Leading the World in Personal and Social Robotics Research and Innovative Applications

Strategic research is at the heart of the Institute for Robotics and Intelligent Machines (IRIM). Emphasizing personal and everyday robotics, as well as industry and defense automation, our researchers are defining the future role of robotics in society. Currently, our research focuses on six core areas: Artificial Intelligence & Cognition, Perception, Control, Mechanisms, Interaction, and Systems. The study of basic engineering problems in robotics is central to our work, but equally important is the integration of innovation and discoveries into practical systems and applications. The exceptionally high quality of our programs, faculty, and laboratories positions IRIM as an international leader in robotics research. Currently, Tech has more than 70 faculty members actively engaged in robotics.

Training the Next Generation of Robotics Researchers

Georgia Tech offers the first interdisciplinary Ph.D. degree program in robotics to students enrolled in a participating home school in either the College of Computing or the College of Engineering. A fully integrated and multidisciplinary experience, the program educates a new generation of researchers in the area of robotics who are prepared to be impactful contributors upon entering the high-tech workforce. IRIM serves as the flagship for Tech’s robotics efforts and therefore, has an integral relationship with the program with many IRIM faculty members serving as research advisors to students pursuing the robotics degree. The program includes both coursework and research with teaching needs served by faculty members in various units across campus.

Learn more @ phdrobotics.gatech.edu

Advancing Technology

Tremendous advancements in robotics technology have enabled a new generation of applications in fields as diverse as manufacturing, logistics, healthcare, and other commercial and consumer market segments. IRIM leverages the strengths and resources of research by reaching across traditional boundaries to embrace a multidisciplinary approach. Our faculty and staff are engaged in cross-campus partnerships that significantly increase opportunities for practical innovation that will be useful to society. This broad-based commitment to robotics is evident in more than thirty Georgia Tech laboratories performing robotics-related work. The potential applications for robotics are wide ranging, and our path to discovering those applications is equally inclusive.
LEADERSHIP

Henrik I. Christensen
Executive Director

Ayanna M. Howard
Associate Director of Research

Frank Dellaert
Associate Director of Education

Gary V. McMurray
Associate Director of Industry

FACULTY

College of Architecture
Gil Weinberg
Music

College of Computing
Ronald C. Arkin
Interactive Computing
Tucker Balch
Interactive Computing
Henri Ben Amor
Interactive Computing
Aaron Bobick
Interactive Computing
Byron Boots
Interactive Computing
Henrik I. Christensen
Interactive Computing
Frank Dellaert
Interactive Computing
Irfan Essa
Interactive Computing
Ashok K. Goel
Interactive Computing
Alexander G. Gray (Adjunct)
Computational Science & Engineering
Rebecca E. Grinter
Interactive Computing
Charles Isbell, Jr.
Interactive Computing
C. Karen Liu
Interactive Computing
Cedric Pradalier (GT Lorraine)
Interactive Computing
James Rehg
Interactive Computing
Mark O. Riedl
Interactive Computing
Thad E. Starner
Interactive Computing
Andrea L. Thomaz
Interactive Computing

College of Engineering
Wayne J. Book
Mechanical Engineering
Yong K. Cho
Civil & Environmental Engineering
Stephen P. DeWeerth
Biomedical Engineering
Magnus Egerstedt
Electrical & Computer Engineering
Karen M. Feigh
Aerospace Engineering
Ayanna M. Howard
Electrical & Computer Engineering
David L. Hu
Mechanical Engineering
Eric N. Johnson
Aerospace Engineering
Charles C. Kemp
Biomedical Engineering
Kok-Meng Lee
Mechanical Engineering
Harvey Lipkin
Mechanical Engineering
Steven M. Potter
Biomedical Engineering
J. V. R. Prasad
Aerospace Engineering
Spyros Reveliotis
Industrial & Systems Engineering
Jonathan Rogers
Mechanical Engineering
Nader Sadegh
Mechanical Engineering
Jeff S. Shamma
Electrical & Computer Engineering
Evangelos Theodorou
Aerospace Engineering

College of Sciences
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Physics
Wendy A. Rogers
Psychology
M. Shino Shinohara
Applied Physiology
Randy D. Trumbower
Applied Physiology

Ivan Allen College of Liberal Arts
Ivan Allen College of Liberal Arts

Enterprise Innovation Institute
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Stephen B. Balakirsky
ATAS Lab
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Thomas R. Collins
Electronic Systems Lab
Wayne Daley
Food Processing Technology Division
Donald D. Davis
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Autonomous Systems
Michael E. West
Electronic Systems Lab

ATAS Lab is the Aerospace, Transportation & Advanced Systems Lab