

PERCEPTUAL SCIENCE GROUP



Founded in 1994, the Perceptual Science Group at MIT CSAIL does research in human visual perception, machine vision, image processing, and human-computer interaction.

Principal Investigators

Edward Adelson
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Ruth Rosenholtz
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MIT CSAIL

Location:

The Perceptual Science group is part of CSAIL and located in the Stata Center, 32 Vassar Street, Cambridge, MA 02139

Website:

<http://persci.mit.edu>

Research Vision

The Perceptual Science Group at MIT CSAIL does research in human vision, machine vision, human-computer interaction, and touch sensing for robotics. Both the Adelson Lab and the Rosenholtz Lab are part of the Computer Science and Artificial Intelligence Lab (CSAIL), located in the Stata Center.

Areas of Research

- Peripheral Vision
- Visual clutter
- Perception for driving
- Perceptually-based user interface and information visualization design
- Artificial tactile sensing
- Robotic manipulation

Research Activities

- Discussing the visual experience and associating the visual and tactile properties of physical materials
- Understanding and modeling visual perception and its applications

Industry Applications

- Healthcare
- Robotics
- UI/UX design
- Computer Science
- Transportation

“Robotics is really a terrifically exciting place to be working right now because you can just begin to see the potential, but you can also see there’s so much more to be done.”

Edward Adelson, MIT CSAIL



In the News

- Robotic gripper with soft sensitive fingers developed at MIT can handle cables with unprecedented dexterity. [MIT NEWS](#)
- MIT professor Edward Adelson was awarded the 2020 KenNakayama Medal from the Vision Sciences Society for Excellence in Vision Sciences. [MIT NEWS](#)
- The proprietary technology that was invented at the Massachusetts Institute of Technology provides extremely detailed and rapid surface measurements and robotic sensing capabilities writes [BusinessWire](#)

Faculty

Edward Adelson
Ruth Rosenholtz

Postdoctoral Scholars

Vasha DuTell

Graduate Students

Shaoxiong Wang
Branden Romero
Megha Tippur
Sandra Liu
Yuxiang Ma

MEng Students

Anne Harrington