suman, SM Murigendrappa, **S Kattimani**, Experimental investigation on free vibration of composite beams implanted Ni-Ti shape memory alloy wires, AIP Conference Proceedings 2057 (1), 020011.
5. V Mahesh, HN Ravichandra, **S Kattimani**, CV Nagaraja, Hygrothermal response analysis of MEE beam embedded in adaptive wood through FE methods, AIP Conference Proceedings 2204 (1), 040007.
6. **S. Kattimani**, S. Kumar, A. Choudhary, D. Paul, S. M. Madhukar. Magneto-electro-elastic Composite Plates for Vibration-Based Energy Harvesting., International Conference on Sustainable Energy and Green Technology 2019 (SEGT 2019), December 11-14 2019, Bangkok, Thailand.
7. **S. Kattimani**, Sharanappa J., Vinyas M. Geometrically nonlinear vibration attenuation of functionally graded magneto-electro-elastic shells. ASME Conference on Smart Materials Adaptive Structures and Intelligent Systems (SMASIS 2019)" **September 9-11, 2019. Louisville, KY, USA**
8. Vinayak Kallannavar, Sagar Umatar, **S. C. Kattimani**, Dynamic Performance of Laminated Composite Plates with a Circular Hole, ERCAM - 2019, NMIT Bangalore, India.
9. Suman, M. L. J., S. M. Murigendrappa, and **S. Kattimani**. Experimental investigation on modal characteristics of plain woven glass/carbon hybrid composite beams with fixed-free end condition. In AIP Conference Proceedings, vol. 2057, no. 1, p. 020011. AIP Publishing, 2019.
10. Singh, Ratnesh Kumar, S. M. Murigendrappa, and **S. Kattimani**. Experimental investigation on free vibration of composite beams implanted Ni-Ti shape memory alloy wires. In AIP Conference Proceedings, vol. 2057, no. 1, p. 020012. AIP Publishing, 2019.
11. Chetan H C and **Kattimani S C.**, Finite Element Modelling for Mode-I Fracture Behaviour of CRPF, ICDEM- 2018, NITK Surathkal, India

12. Kiran M. C. and **Kattimani S. C.**, “Investigation of Free Vibration Characteristics for Skew Multiphase Magneto-Electro-Elastic Plate” ICDEM- 2018, NITK Surathkal, India.
13. Kiran M. C. and **Kattimani S. C.**, “Investigation of the influence of porosity on the structural behaviour of the stepwise graded multiphase magneto-electro-elastic skew plate” 1st International Conference on Theoretical, Analytical and Computational Methods for Composite Materials and Composite Structures in **Wuhan, China** 23-25 May 2018.
14. Vinyas, M., Piyush, S., **Kattimani, S.C.** “Static response of functionally graded magneto-electro-elastic plates subjected to thermal, electric and magnetic loads”. *Int. Conf. Compos. Struct. (ICCS-20)*, **Paris, France**, 4th – 7th September 2017.
15. Vinyas, M., Piyush, S., **Kattimani, S.C.** “A fully coupled FE formulation for the free vibration and static analysis of functionally graded magneto-thermo-electro-elastic plates”, *Int. Conf. Compos. Struct. (ICCS-20)*, **Paris, France**, 4th – 7th September 2017.
16. Influence of Coupled Material Properties of BaTiO₃ and CoFe₂O₄ on the Static Behavior of Thermo-Mechanically Loaded Magneto-Electro-Elastic Beam” Vinyas M and **S C Kattimani**, *International conference on emerging trends in materials and manufacturing engineering (IMME17) at National Institute of Technology, Trichy*. 10 – 12 March- 2017.
17. Active Control of Multiferroic Composite Shells Using 1-3 Piezoelectric Composites” **S C Kattimani**, *19th International Conference on applications of Vibroengineering held at Bangkok, Thailand*, 7-8, February 2017.
18. Free Vibration of Multilayered Magneto-Electro-Elastic Plates With Skewed Edges Using Layer wise Shear Deformation Theory” Kiran MC and **S C Kattimani**, International Conference on Smart engineering materials (ICSEM-2016), RV College of Engineering, Bangalore, 20 – 22 October- 2016.
19. Control of geometrically nonlinear vibrations of functionally graded multiferroic composite doubly-curved shells” **S C Kattimani** and MC Ray, International Congress on Computational Mechanics and Simulation, *CSIR-Structural Engineering Research Centre (CSIR-SERC) at Chennai*, 10-13 December- 2014.

❖ **RESEARCH GRANTS:**

- Principal Investigator: “Investigation on radiolucent composite sandwich materials for biomedical imaging systems under hygrothermal environment” AISTDF-SERB (Rs 37.08L), July 2020-2022.
- Principal Investigator: "Active Vibration Control of Laminated Composite Sandwich Plates in Hygrothermal Environment using 1-3 Piezoelectric Composites" DST-SERB (Rs 47.90L), 2019-2021
- Principal Investigator: "Experimental Characterization and Numerical Modelling of Delamination Growth in Fiber Reinforced Polymer Laminated Composites under Cyclic Loading" DST-SERB (Rs.26.84L), 2018-2020
- Co-Principal Investigator: "An Experimental and Theoretical Investigation on Narrow Thermal Hysteresis of Cu-Al-Be Based SMA Actuator for Vibration Isolation" DST-SERB (Rs. 16.5L), 2018-2020

PhD Guided:	13
Post-Doctoral Fellows:	01
MTech Project:	15
MTech (Research)	02

Awards and Honours:

Prof. Satish Dhawan State Award for Young Scientist and Engineers- 2021, Govt. of Karnataka.

Visiting Professor at Ton Duc Thang University Vietnam from 1 May 2022 to 31 March 2023.

Featured in the list of the top 2 % of scientists worldwide, a global list compiled by the prestigious Stanford University in 2020, 2021, 2022, 2023, 2024 and 2025 based on the Scopus database citation list

❖ *SUBJECTS HANDLED:*

Mechanics of Solids, Theory of Elasticity, Applied Elasticity, Mechanics of Polymer Composites, Analysis and Design of Machine Components, Measurements Instrumentation and Controls, Mechanical Vibrations, Mechanical Behaviors of Engineering Materials, Engineering Graphics.

❖ *MEMBERSHIP OF PROFESSIONAL BODIES:*

Life Member of **ISTE-LM-37911 (2003)**

Life Member of **ORSI (2004)**

Life Member of **IEI- M-150879 (2015)**

Life Member of **IndACM (2115)**

Life Member of **Institute of Smart Structures Systems (ISSS) (2026)**

❖ *ACADEMIC SERVICES:*

- **Joint Secretary**, International Conference on Design, Materials & Manufacture (IcDeM 2019) December 06-08, 2019
- Organizer, 15-day workshop Skill Development Programme, 3rd - 17th July 2019
- **Course Coordinator/ Organizer**, Short Term GIAN (Global Initiative of Academic Networks) Course on "Aeroelasticity - Fundamentals and Topics on Nonlinear Problems", November 12-16, 2018, NITK Surathkal, Karnataka.
- **Joint Secretary**, International Conference on Design, Materials & Manufacture (IcDeM 2018) January 29-31, 2018
- **Member Organizing Committee**, 42nd National Conference on Fluid Mechanics and fluid power, 14-16 Dec, 2015.
- **Coordinator**, Two-day National Workshop on Advances in Stress Analysis and Dynamics 16-17, March 2017.
- **Organizer**, an expert lecturer series by Professors from Ural Federal University, Russia, 13-16, Nov. 2015

Contribution as a Reviewer for the following Journals.

- *Mechanics of Advanced Materials and Structures (2021)*
- *Waves in Random and Complex Media (2021)*
- *Journal of Vibration Engineering and Technology (2021)*
- *Applied Mathematics and Computation (2021)*

- Act Mechanica at Automatica(2021)
- Part C: Journal of Mechanical Engineering Science (2021)
- Thin-Walled Structures. (2021)
- Journal of Vibration Control
- Smart Material and Structures
- Multidiscipline Modeling in Materials and Structures.
- Journal of Intelligent Material Systems and Structures.
- Structural Engineering and Mechanics.
- Mechanics of Advanced Materials and Structures.
- Scientia Iranica.
- Thin-Walled Structures. (2020,2021)
- Journal of Applied and Computational Mechanics.
- Journal of Non-Linear Science.
- Advances in Mechanical Engineering.

❖ *ADMINISTRATIVE SERVICES:*

Department Level:

HoD- Mechanical Engg. Dept.

Faculty advisor BTech M2

Chairman DUGC

- | | |
|--|----------------------|
| • Ph.D. Comprehensive Examination | 22.01.2026 Till date |
| • Secretary, DRPC | 2024 – Till date |
| • In-charge, Department Academic Time-Table | 2021 |
| • In-charge, APF | 2020- 2022 |
| • Member, DUGC, DPGC, DRPC | (2019 -2020) |
| • Member, Selection Committee for admission to Ph. D & M. Tech. (Res.) | (2016 to 2019) |
| • Faculty advisor, M Tech (Design & Precision) | (2016) |
| • In-charge, for preparing component -5, for NBA (M.Tech.) | (2016-2017) |
| • Assistance for preparing FIST level-2 project proposal | (2016, 2019) |
| | (2016) |
| | (2015) |

Institute Level:

- | | |
|---|--------------------------|
| • Director- Employee's Credit Co-op Society | 2026 to next 5 years |
| • Director- Student Co-op Society | 2026 to next 5 years |
| • Member, Institute Examination Monitoring Committee | , Dec 2023 to Dec 2024 |
| • Associate Dean -I (Research & Consultancy) | 29.07.2021 to 15.01-2024 |
| • Executive Committee Member, Center of Excellence Disaster Risk Reduction: | 2019 to |
| Jan 2023 | |
| • Warden, PG Block / 4th Block warden | (2015 to 2018) |
| • Stock verification for NITK Hostel office | (2017) |
| • Stock verification for RE office | (2018) |
| • Member, anti-ragging committee | (2015, 2016, 2017) |
| • Department faculty coordinator for ring presentation ceremony | (2016, 2017) |
| • Member, Convocation seating arrangement and registration committee | (2015, 2016, 2018) |

- **Member**, M.Tech. Admissions and counseling committee (2016-2018)
- **Associate** NCC Officer (ANO) (2010)

Outside the Institute:

- BOS member, Malnad College of Engineering Hassan 04.08.2021-05.08.2025
- BOS member, ACS College of Engineering, Bangalore July 2026
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❖ *PERSONAL PROFILE:*

Date of birth : 1 June 1975
 Gender : Male
 Nationality : Indian
 Marital status : Married
 Father's Name : Hanamantappa Kattimani
 Permanent Address : Dr. Subhaschandra Kattimani
 # AP-05, NITK Staff Qtrs. NITK Campus, Surathkal,
 Srinivasnagar PO, Mangalore-575025, Karnataka, India

I hereby declare that all the details furnished above are true to the best of my knowledge.

Place: NITK-Surathkal

Date: (SUBHASCHANDRA KATTIMANI)