



RICE UNIVERSITY

Ken Kennedy Institute

Responsible AI and Computing for Global Impact

Ken Kennedy Institute

at Rice University

Responsible AI & Computing for Global Impact

OUR IMPACT

27

Large-Team
Proposals and
Pre-Proposals
Submitted Annually

for a Total of

\$198M

100+

Externally-Funded
Projects Annually

1,000+

Annual Attendees
at Conferences on
AI & Computing
for Health, Energy

315

Members &
Affiliates

10+

Annual Research
Workshops

Funding

13

Interdisciplinary
Research Groups

Directly Supporting

62

Faculty Scholars

\$2M in Fellowships to **232**
Graduate Students at Rice University
since 2001

35

NSF CAREER
Awards

64

Highly-Cited
Members
(h-index > 30)

ABOUT THE INSTITUTE

The Ken Kennedy Institute at Rice University fosters world-class foundational and use-inspired research in AI and Computing and enables its transformative use across diverse disciplines to solve global challenges, driven by the highest ethical principles. We aim to position Rice at the forefront of Responsible AI with an emphasis on health, urban communities, and resilient futures.



Advancing the Foundations of AI & Computing
With Unconventional Research



Transcending Boundaries Through
Interdisciplinary Collaboration



Championing Responsible AI
For Societal Impact

The Institute is at the forefront of foundational research and discovery, with key initiatives that connect leading minds to build a global community around AI & Computing and invest in next-generation innovation.

- **Igniting Innovation:** We establish and fund research thrusts that cross departmental lines and expand opportunities for external partnerships.
- **Convening Global Expertise:** We cultivate a vast, vibrant intellectual community for collaboration through research forums, conferences, and distinguished lectures.
- **Investing in Future Talent:** We support early-stage multidisciplinary research through fellowships, postdocs, and assistantships.

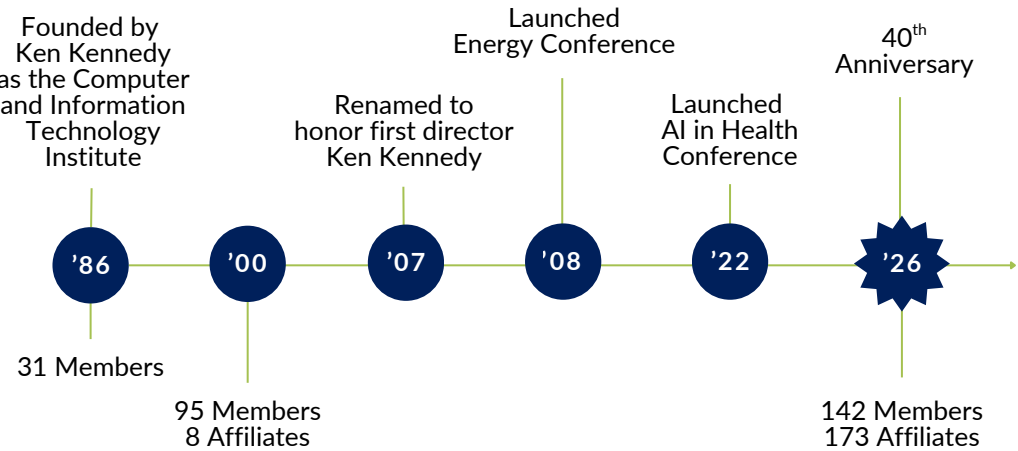
Lydia E. Kavraki
Director

Lydia Kavraki

David V. Pynadath
Executive Director
for Research Initiatives

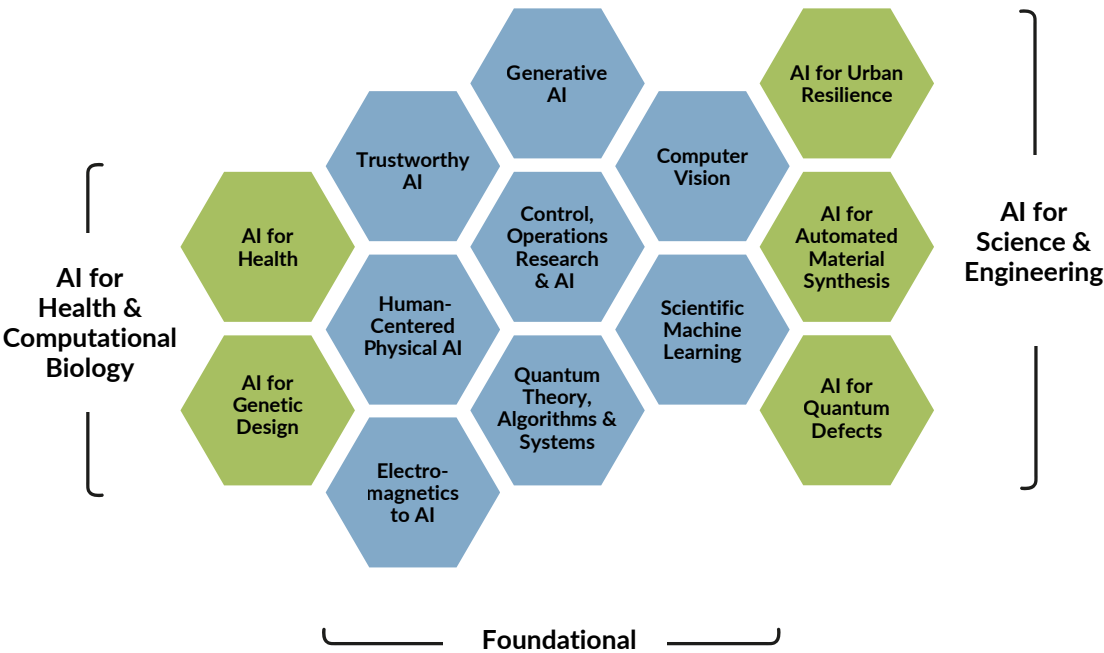
David Pynadath

Ken Kennedy Institute | Forty Years at Rice University



KEN KENNEDY INSTITUTE

RESEARCH MAP



Foundational Research

Advancing Foundations of AI & Computing

Trustworthy and Responsible AI | Generative AI | Human-AI Teaming | Physical AI and Robotics | Learning, Control, and Optimization | Sensing | Physics-Based AI | Quantum Computing | High-Performance Computing | Systems for AI

Use-Inspired Research

Real-World Applications with Societal Impact

AI for Computational Biology | Design of Therapeutics | Genomics | Disease Tracking, Diagnosis, and Treatment | AI for Urban Resilience | Climate and Infrastructure Risk Assessment | Flooding and Severe Weather Response | AI for Advanced Materials | Policy

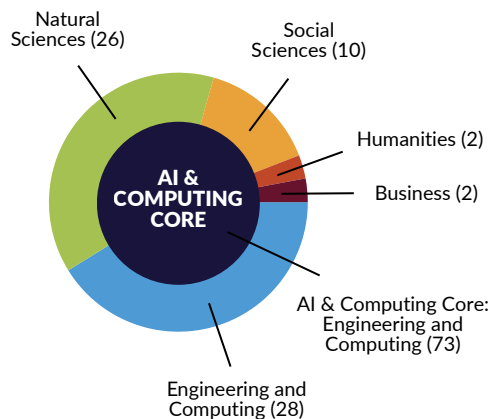
COLLABORATIVE RESEARCH

The Ken Kennedy Institute is a nexus for scientific discourse at Rice University. We bring together **142 faculty members** with active research in AI & Computing across 5 schools and 21 departments. Members lead and participate in the Institute's key initiatives and make up our research map.

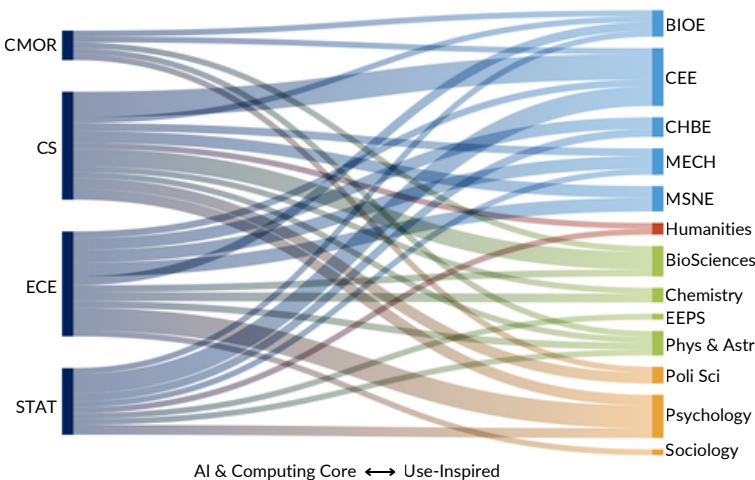
These members include **73 researchers** who comprise our AI & Computing Core. They primarily come from four departments in Rice's renowned George R. Brown School of Engineering and Computing:

- Computational applied mathematics and operations research (CMOR)
- Computer science (CS)
- Electrical and computer engineering (ECE)
- Statistics (STAT)

The Institute also has **173 affiliates** at Rice who have an interest in using AI & Computing for their work or are seeking collaborators with computational expertise.



Supporting Research Excellence Across Rice University



Cross-Collaboration:

The chart illustrates the number of cross-collaborative proposals submitted by teams of both AI & Computing Core and Use-Inspired members.

Data for all member proposals since 2011 are listed below.

55 Cross-Collaborative Proposals Submitted

13 Awarded
Totaling \$79M

300 Multi-Departmental Proposals Submitted

88 Awarded
Totaling \$361M

662 Total Proposals Submitted

218 Awarded
Totaling \$543M



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