

INSTITUTE FOR PEOPLE AND TECHNOLOGY

Shaping the future of human-centered systems, environments and technologies to promote fulfilling, healthy and productive lives.



CREATING THE NEXT®



www.ipat.gatech.edu



This publication is printed on paper that is produced with recycled material. Georgia Tech is committed to environmental sustainability. Please recycle this publication.

Copyright 2019 • Georgia Institute of Technology

» INSTITUTE FOR PEOPLE AND TECHNOLOGY



The Institute for People and Technology (IPaT)

The Institute for People and Technology (IPaT) connects industry, government and nonprofit leaders with Georgia Tech researchers to maximize the societal impact of the Institute's research in Lifelong Health and Well-Being, Smart Cities and Inclusive Innovation, Platforms and Services for Socio-Technical Systems, and Shaping the Human Technology Frontier. The convergence of people and technology is revolutionizing these sectors, and IPaT brings together the right people and processes at the right time to transform blue sky ideas into real-world solutions. Interdisciplinary teams of researchers, scientists, designers, and engineers are collaborating with experts from every field of study to develop technologies that empower people from all walks of life. For us, success is defined through the expansion of fundamental knowledge and the integration of research results from the lab to real-world use.

OUR CORE VALUES

One GT: We will operate collaboratively by sharing knowledge and resources, all for the greater good of Georgia Tech.

Trusted Partner: We will be transparent, meet deadlines, and work together to enhance and grow valuable relationships on and off campus.

Innovation: We will support a culture of creativity, thought leadership and boundary-pushing ideas, and be unafraid of failure.

Diversity: We will recognize, respect, and embrace our individual differences while exploring how these differences positively impact IPaT as a whole.

SHAPING THE FUTURE OF HUMAN-CENTERED SYSTEMS, ENVIRONMENTS AND TECHNOLOGIES

» Lifelong Health and Well-Being

From pediatrics to aging, IPaT's continuum of healthcare research is working to promote and enable vibrant and lifelong physical and mental health. Accomplished scholars and clinicians work together to transform healthcare delivery systems by creating novel and easily accessible health and wellness technologies. IPaT has led new breakthroughs in health information technology, approaches for increasing patient engagement and treatment adherence, clinical process improvements, and new healthcare delivery knowledge.

» Smart Cities and Inclusive Innovation

IPaT's work in this area focuses on the daily lives of communities – how they live, work and play. We are finding innovative approaches to shaping sustainable cities with research that thinks globally, while acting locally. IPaT is examining the transformative role of tech nology, transportation, civic engagement, disaster recovery and economic opportunities.

» Platforms and Services for Socio-Technical Systems

Through our socio-technical systems research, IPaT is merging physical and digital worlds with complex data analytic and communication capabilities. We are building new network infrastructure technologies with the goal of creating connected systems that support communities. IPaT leverages expertise across Georgia Tech's colleges and schools and partner institutions to understand and enable fundamental change of complex enterprise systems.

» Shaping the Human Technology Frontier

IPaT is shaping the human technology frontier by augmenting human capabilities at every level. We're exploring new ideas in user experiences that foster creativity, stimulate learning and enable productive collaboration. Through this initiative, we're researching and developing novel wearable computing, assistive, augmented reality, and gaming technologies.

CONVERGENCE OF PEOPLE AND TECHNOLOGY

IPAT RESEARCHERS

IPaT represents nearly 200 academic and applied researchers covering from a broad diversity of academic disciplines. Our researchers come from all six Georgia Tech colleges as well as the Georgia Tech Research Institute, the Enterprise Innovation Institute, and the Office of Information Technology.

STUDENTS

Talented Georgia Tech students at all levels and disciplines are at the heart of many IPaT projects. Each semester, students in Atlanta and at Georgia Tech-Lorraine collaborate with industry and government partners, faculty, and the startup community through the Convergence Innovation Competition (cic.gatech.edu). IPaT's Research Network Operations Center (GT-RNOC) connects students and partners across the state and around the world through professional education, startup communities in Atlanta and Savannah, and a new study abroad program in Panama, one of the world's fastest-growing economies.

WORKING WITH US

Government and industry partners engage with Georgia Tech for a variety of purposes—from basic and applied research to licensing and commercialization to recruiting and training—and do so in a variety of ways.

IPaT serves as an excellent starting point for any organization interested in working with Georgia Tech to understand and design for complex socio-technical systems. Government agencies and industry work with us to connect with a large portfolio of academic and applied research programs, to create and use novel research laboratories, to interact with Georgia Tech students, and to collaborate with other executives and influencers.



Convergence Innovation Competition



Georgia Tech augmented reality application for STEM education

OUR RESEARCH THROUGH A "3T" APPROACH

Transdisciplinary Research

IPaT consolidates advances in system science and engineering, management and policy, information technology, and human-centered design.

Translational Impact

IPaT deploys living laboratories, testbeds and data repositories and services to facilitate the translation of research findings to practical applications.

Transformational Leadership

IPaT creates innovation crossroads for researchers, industry partners, government partners, and other stakeholders to meet and develop transformative solutions for complex social challenges.



THE MYJOURNEY COMPASS TABLET PROGRAM HELPS TO PERSONALIZE CANCER NAVIGATION FOR PATIENTS



RESEARCHERS ARE USING THE IEAT APPLICATION TO TREAT CHILDREN WITH FEEDING DISORDERS



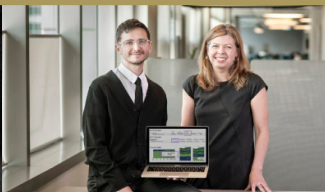
RESEARCHERS HAVE DEVELOPED REAL-TIME DISPATCHING FOR THE ATLANTA STREETCAR



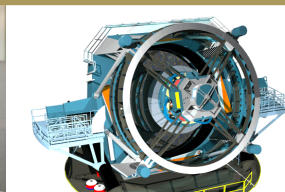
RESEARCHERS ARE EXAMINING CHILDREN'S MEDICAID CLAIMS TO COMPARE COST DIFFERENCES FOR DIVERSE PATIENTS



FIDO IS A WEARABLE COMPUTER TO HELP ASSISTANCE DOGS COMMUNICATE WITH THEIR HANDLERS



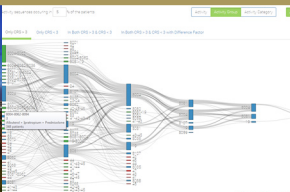
RESEARCHERS ARE DIGITIZING AND MIGRATING CITY BUDGET DATA FROM OBSOLETE COST DIFFERENCES FOR SYSTEMS



ATLANTICWAVE SDX ALLOWS SCIENTISTS TO SHARE LARGE DATASETS WITHOUT COMPROMISING INTERNET SPEED



THE COMMUNITY ENGAGEMENT PLAYBOOK GUIDES CITY OFFICIALS AND COMMUNITY ADVOCATES ON PROJECT PLANNING



USING PEDIATRIC PATIENT DATA, RESEARCHERS DEVELOPED A VISUAL ANALYTIC TOOL THAT REVERSE-ENGINEERS HEALTHCARE FLOW PROCESSES



THE CATCH-UP IMMUNIZATION SCHEDULER USES BIRTHDATE AND VACCINATION HISTORY TO AUTOMATICALLY CREATE A VACCINATION SCHEDULE

INSTITUTE FOR PEOPLE AND TECHNOLOGY

75 5th St NW, 6th Floor, Suite 600
Atlanta, GA, 30308
404-894-4728
ipat.gatech.edu

CONTACT US TODAY TO FIND OUT HOW YOU CAN GET INVOLVED.