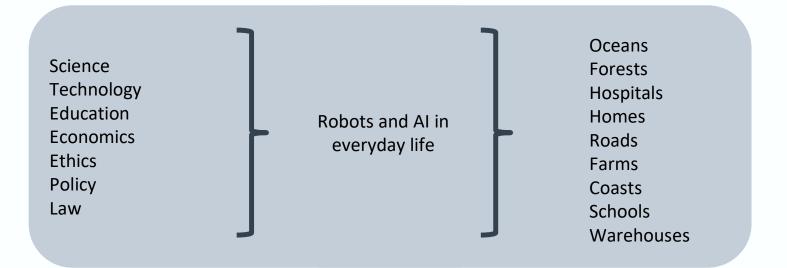


Robotics and AI at Oregon State University: Vision

Create robotics and AI solutions with positive impact on society





Robotics and AI at OSU: What enables our Vision What's our competitive advantage?

Unencumbered by the past:

Envision robotics and AI of 2030, not 2000

Dynamic, world class faculty

Talented, bright students

Strong "consumer" base: oceanography, forestry, ag sci.

45+ Faculty

- Robotics
- Artificial Intelligence
- Cybersecurity
- Sensors

25+ Faculty

- Oceanography
- Forestry
- Ag Science
- Veterinary Med
- Engineering



200+ Graduate Students

- Robotics (~100)
- AI (~100)

1000+ Undergraduates

Robotics and AI at OSU: What enables our Vision What's our competitive advantage?

Unencumbered by the past: Envision robotics and AI of 2030, not 2000

Dynamic, world class faculty

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Strong "consumer" base: oceanography, forestry, ag sci.

Collaborative OSU culture



CoRIS Institute: Study Full Impact of Technology

Collaborative Robotics and Intelligent Systems (CoRIS) Institute

Research

Education

Societal Impact



CoRIS Institute: Research

Collaborative Robotics and Intelligent Systems (CoRIS) Institute

Research

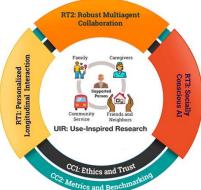
DARPA: Explainable Al (Oregon State, Lead) 2017-2023 NSF Al Institute: AgAID (Washington State, Lead) 2021-2026

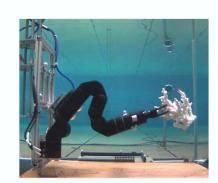
sonalized Il Interaction

NSF AI Institute: AI-Caring (Georgia Tech, Lead) 2021-2026

ONR: Underwater autonomy & manipulation (2019-2026)









CoRIS Institute: Education

Collaborative Robotics and Intelligent Systems (CoRIS) Institute

NSF site for Robotics:
Research Experiences for
Undergraduates (REU)
2014-now: ~200 students

Robotics Club: 400+ students
Al club: 180+ students

(1st place International Mars Rover Competition)

~100 undergrad researchers

Capstone in AI & Robotics

Education

3rd Robotics PhD program in US (2014)

400-500 applications

1st Artificial Intelligence PhD program in US (2021)

300-400 applications



CoRIS Institute: Societal Impact

Collaborative Robotics and Intelligent Systems (CoRIS) Institute

Impact: Robots without Borders: NSF project on deploying robots for

treating Ebola

Ethics: AI-CARING NSF Institute: Double fiduciary duty of AI systems in

extended elder care

Regulation: Inform FAA on integrating UAS to national airspace

Education: Introduce "Robotics and Society" course into curriculum

Policy: Sponsor and organizer for "National Robotics Roadmap 2.0"

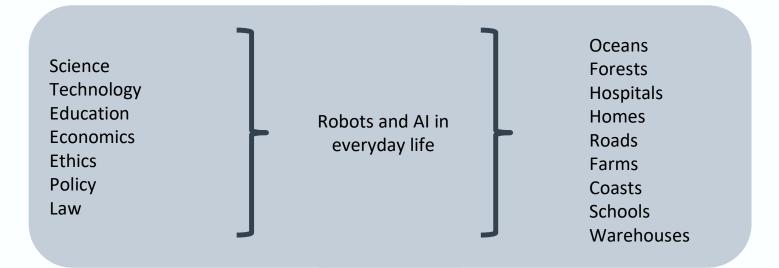
Law: Theory of Fault for Autonomous Systems (in Scholarly Commons Boston School of Law)

Societal Impact



Robotics and AI at Oregon State University

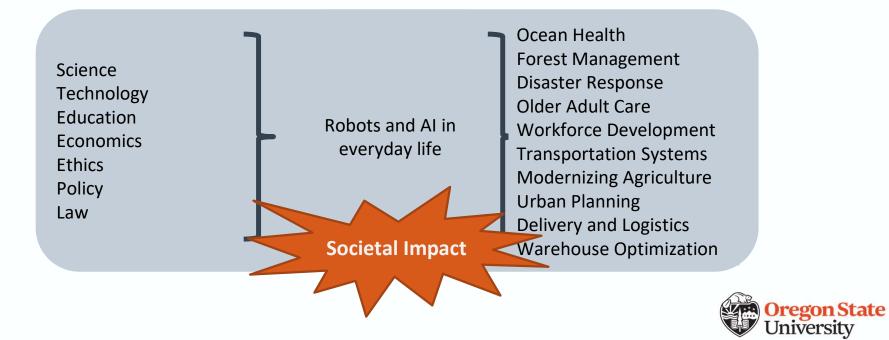
Create robotics and AI solutions with positive impact on society





Robotics and AI at Oregon State University

Create robotics and AI solutions with positive impact on society



Robotics and AI at Oregon State University: Next Steps

Jen-Hsun and Lori Huang Collaborative Innovation Complex (to open 2025)

Thanks to a donation from Jen-Hsun and Lori Huang, OSU will be home to the fastest supercomputers on the west coast

University of Florida received a similar gift from NVIDIA



Strong partnership between University and state of Florida

Tremendous opportunity for partnership in Oregon to increase support for AI, robotics, and semiconductor industries.



GLOBAL FUTURES FORUM

SAVE THE DATE

April 12, 2024

Global Futures Forum: Artificial Intelligence

Join us for the inaugural Global Futures Forum and celebrate the program launch of the Jen-Hsun and Lori Huang Collaborative Innovation Complex.

The Forum will include a conversation with Jen-Hsun Huang, Founder and CEO of NVIDIA, and OSU President Jayathi Y. Murthy.

For more information, please contact OSU.Provost@oregonstate.edu or visit this

site: https://leadership.oregonstate.edu/provost/global-futures-forum.





OSU AI/Robotics Research Partners

