

PROFILE



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Education:

- Ph. D. Instrumentation & Control Engineering, 2023, National Institute of Technology, Trichy, Tamil-Nadu, India.
- M.B.A. 2009, Yaswantrao Chavan Open University, Nashik
- M. E. (Instrumentation Engineering), 2002, SGGS Institute of Engineering & Technology, Nanded, India.
- B. E. (Instrumentation Engineering), 1999, SGGS Institute of Engineering & Technology, Nanded, India.

Experience:

- Head of Department, Instrumentation Engineering, Government Polytechnic, Mumbai, 12 Oct. 2021 – present
- Head of Department, Instrumentation Engineering, Government Polytechnic, Yavatmal, 27th Dec 2018 – 11th Oct. 2021.
- Assistant Professor, Instrumentation Engineering, Government College of Engineering, Chandrapur, 19th June 2010 – Dec 2018.
- Junior Engineer (Designated as a Asstt. Engineer), Maharashtra State Power Generation Company Ltd Koradi, Nagpur 26th August 2008 – 18th June 2010.
- Assistant Professor, Instrumentation Engineering, Government College of Engineering, Amravati, Oct 2003 – July 2008
- Lecturer, Gramin Polytechnic, Nanded, Nov 2001 – Oct. 2003.

Sensors and Actuators, Machine Learning and Deep Learning
Smart Structure and System

Research Interest

Research Area

Publications:

- 1) “Modified sigmoid based model and experimental analysis of shape memory alloy spring as variable stiffness actuator”, Bhagoji B. Sul and K. Dhanalakshmi, Smart Structures and Systems, Vol. 24, No. 3 (2019) 361-377, DOI: <https://doi.org/10.12989/sss.2019.24.3.631>.
- 2) “Machine Learning based Self Sensing Stiffness of Shape Memory Coil” Bhagoji B. Sul and K. Dhanalakshmi, Springer Publications date 9th March 2022; Soft Computing **26**, 3743–3755 (2022). DOI: <https://doi.org/10.1007/s00500-022-06818-1>.
- 3) Self-sensing variable stiffness actuation of shape memory coil by an inferential soft sensor”, Bhagoji Bapuro Sul and K. Dhanalakshmi, Sensors **2023**, 23(5), 2442; DOI: Published: 22nd February 2023; DOI : <https://doi.org/10.3390/s23052442>

Conferences:

- 1) “Sigmoid-based Force Modeling and Shape Recovery Characteristics of SMA Spring Actuator”, Bhagoji B. Sul and K. Dhanalakshmi, Proceedings of the 14th IEEE International Conference INDICON, 15th -17th December 2017, IIT Roorkee, India.
- 2) "Neural Network-based Displacement Modeling of Shape Memory Alloy Spring Actuator", Bhagoji B. Sul, Chinari Subhechha Subudhi, and K. Dhanalakshmi, IEEE Sensors International Conference, Oct. 2018 held at Pullman Hotel Aero-city, New Delhi India. <https://doi.org/10.1109/ICSENS.2018.8589922>.
- 3) “Self-sensing characteristics and analysis of the stiffness of the SMA spring actuator”, Bhagoji B. Sul and K. Dhanalakshmi, 8th IEEE India International Conference on Power Electronics (IICPE), Dec. 2018 held at MNIT, Jaipur. <https://doi.org/10.1109/IICPE.2018.8709334>.