

Koushil Sreenath

Education

- 2007–2011 **Ph.D. Electrical Engineering and Computer Science**, *The Univ. of Michigan*, Ann Arbor
Thesis: Feedback Control of a Bipedal Walker and Runner with Compliance
Advisor: Jessy W. Grizzle
- 2007–2011 **M.S. Applied Mathematics**, *The Univ. of Michigan*, Ann Arbor
- 2004–2005 **M.S. Electrical Engineering**, *The Univ. of Texas*, Arlington
Thesis: Adaptive Sampling using Mobile WSN
Advisors: Dan O. Popa and Frank L. Lewis
- 1998–2002 **B.E. Electronics & Communication**, *PES Institute of Technology*, affiliated to Visvesvaraya Technological University, India

Professional Experience

Academic

- 2021–
Present **Assoc. Professor**, *Mechanical Engineering*
Univ. of California, Berkeley
- 2017–2021 **Asst. Professor**, *Mechanical Engineering*
Univ. of California, Berkeley
- 2017–2020 **Adjunct Asst. Professor**, *Mechanical Engineering*
Carnegie Mellon University, Pittsburgh
- 2013–2017 **Asst. Professor**, *Mechanical Engineering; Robotics Institute (Courtesy Appointment); Electrical and Computer Engineering (Courtesy Appointment)*
Carnegie Mellon University, Pittsburgh
- 2011–2013 **Postdoctoral Research Fellow**, *Mechanical Engineering and Applied Mechanics, GRASP Lab*,
Univ. of Pennsylvania, Philadelphia, with Vijay Kumar
- 2007–2011 **Graduate Research Asst.**, *The Univ. of Michigan*, Ann Arbor, with Jessy W. Grizzle
- 2004–2005 **Research Asst.**, *The Univ. of Texas*, Arlington, with Dan O. Popa, Frank L. Lewis

Industry

- 2021–2022 **Consultant**, *Energy Internet Corp.*, San Jose, CA
- 2015–2016 **CTO and Co-Founder**, *CleanRobotics Inc.*, Pittsburgh, PA
- 2006–2007 **Research Engineer II**, *Intelligent Controls Group*, Saint-Gobain R&D Center, Northboro, MA
- 2002–2003 **Asst. Systems Engineer**, *TATA Consultancy Services*, Chennai, India

Awards and Honors

- 2023 **Best Paper Award**, *Learning for Dynamics & Control Conference (L4DC)*
Paper: “In-Distribution Barrier Functions: Self-Supervised Policy Filters that Avoid Out-of-Distribution States.”
- 2022 **Best RoboCup Paper Award Finalist**, *IEEE International Conference on Intelligent Robots and Systems (IROS)*
Paper: “Hierarchical Reinforcement Learning for Precise Soccer Shooting Skills using a Quadrupedal Robot.”

- 2021 **Best Paper Award Finalist in Service Robotics**, *IEEE International Conference on Robotics and Automation (ICRA)*
Paper: “Robotic Guide Dog: Leading a Human with Leash-Guided Hybrid Physical Interaction.”
- 2020 **Best Entertainment and Amusement Paper Finalist**, *IEEE International Conference on Intelligent Robots and Systems (IROS)*
Paper: “Animated Cassie: A Dynamic Relatable Robotic Character.”
- 2020 **Hellman Fellow**
Project: PDE-based Dynamics and Control for Fire Fighting Using a Flying Fire Hose
- 2020 **NSF CAREER, CMMI**
Project: “Control and Fractal-based Stability of Dynamic Vision-Based Aperiodic Legged Locomotion.”
- 2017 **Best Systems Paper Finalist**, *Robotics: Science and Systems (RSS)*
Paper: “Dynamic Walking on Randomly-Varying Discrete Terrain with One-step Preview.”
- 2017 **George Tallman Ladd Research Award**, *Carnegie Mellon University*
 The George Tallman Ladd award is made to a faculty member within the College of Engineering in recognition of outstanding research and professional accomplishments and potential.
- 2016 **Congressional Robotics Caucus**, *Washington D.C*, Invited to showcase NSF NRI research
Project: Unified Feedback Control and Mechanical Design for Robotic, Prosthetic, and Exoskeleton Locomotion.
- 2015 **Google Faculty Research Award in Robotics**.
Project: “Aerial Delivery through Complex and Cluttered Environments.”
- 2015 **NSF CISE Research Initiation Initiative Award (CRII)**
Project: “Dynamic Multi-Robot Coordination and Cooperation Using Dynamically Stable Mobile Robots.”
- 2015 **Marquis Who’s Who in America**.
- 2013-2014 **Donald L. and Rhonda Struminger Faculty Fellow** in Mechanical Engineering.
- 2013 **Best Paper Award**, *Robotics: Science and Systems (RSS)*
Paper: “Dynamics, Control and Planning for Cooperative Manipulation of Payloads Suspended by Cables from Multiple Quadrotor Robots.”
- 2012 **Travel Award**, *IEEE International Conference on Robotics and Automation (ICRA)*.
- 2011 **Cover Article**, *IEEE Control System Magazine (CSM)*
Paper: “Identification of a bipedal robot with a compliant drivetrain: Parameter estimation for control design.”
- 2007–2011 **Doctoral Fellowship**, *Dept. of Electrical Engineering and Computer Science*, The Univ. of Michigan, Ann Arbor
- 2010 **Technical Session Award**, *Engineering Graduate Symposium*, The Univ. of Michigan, Ann Arbor
- 2006 **Best Paper Award**, *IEEE Int. Conference on Robotics, Automation, and Mechatronics (RAM)*
Paper: “Localization of a Wireless Sensor Network with Unattended Ground Sensors and Some Mobile Robots.”

Publications

○ Publication Statistics:

<i>Books / Book Chapters</i>	2
<i>Refreed Journal Articles</i>	25 (+5 preprints)
<i>Refreed Conference Proceedings*</i>	91 (+4 preprints)
<i>Other Publications[#]</i>	23

○ Citation Statistics: (Google Scholar, August 2023)

<i>Total Citations</i>	7296
<i>h-index</i>	41
<i>i10-index</i>	87