

## G. K. Ananthasuresh

Professor, Mechanical Engineering

Co-chair, Centre for Biosystems Science and Engineering

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### Academic Preparation

Post-doc Research Associate, Microsystems Technology Laboratories, Massachusetts Institute of Technology (MIT), Cambridge, MA, 1995–1996.

Ph.D., Mech. Engineering, University of Michigan, Ann Arbor, MI, 1994.

M.S., Mech. Engineering, University of Toledo, Toledo, Ohio, 1991.

B.Tech., Mech. Engineering, Indian Institute of Technology, Chennai (Madras), India, 1989.

### Research Areas

Compliant mechanisms, Topology optimization, Microelectromechanical Systems, Kinematics, and Bio-Micromanipulation

### Appointments

2009 Jul. - Present Professor, Department of Mechanical Engineering, Indian Institute of Science (IISc), Bengaluru.

2015 Jun. - present First Co-chair, Centre for BioSystems Science and Engineering, IISc.

2012 May - Present Coordinator, Interdisciplinary PhD Programme in Bioengineering, IISc.

2011 Mar.-Jul. 2013 Associate Chair, Robert Bosch Centre for Cyber Physical Systems, IISc.

2004 Aug.- Jun. 2009 Associate Professor, Department of Mechanical Engineering, IISc.

2004 Aug.-Jul. 2008 Adjunct Associate Professor, Department of Mechanical Engineering and Applied Mechanics, University of Pennsylvania, Philadelphia, PA, USA.

2002 Jul.- Jul. 2004 Associate Professor, Department of Mechanical Engineering and Applied Mechanics, University of Pennsylvania, Philadelphia, PA, USA

2001 Jul.-Jul. 2004 MEAM Graduate Group Chair, University of Pennsylvania, USA

1996 Sep.-2002 Jun. Assistant Professor, Department of Mechanical Engineering and Applied Mechanics, University of Pennsylvania, Philadelphia, PA, USA

### Academic Recognitions

- Abdul Kalam Technology Innovation National Fellowship by INAE/DST, in the inaugural year of 2017.
- Shanti Swarup Bhatnagar Prize for 2010 in Engineering Sciences given by Council for Scientific and Industrial Research (CSIR), the Government of India (The highest honor conferred for scientists below age 45 in India).
- Fellow of the Indian National Academy of Engineers (INAE), 2010.
- Swarnajayanthi Fellowship (2007-2012) of the Department of Science and Technology (DST) of the Government of India.
- National Science Foundation (NSF) Faculty Early Career (*CAREER*) Award, 1998-2002 from the Design, Manufacture and Industrial Innovation (DMII) division of the NSF, USA.
- Ralph R. Teetor Educational Award given by the Society of Automotive Engineers (SAE), 2000.
- 12 best paper awards and 10 design prizes in national and international conferences.

### Advising

**Post-doctoral advisees:** 8 (past 5; and present 3); **Doctoral advisees:** 30 (past 19; and 11 present); 6 in academia and 13 in the industry **Master's degree advisees:** 36 (past 35; and present 1)

**Companies spun-off:** 2 **Products deployed by student entrepreneurs:** 5

### Publication Record

98 journal; 169 conference; 2 textbooks; 4 edited books; 15 book-chapters; 7 granted patents and 5 in process.

Google H-index = 42; i-10 index = 91: citations= 6,489 (as on Feb. 8, 2019)

### Editorial Boards

- Editor in Chief, Journal of IISc; Associate Editor, ASME *Journal of Mechanisms and Robotics*. (2008-2011), *Mechanics Based Design of Structures and Machines*, Taylor and Francis, Inc. (2006-2013), *Robotica*, international journal published by Oxford University Press (2006-2012), *Journal of Mechanical Design*, *Transactions of the ASME* (2003-2006), Editorial Board, *Current Science*, Indian National Science Academy, Bangalore. (2008-2012), *Resonance*, A Science Education Journal of the Indian National Academy of Science, Bangalore. (2008-present), Editorial Board, *The Journal of the Indian Institute of Science* (2007-present), Editorial Board of *Sadhana* and the *Journal of ISSS* (2012-2017).