

ISTAS 2025 AI EVOLUTION & REVOLUTION

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Treasurer, IEEE Oakland East Bay Section



ISTAS25
AI EVOLUTION & REVOLUTION
SANTA CLARA, CALIFORNIA

AI EVOLUTION & REVOLUTION

AI ADOPTION AND THE ACCELERATING SOCIETAL IMPACTS

- ▶ **Dates:** September 10-12, 2025
[Plus high school and above, YP Involvement – To be announced soon!]
 - Main Sessions Sept 10-12, dinner Sept 10 and social events
 - Tours and Social events evening of Sept 12 or 13
- ▶ **Location:** Innovation Center, Santa Clara University campus, Santa Clara, CA
- ▶ **Format:** Hybrid, Seminars, Workshops, Panels, Tutorials, Hackathons
- ▶ **STEM opportunities for students in connection with the outreach done with the USS Hornet Museum in Alameda, Cal State East Bay and Santa Clara University.**

AI EVOLUTION & REVOLUTION

THE VENUE AND INFO/SIGHTS WITHIN 50 MILES

- ▶ **Location:** Santa Clara University campus, Santa Clara, CA – previous host to successful GHTC 2022 – modern classrooms/AV and room for breakouts
- ▶ **Lodging:** *Sonesta Simply Suites*, Santa Clara, code [ISTAS25](#) - 2 blocks from SCU
- ▶ **San Francisco:** Cable Cars, Fisherman's Wharf, shows, fine dining, Golden Gate Bridge, Presidio, SFMOMA, Chinatown, shopping and tours
- ▶ **Santa Cruz:** beaches, surfing, hiking, music, and dining
- ▶ **Wine Tasting** of several local appellations: local vineyards or Napa excursion
- ▶ **Stanford and UC Berkeley Universities**
- ▶ **Computer History Museum Mountain View:** artifacts, IEEE Milestones collection
- ▶ **Los Gatos:** dining, hikes, shopping and local color

ISTAS 2025

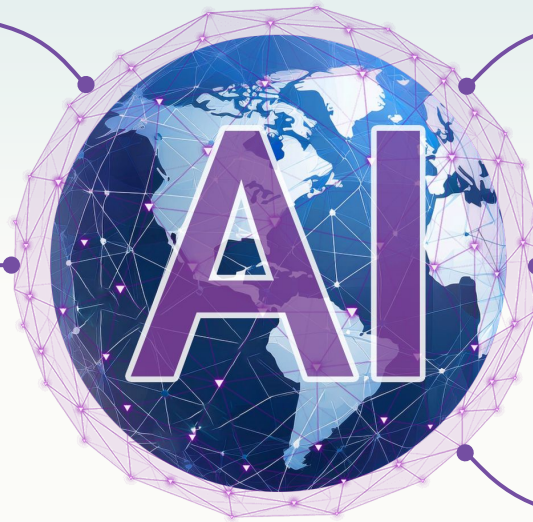
AI EVOLUTION & REVOLUTION



**ETHICS AND
GOVERNANCE**



**HEALTHCARE AND
BIOMEDICINE**



**FUTURE OF WORK
AND INDUSTRY**



**ENVIRONMENTAL
SUSTAINABILITY**



**CULTURE, ARTS
AND SOCIETY**



AI EVOLUTION & REVOLUTION

THEMES AND VOLATILITY

Our themes and the underlying topic suggestions represent our best information today about where Artificial Intelligence is likely to make an impact in the next few years and what our priorities ought to be for discourse. Emphasis will be on the “work in progress” nature of utilizing AI and the opportunities for sharing and collaboration.

This is a moving target, and the likelihood is high that topics will change in the next 3 months. Input and suggestions to **Ahmed Amer** or **Sanjay Samuels**, our Technical Co-Chairs, are welcome as we refine our program.

Student submissions are welcome at this conference - **Prasanta Ghosh** is leading a special track supporting them. We will be soliciting assistance and mentors for these undergrads at the program evolves.

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ETHICS AND GOVERNANCE TRACK

1. Ethical frameworks for AI development and deployment
2. AI regulation, policy, legal issues at national and international levels
3. AI in Law Enforcement and Surveillance
4. Transparency and explainability in AI systems
5. AI privacy concerns
6. Balancing innovation with responsible AI practices
7. Human oversight and management



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HEALTHCARE/BIOMEDICINE TRACK

1. AI-driven diagnostic tools and their impact on healthcare delivery
2. Personalized medicine and AI
3. AI in drug discovery and development
4. Ethical considerations in AI-assisted medical decision-making and caregiving
5. AI's role in addressing global health challenges



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FUTURE OF WORK AND INDUSTRY TRACK

1. **Who's in charge? Managing AI**
2. **Impact of AI on job markets and employment trends**
3. **AI-human collaboration in the workplace**
4. **AI in recruitment and human resources**
5. **Governance and legal implications**
6. **Economic implications of widespread AI adoption**
7. **Reskilling and education for an AI-driven economy and business climate**
8. **Infrastructure impact and change requirements**



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ENVIRONMENTAL SUSTAINABILITY TRACK

1. AI applications in climate change modeling and mitigation
2. Smart cities and AI-driven resource management
3. AI in renewable energy optimization
4. Environmental monitoring and conservation using AI
5. Ethical considerations in using AI for environmental decision-making
6. LLM/Data storage energy usage and design practices to mitigate



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CULTURE, ARTS AND SOCIETY TRACK

1. AI's impact on social interactions and relationships
2. AI in education and learning
3. AI-generated art, music, and literature
4. AI and its effects on democracy and public discourse
5. Cultural differences in AI perception and adoption
6. AI, misinformation, and the public trust
7. AI in Social Media



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YOUTH/STEAM WORKSHOP IDEAS Being Investigated

1. Possible IEEE REACH interactive day at a local museum Sept 7
2. Build a Chatbot Exercise
3. AI in Games Interactive Session
4. Ethics in AI Discussion
5. Use tools like DeepArt or Magenta to create AI art
6. AI in Healthcare Activity: design an AI solution for a health problem
7. Voice Assistants Workshop to Create a basic voice command system
8. Climate Change- Analyze climate datasets using machine learning
9. Group project: design an AI-based solution for an environmental issue

IEEE International Symposium on Technology and Society

“AI Evolution and Revolution”

September 10-12, 2025

Hosted by Santa Clara University, Santa Clara, California, USA

Thematic Areas:

1. Ethics and Governance
2. Healthcare & Biomedicine
3. Future of Work & Industry
4. Environmental Sustainability
5. Culture, Arts & Society
6. Student interactive sessions

Call For Papers [includes Students]

Submission Deadlines:

May 16, 2025

May 16, 2025

June 15, 2025

July 11, 2025

Panel Session and Tutorial
Proposals due

Papers/Poster Abstracts due

Acceptance/rejection notices

Camera Ready abstracts due



ISTAS25 TECHNICAL PROGRAM



	WEDNESDAY, SEPT 10	THURSDAY, SEPT 11	FRIDAY, SEPT 12
8:30 AM	Keynote	Panel 2 The Importance of Failing	Keynote
9:30 AM	Panel 1 The Emerging Scope of AI		
10:00 AM	Break	Break	Break
	Track 1Track 2Track 3	Track 1Track 2Track 3	Track 1Track 2Track 3
10:30 AM			
10:45 AM	ISTAS25 PRESENTATIONS	ISTAS25 PRESENTATIONS	ISTAS25 PRESENTATIONS
11:00 AM			
11:15 AM		Keynote Kathleen Kramer - 2025 IEEE President	
11:30 AM			
12:00 PM	Lunch	Lunch	Lunch
	Track 4Track 5Students	Track 4Track 5Students	
1:30 PM			Guest Talk
1:45 PM	ISTAS25 PRESENTATIONS	ISTAS25 PRESENTATIONS	Panel 3 Revolution and Society
2:00 PM			
2:15 PM			
2:30 PM			Guest Talk Containing the Power of Technology
3:00 PM	Guest Talk	Guest Talk	
3:30 PM		Guest Talk	
3:45 PM	Group Photo		Break
4:00 PM	Break	Free Time	Announcing ISTAS26 & Concluding Remarks
4:30 PM			
4:45 PM	Student Presentations		
5:30 PM			
6:00 PM	Diner	Diner	Adjourn
7:00 PM			

TRACKS

1. Ethics & Governance
2. Health Care & BioMedicine
3. Environmental Sustainability
4. Future of Work & Industry
5. Culture, Arts & Society

Call For Papers Flyer






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Chair:
 Maureen Vavra
 IEEE SCV-OEB SSIT Chair
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Technical Program Co-Chair:
 Ahmed Amer
 IEEE SCV-OEB
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 tpc-chair@istas25.org

Technical Program Co-Chair:
 Sanjay Samuel
 IEEE Chair Seattle Section



For more information on the topics of interest, to know how to sponsor and any other questions related to the conference, visit our website:
<https://attend.ieee.org/istas-2025>

ISTAS25 Website



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10-12 September 2025
 (live and virtual event)

Conference Areas of Interest

The ISTAS25 conference program will explore the far-reaching implications of technological advancements on our society. The overall conference theme is **AI EVOLUTION & REVOLUTION**, and several key sub-themes will be featured in the program:



ETHICS AND GOVERNANCE



FUTURE OF WORK AND INDUSTRY



HEALTHCARE AND BIOMEDICINE



ENVIRONMENTAL SUSTAINABILITY





CULTURE, ARTS AND SOCIETY



Registration Opens March 31, 2025

Early registration opens March 31 at discounted rates and runs through July 31. Regular rates take effect August 1 and continue through September 9.

IMPORTANT DATES

May 2:
Paper Abstracts Due

July 11:
Final Camera-Ready Paper Deadline

July 31:
Early Registration

Conference Program Overview Will Be Available March 12, 2025

At that time, browse the **ISTAS25 Program Overview** to see when keynotes and special sessions will take place. Full details about Paper tracks will be available in mid-August.

Questions and Comments?

Contact me at:

chair@istas25.org
(925) 683-5667 c/t



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