



2nd International Conference on

Next-Generation AI & Machine Learning

INSIGHTS • COLLABORATION • OPPORTUNITIES



Jay Lee

Distinguished Chair Professor
University of Maryland

Dan Roth

Chief AI Scientist
Oracle

Vipin Kumar

Regents Professor
University of Minnesota

Raymond Fu

Distinguished Professor
Northeastern University

Stephen Grossberg

Wang Professor
Boston University



November 02-04, 2026
Boston, MA



Holiday Inn Boston Hotel

30 Washington St, Somerville,
MA 02143



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Organized by:



WELCOME TO Nxt AI-2026

Welcome to **Nxt AI-2026**, a global platform designed to bring together leaders in artificial intelligence, emerging technologies, and digital innovation.

Following the success of our inaugural edition, we are expanding our conference agenda, speaker lineup, and international reach to create a more impactful and collaborative AI experience.

ABOUT Nxt AI:

Nxt AI is an international conference dedicated to advancing artificial intelligence through innovation, collaboration, and knowledge exchange.



CONFERENCE OVERVIEW

3-DAY
Event

HYBRID
Format

100+
Speakers

GLOBAL
Participation

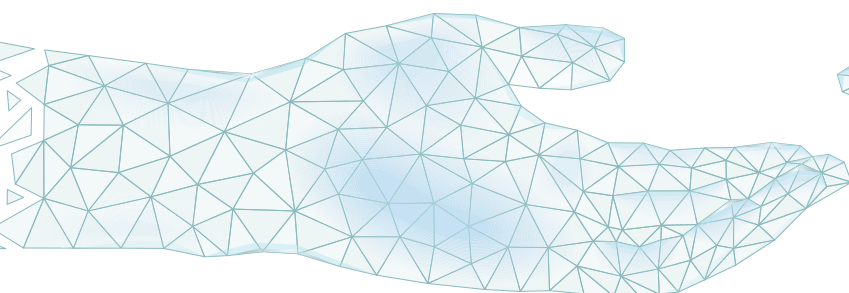
WE CONNECT

Academia

Industry

AI Researchers &
Innovators

Policymakers &
Technology Experts

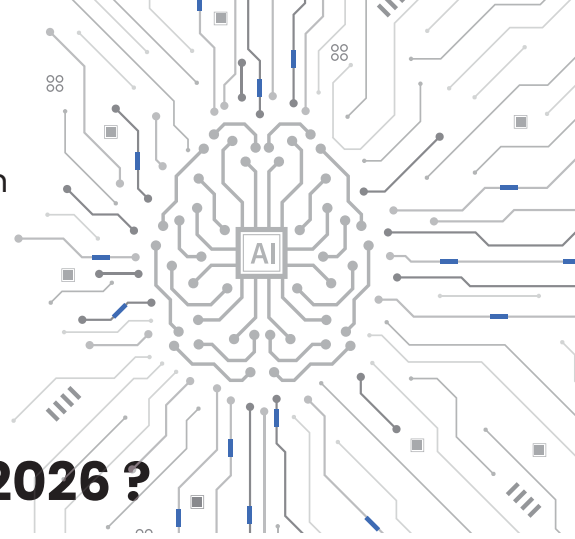


Nxt AI-2026

VISION & MISSION

To create a global ecosystem that accelerates innovation and adoption of Artificial Intelligence across industries.

- ◆ Foster collaboration
- ◆ Advance AI innovation
- ◆ Enable knowledge sharing
- ◆ Support next-generation intelligent solutions



WHY ATTEND NXT AI-2026 ?



Gain insights

from leading AI experts



Stay ahead

of emerging AI trends



Build global

partnerships and collaborations



Showcase

your research, solutions, and innovations

1 Before the Conference

- Submit:
 - a. Abstract / Session Proposal
 - b. Speaker Bio
 - c. Professional Headshot
 - d. Presentation Title
- Adhere to submission timelines
- Participate in promotional activities

2 During the Conference

- Deliver a high-quality, original presentation
- Engage with attendees through Q&A sessions and panel discussions
- Follow the conference code of conduct and professional standards

3 Content Guidelines

- Technical depth and industry relevance
- Original content and proper attribution
- Clear, data-driven insights and practical applications
- Real-world AI and business impact

4 Post-Conference

- Share presentation materials (optional)
- Participate in conference publications or proceedings
- Continue networking and collaboration opportunities

KEY HIGHLIGHTS



World-class AI speakers



Cutting-edge AI technologies and applications



Strong industry-academia collaboration

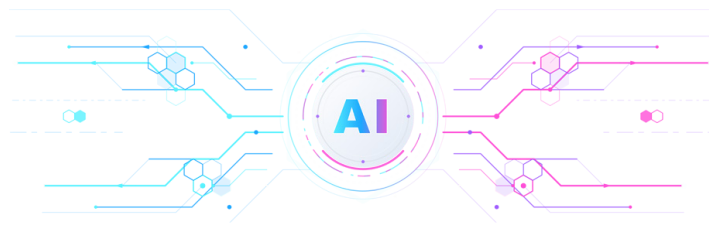


Research and publication opportunities

Nxt AI-2026

SCIENTIFIC TRACKS

Exploring the Future of Artificial Intelligence



1 GENERATIVE AI

Why This Matters Today

Generative AI is transforming how content, software, designs, and knowledge are created, enabling unprecedented levels of automation and creativity.

Real-World Relevance

- Rapid adoption across industries
- Increased productivity and innovation
- Growing enterprise investment in AI solutions

Focus at Nxt AI-2026

- ✓ Content and media generation
- ✓ Multimodal AI systems
- ✓ Enterprise generative AI applications

2 MACHINE LEARNING & DEEP LEARNING

Why This Matters Today

Machine Learning and Deep Learning remain the foundation of modern AI, powering intelligent systems across countless applications.

Real-World Relevance

- Data-driven decision making
- Advances in predictive analytics
- Growing demand for intelligent automation

Focus at Nxt AI-2026

- ✓ Advanced learning algorithms
- ✓ Neural network optimization
- ✓ Predictive modeling and analytics

3 AGENTIC AI

Why This Matters Today

AI agents are evolving from passive assistants into autonomous systems capable of reasoning, planning, and executing complex tasks.

Real-World Relevance

- Intelligent workflow automation
- Autonomous decision support
- Multi-agent collaboration systems

Focus at Nxt AI-2026

- ✓ Autonomous AI agents
- ✓ Multi-agent systems
- ✓ Agent orchestration and governance

4 AI APPLICATIONS

Why This Matters Today

Organizations are increasingly deploying AI solutions to solve practical challenges and create measurable business value.

Real-World Relevance

- Digital transformation initiatives
- Operational efficiency improvements
- Industry-specific AI adoption

Focus at Nxt AI-2026

- ✓ Enterprise AI deployment
- ✓ AI-driven business solutions
- ✓ Industry use cases and case studies

5 AI IN MEDICINE

Why This Matters Today

AI is revolutionizing healthcare by improving diagnosis, treatment planning, and patient outcomes.

Real-World Relevance

- Faster disease detection
- Personalized healthcare solutions
- Growing adoption of digital health technologies

Focus at Nxt AI-2026

- ✓ Medical imaging and diagnostics
- ✓ Clinical decision support systems
- ✓ AI-powered healthcare innovation

6 EXPLAINABLE & TRUSTWORTHY AI (XAI)

Why This Matters Today

As AI systems become more influential, transparency, fairness, and accountability are critical for responsible adoption.

Real-World Relevance

- Regulatory and compliance requirements
- Demand for trustworthy AI systems
- Increased focus on ethical AI practices

Focus at Nxt AI-2026

- ✓ Explainable AI techniques
- ✓ AI governance and ethics
- ✓ Bias detection and mitigation

7

ROBOTICS & EMBODIED INTELLIGENCE

Why This Matters Today

The integration of AI and robotics is enabling machines to interact intelligently with the physical world.

Real-World Relevance

- Industrial automation growth
- Advances in autonomous systems
- Expanding robotics applications

Focus at Nxt AI-2026

- ✓ Intelligent robotics
- ✓ Human-robot interaction
- ✓ Autonomous navigation and control

8

LARGE LANGUAGE MODELS (LLMs)

Why This Matters Today

Large Language Models are reshaping how humans interact with technology through advanced reasoning, communication, and content generation capabilities.

Real-World Relevance

- Enterprise AI assistants
- Knowledge management solutions
- Rapid growth in AI-powered applications

Focus at Nxt AI-2026

- ✓ LLM architectures and training
- ✓ Fine-tuning and optimization
- ✓ Enterprise LLM deployment

9

NATURAL LANGUAGE PROCESSING (NLP)

Why This Matters Today

NLP enables machines to understand, interpret, and generate human language, powering modern communication technologies.

Real-World Relevance

- Conversational AI adoption
- Multilingual communication needs
- Automated customer engagement solutions

Focus at Nxt AI-2026

- ✓ Language understanding models
- ✓ Conversational AI systems
- ✓ Information extraction and text analytics

10

AI IN CYBERSECURITY

Why This Matters Today

As cyber threats become more sophisticated, AI is playing a crucial role in threat detection, prevention, and response.

Real-World Relevance

- Rising cybersecurity risks
- Need for real-time threat intelligence
- Increasing complexity of digital environments

Focus at Nxt AI-2026

- ✓ AI-powered threat detection
- ✓ Security analytics and monitoring
- ✓ Cyber defense automation

11

ARTIFICIAL GENERAL INTELLIGENCE (AGI)

Why This Matters Today

AGI represents the pursuit of human-level intelligence, driving discussions around the future capabilities and impact of AI.

Real-World Relevance

- Long-term AI research initiatives
- Strategic implications for industries
- Global interest in advanced AI systems

Focus at Nxt AI-2026

- ✓ AGI research developments
- ✓ Safety and governance considerations
- ✓ Future directions of intelligent systems

12

ARTIFICIAL NEURAL NETWORKS & ARCHITECTURES (ANN)

Why This Matters Today

Innovations in neural network architectures continue to drive breakthroughs in AI performance, scalability, and efficiency.

Real-World Relevance

- Foundation of modern AI systems
- Increased computational capabilities
- Demand for more efficient models

Focus at Nxt AI-2026

- ✓ Advanced neural architectures
- ✓ Model efficiency and optimization
- ✓ Emerging AI framework innovations

"Each scientific track at **Nxt AI 2026** is carefully designed to address real-world challenges and opportunities in Artificial Intelligence—ensuring that discussions translate into actionable innovation and measurable impact."

CONFERENCE STRUCTURE

A Dynamic Platform designed to inspire, connect, and drive the future of AI

1

Plenary Sessions

- Delivered by globally recognized AI leaders
- Focus on emerging trends, strategic insights, and future directions of AI
- Opening and flagship sessions of the conference



2

Keynote Sessions

- High-impact, topic-focused presentations
- Delivered by leading experts from academia, industry, and technology organizations



3

Oral Presentations

- Selected abstracts from researchers, practitioners, and innovators worldwide
- 18–20 minute presentations followed by Q&A



4

Poster Presentations

- Emerging research, applications, and innovations in AI
- Interactive format encouraging discussion and networking



5

Networking & Collaboration

- One-to-one networking opportunities
- Industry roundtables
- Startup pitches and innovation showcases



Plenary & Keynote Speaker Profiles



Stephen Grossberg

Professor Emeritus of Cognitive and Neural Systems
Boston University
Boston, MA, USA

Biography: Dr. Stephen Grossberg is a world-renowned pioneer in artificial intelligence, neural networks, cognitive science, and computational neuroscience. His groundbreaking contributions have shaped the theoretical foundations of machine learning, adaptive systems, and intelligent behavior. Over several decades, he has developed influential models explaining learning, perception, attention, memory, and decision-making in both biological and artificial systems.

As the founder of Adaptive Resonance Theory (ART), Dr. Grossberg introduced fundamental principles that continue to influence modern AI, neural network architectures, and pattern recognition technologies. His interdisciplinary research has bridged neuroscience, mathematics, psychology, and artificial intelligence, inspiring generations of researchers and advancing our understanding of intelligent systems.

Dr. Grossberg's pioneering work remains highly relevant to contemporary developments in AI, including deep learning, autonomous systems, and the pursuit of more adaptive and trustworthy intelligent technologies.

Session Type: Plenary

Focus Area: Artificial Neural Networks, Cognitive Intelligence, Adaptive Resonance Theory (ART), Machine Learning Foundations, Computational Neuroscience



Raymond Fu

NEU, COE Distinguished Professor
Northeastern University
Boston, MA, USA

Biography: Dr. Raymond Fu is a distinguished researcher, educator, and innovator in artificial intelligence, machine learning, and intelligent systems. As a NEU, COE Distinguished Professor at Northeastern University, he has made significant contributions to advancing data-driven technologies, computational intelligence, and AI-enabled solutions for complex real-world challenges.

His research spans machine learning, predictive analytics, intelligent decision-support systems, and emerging AI applications, with a focus on bridging fundamental research and practical implementation. Through collaborations with academia, industry, and technology partners, Dr. Fu has helped drive innovation in intelligent systems and digital transformation initiatives.

A recognized leader in the field, Dr. Fu continues to advance the development of next-generation AI technologies while mentoring future researchers and contributing to the broader AI research community.

Session Type: Keynote Speaker

Focus Area: Machine Learning, Artificial Intelligence, Intelligent Systems, Predictive Analytics, AI Applications.



Sanjay Padhi

Head of AWS Research Initiatives, Amazon Web Services; Adjunct Professor
AWS, Brown University, CERN, UC San Diego (UCSD)
San Francisco, CA, USA

Biography: Dr. Sanjay Padhi is a leading expert in artificial intelligence, advanced computing, and research innovation, serving as Head of AWS Research Initiatives at Amazon Web Services and Adjunct Professor at Brown University. His work focuses on accelerating scientific discovery and technological advancement

Nxt AI-2026

through the application of AI, cloud computing, and large-scale data analytics.

With affiliations spanning AWS, Brown University, CERN, and UC San Diego, Dr. Padhi collaborates across academia, industry, and global research institutions to develop innovative solutions for complex scientific and technological challenges. His expertise encompasses machine learning, intelligent systems, cloud-enabled research infrastructure, and the practical deployment of AI at scale.

A recognized thought leader and advocate for interdisciplinary collaboration, Dr. Padhi has contributed to initiatives that bridge cutting-edge research with real-world applications. His work continues to drive innovation in Artificial Intelligence, digital transformation, and next-generation research ecosystems..

Session Type: Keynote Speaker

Focus Area: Artificial Intelligence, Cloud Computing, Research Innovation, Machine Learning, Large-Scale AI Systems, Scientific Computing



Jay Lee

Clark Distinguished Chair Professor and Director, Industrial AI Center
University of Maryland
College Park, MD

Biography: Dr. Jay Lee is a globally recognized pioneer in Industrial Artificial Intelligence, smart manufacturing, and predictive analytics. As the Clark Distinguished Chair Professor and Director of the Industrial AI Center at the University of Maryland, he leads cutting-edge research focused on transforming industries through intelligent systems, data-driven decision-making, and advanced automation technologies.

Widely known for his contributions to Industry 4.0 and AI-enabled manufacturing, Dr. Lee has developed innovative frameworks that integrate machine learning, digital twins, prognostics, and predictive maintenance to enhance operational efficiency and sustainability. His research has helped organizations leverage AI to improve productivity, optimize assets, and accelerate digital transformation across industrial sectors.

Through extensive collaborations with academia, industry, and government organizations worldwide, Dr. Lee continues to advance the adoption of Industrial AI and smart systems. His work is shaping the future of manufacturing, intelligent infrastructure, and next-generation industrial innovation.

Session Type: Keynote Speaker

Focus Area: Industrial AI, Smart Manufacturing, Industry 4.0, Predictive Analytics, Digital Twins, Intelligent Systems



David Stork

Adjunct Professor
Stanford University
Stanford, CA

Biography: Dr. David Stork is a renowned researcher, educator, and author whose work spans artificial intelligence, machine learning, computer vision, and the intersection of technology and human knowledge. As an Adjunct Professor at Stanford University, he has contributed extensively to advancing the understanding and application of intelligent systems across both academic and industry settings.

Throughout his career, Dr. Stork has been at the forefront of research in computer vision, pattern recognition, and AI-driven analysis. His interdisciplinary approach combines insights from computer science, mathematics, cognitive science, and data analytics to address complex challenges in image understanding, knowledge discovery, and intelligent decision-making.

An internationally recognized speaker and thought leader, Dr. Stork has authored numerous publications and has played a significant role in promoting innovation in Artificial Intelligence and related fields. His work continues to inspire researchers and practitioners exploring the future of intelligent technologies and their real-world applications.

Session Type: Keynote Speaker

Focus Area: Artificial Intelligence, Computer Vision, Machine Learning, Pattern Recognition, Cognitive Computing, Intelligent Systems



Dan Roth

Chief AI Scientist, Oracle
Eduardo D. Glandt Distinguished Professor
University of Pennsylvania
Philadelphia, PA

Biography: Dr. Dan Roth is a world-renowned leader in Artificial Intelligence, Natural Language Processing (NLP), and Machine Learning. As Chief AI Scientist at Oracle and the Eduardo D. Glandt Distinguished Professor at the University of Pennsylvania, he has played a pivotal role in advancing the development of intelligent systems capable of understanding, reasoning, and interacting through human language.

His pioneering research has significantly influenced the fields of Natural Language Understanding, Knowledge Representation, Information Extraction, and AI-driven decision-making. Dr. Roth's work has contributed to the development of scalable AI technologies that power applications across enterprise systems, digital assistants, search, and information management platforms.

A highly cited researcher and recognized thought leader, Dr. Roth has received numerous awards for his contributions to AI and computational linguistics. Through his leadership in academia and industry, he continues to drive innovation in trustworthy, scalable, and impactful Artificial Intelligence technologies.

Session Type: Keynote Speaker

Focus Area: Natural Language Processing (NLP), Large Language Models (LLMs), Machine Learning, Knowledge Representation, Intelligent Systems, Enterprise AI



Jordan Morrow

SVP, Data & AI Transformation, AgileOne
Founder & CEO, Bodhi Data
Torrance, CA

Biography: Jordan Morrow is an internationally recognized leader in data, analytics, and Artificial Intelligence transformation. As SVP of Data & AI Transformation at AgileOne and Founder & CEO of Bodhi Data, he helps organizations harness the power of data and AI to drive innovation, strategic decision-making, and business growth.

Widely known for his expertise in data literacy, AI adoption, and digital transformation, Jordan has worked with organizations across industries to develop data-driven cultures and unlock the value of emerging technologies. His thought leadership focuses on bridging the gap between technology and business, enabling leaders and teams to make informed decisions in an increasingly AI-powered world.

A sought-after speaker, author, and advisor, Jordan is passionate about empowering organizations to build sustainable competitive advantages through data intelligence and responsible AI implementation. His work continues to influence how enterprises approach data strategy, workforce readiness, and AI-driven transformation.

Session Type: Keynote Speaker

Focus Area: Data & AI Transformation, Data Literacy, Enterprise AI Adoption, Digital Transformation, Data Strategy, AI Leadership



Vipin Kumar

Regents Professor and William Norris Land Grant Chair
University of Minnesota
Minneapolis, MN

Biography: Dr. Vipin Kumar is a globally recognized leader in Artificial Intelligence, Machine Learning, Data Mining, and High-Performance Computing. As Regents Professor and William Norris Land Grant Chair at the University of Minnesota, he has made pioneering contributions to the development of advanced data-driven methodologies for solving complex scientific, environmental, and societal challenges.

His research focuses on machine learning, data mining, artificial intelligence, and scalable analytics, with applications spanning climate science, cybersecurity, healthcare, sustainability, and geospatial intelligence. Dr. Kumar's groundbreaking work has helped transform how large-scale datasets are analyzed, enabling more accurate predictions, deeper insights, and informed decision-making across diverse domains.

A highly cited researcher and respected thought leader, Dr. Kumar has received numerous prestigious awards for his contributions to computer science and data analytics. Through his innovative research and academic leadership, he continues to advance the frontiers of AI and empower the next generation of intelligent technologies.

Session Type: Keynote Speaker

Focus Area: Artificial Intelligence, Machine Learning, Data Mining, Scalable Analytics, High-Performance Computing, Data Science



Bhaskara Rallabandi

Co-Founder & Chief Technology Officer (CTO)
Invences Inc.
Frisco, TX

Biography: Bhaskara Rallabandi is a technology entrepreneur, AI innovator, and business leader with extensive experience in Artificial Intelligence, enterprise technology, and digital transformation. As Co-Founder and Chief Technology Officer of Invences Inc., he leads the development of innovative technology solutions that help organizations leverage AI, automation, and advanced analytics to drive business value and operational excellence.

With a strong background in software engineering, intelligent systems, and emerging technologies, Bhaskara has played a key role in designing and implementing scalable solutions for enterprises across multiple industries. His expertise spans AI strategy, machine learning applications, enterprise architecture, and technology-driven innovation.

A passionate advocate for technology adoption and innovation, Bhaskara actively collaborates with industry leaders, startups, and research communities to explore the evolving impact of Artificial Intelligence on business and society. His work continues to support organizations in navigating the opportunities and challenges of the AI-driven future.

Session Type: Keynote Speaker

Focus Area: Artificial Intelligence, Enterprise AI, Digital Transformation, Intelligent Automation, Technology Innovation, AI Strategy

SPEAKER EXCELLENCE

Nxt AI-2026 brings together renowned AI pioneers, technology executives, researchers, innovators, and industry leaders from organizations including:



Leading universities and research institutions



Global technology companies



AI research laboratories and innovation centers



Emerging startups and enterprise organizations

Through **both in-person and virtual participation**, the conference fosters a truly global exchange of ideas, expertise, and innovation.

Nxt AI-2026

CALL FOR SPEAKERS

We are actively inviting:

- Oral Presentations
- Poster Presentations
- Flash Talks
- Special Talks



Join a prestigious global platform and showcase your research, innovations, and expertise to an international AI audience.

Join us at Nxt AI-2026

Website: nxtai-conference.com | **Contact:** Venu Gopal, Program Manager

Register Now | Submit Abstract | Become a Speaker

Venue: Boston, MA, USA

A global hub for:

- Artificial Intelligence and technology innovation
- World-class research and academia
- Entrepreneurship and startup ecosystems
- Digital transformation and emerging technologies





See you at Nxt AI-2026

INSIGHTS • COLLABORATION • OPPORTUNITIES



100+

Expert
Speakers



150+

Networking
Opportunities



12+

AI Tracks
& Sessions

Voices From Industry

 Meta



 NVIDIA

 LinkedIn

JPMorganChase 

 ORACLE



U.S. NAVAL
RESEARCH
LABORATORY











