



IEEE AI Coalition Collaborative Opportunities

Christine Miyachi, Chair – IEEE Future Directions Committee

TAB Presidents' Forum

16 February 2024



AI Coalition

“An alliance for combined action”

- Classify and index AI work across IEEE into one area, and identify any missing gaps
- Review how IEEE can use AI to enhance our services
- Leadership team formed and held four meetings
- Forming steering committee, with in-person meeting in Orlando
- Create schedule and plan for larger workshop in Boston, spring of 2024
- Present at Presidents’ Forum, 16 February 2024

□ Initial List of Key Areas (preliminary):

- Machine Learning
- Deep Learning
- Robotic / Process Automation (RPA)
- NLP (Natural Language Processing), LLM (Large Language Models)
- AI Hardware
- Robotic Hardware
- Algorithms
- Data
- Digital / Cognitive Twins
- Image / Signal Understanding and Recognition
- AI Ethics
- AI Accuracy and Trust
- Standards in AI
- AI in:
 - Space, non-terrestrial AI
 - Healthcare
 - Retail
 - Manufacturing
 - Transportation
 - Finance

AI Coalition - continued

Leadership team

Christine Miyachi
FDC Chair
Senior Software Engineering Manager,
Microsoft

Jim Keller
Past President Computational Intelligence
Society,
University of Missouri Professor Emeritus

Grace Lewis
Computer Society
Principal Researcher, SEI at
Carnegie Mellon University

Stefan Mozar
Past Ad Hoc Chair for Digital Reality,
Past President IEEE Consumer Technology
Society

Jeewika Ranaweera
Metaverse Co-chair,
Principal Hardware Engineer, Oracle
(Retired)

Secure in &
outside IEEE
Experts /
Speakers

Be an
Evangelist for
AI @ IEEE

Assess how
IEEE uses AI

Curate website,
blogs, podcasts

Work Items

Engage social
media including
very active "AI"
Collabratec
community

Manage inventory
of existing activity
& what we should
be doing

AI Standards
Champion

Organize
workshop in
April / May



AI Coalition - Call to Action

Add your Society's/Council's perspective to the coalition

- ▶ We encourage all IEEE Societies/Councils to nominate a representative
 - Please use the QR code to access our nomination form, or visit <https://forms.gle/WmyfuvmSNL5UsorR8>
- ▶ Activities:
 - Ensure your S/C's efforts are cataloged and included
 - Help the Coalition identify gaps in coverage by IEEE
 - Steer the development of possible new activities



Nominate an S/C
representative