



**Global Summit on  
Artificial Intelligence in  
Healthcare & Life Sciences**  
April 7-8, 2027 | Prague, Czech Republic

GAIAH 2027

# Global Summit on Artificial Intelligence in Healthcare & Life Sciences **2027**

Dates: 7-8 April 2027 | Venue: Prague, Czech Republic



Organized by:

Sciator Conferences LLP

Email: [contact@sciatorconferences.org](mailto:contact@sciatorconferences.org)

Phone / WhatsApp: +1 9109963322

# Summit Overview

The Global Summit on Artificial Intelligence in Healthcare & Life Sciences (GAIAH 2027) brings together the world's leading researchers, clinicians, data scientists, and industry innovators to advance the transformative role of artificial intelligence in modern medicine and biological sciences.

As AI continues to reshape diagnostics, drug discovery, clinical decision-making, and patient care, GAIAH 2027 offers an unparalleled platform for the exchange of cutting-edge research, emerging technologies, and translational breakthroughs. Held in the historic and scientifically vibrant city of Prague, Czech Republic, the summit fosters high-impact dialogue between academia, healthcare institutions, biotechnology companies, and regulatory bodies from across the globe.

GAIAH 2027 is designed to accelerate the responsible integration of AI into healthcare systems worldwide – connecting discovery with delivery, and innovation with impact.

## Summit Objectives

- To highlight recent advances in artificial intelligence and machine learning applications across clinical care and life sciences research
- To promote the translation of AI-driven discoveries into real-world clinical workflows and medical practice
- To integrate multimodal data, including genomics, imaging, and electronic health records, with AI for precision healthcare
- To encourage collaboration between academia, healthcare providers, technology innovators, and the pharmaceutical industry
- To discuss ethical, regulatory, and policy aspects governing AI in medicine and life sciences

# Scientific Themes & Program Highlights

## 1. AI in Medical Imaging, Diagnostics & Pathology

- **Focus Areas:** Deep learning in radiology & CT/MRI interpretation, AI in digital pathology & histology, retinal imaging & ophthalmology AI, dermatology & skin lesion classification, AI in endoscopy, bronchoscopy & colonoscopy, echocardiography & cardiac imaging AI, mammography & breast cancer screening, point-of-care & portable diagnostics, multi-modal image fusion, radiomics & imaging biomarkers, self-supervised learning in medical imaging, foundation models for medical vision, image segmentation & tumor delineation, edge AI for imaging devices, diagnostic validation & clinical deployment

## 2. AI in Drug Discovery, Genomics & Precision Medicine

- **Focus Areas:** AI in drug target identification & molecular docking, generative models for compound design, in silico drug screening, genomics, transcriptomics & multi-omics integration, single-cell omics analysis, spatial transcriptomics, proteomics & metabolomics, biomarker discovery & validation, pharmacogenomics & individualized therapy, systems biology modeling, network biology & pathway analysis, digital twins for molecular modeling, CRISPR & gene editing informatics, rare disease research, vaccine design & immunoinformatics, AI in computational clinical trial modeling & in silico patient stratification

## 3. AI in Clinical Practice, EHR & Hospital Systems

- **Focus Areas:** Clinical decision support systems, NLP for electronic health records, real-world evidence (RWE) analytics, predictive modeling using structured EHR, clinical risk scoring systems, health informatics & clinical data warehousing, clinical workflow automation, risk stratification & early warning systems, sepsis, ICU & critical care AI, AI in surgical planning & robotic surgery, readmission & length-of-stay prediction, emergency medicine & triage AI, hospital resource & workflow optimization, health data interoperability (HL7, FHIR), AI in nursing & allied health practice

## 4. Digital Health, Wearables, Public Health & Global AI

- **Focus Areas:** Wearable sensors & continuous health monitoring, smartphone-based diagnostics & mHealth, IoT & smart medical devices (IoMT), remote patient monitoring & telehealth, digital phenotyping & behavioral analytics, mental health AI & digital therapeutics, AI in rehabilitation & remote physiotherapy, AI in chronic disease management, AI in epidemiology & disease surveillance, population health modeling & social determinants, pandemic preparedness & outbreak prediction, global health equity & AI accessibility, health economics & cost-effectiveness modeling, AI in elderly care & aging populations, health policy & AI-driven healthcare systems

## 5. AI Ethics, Regulation, Education & Emerging Frontiers

- **Focus Areas:** Algorithmic bias, fairness & health equity, explainability & interpretability of clinical AI, EU AI Act, FDA & global regulatory frameworks, AI governance frameworks, model auditing & validation, clinical AI benchmarking, post-deployment monitoring, AI liability & medico-legal implications, trustworthy AI frameworks, human-in-the-loop systems, GDPR, federated learning & patient data privacy, large language models (LLMs) in clinical settings, generative AI in healthcare, AI in medical education & simulation, clinician-AI collaboration & trust

# Summit Vision

The summit envisions a future in which artificial intelligence serves as the cornerstone of healthcare innovation—delivering personalized, data-driven, and evidence-based solutions that enhance clinical decision-making, accelerate life sciences research, and ultimately improve patient outcomes across the globe.

## Tentative Agenda Overview

### Day 1

- Keynote Lectures
- Plenary Scientific Sessions
- Panel Discussions
- Networking Sessions

### Day 2

- Oral Scientific Presentations
- Poster Sessions
- Industry and Technology Sessions
- Collaborative Discussions

Detailed agenda will be published on the official website.

## Why Participate

- Gain insights from global experts at the forefront of AI, healthcare, and life sciences
- Present and discuss cutting-edge research in artificial intelligence applications across medicine
- Network with international academic, clinical, and industry professionals driving innovation
- Explore emerging AI technologies and their real-world clinical and research applications
- Enhance professional development and forge cross-sector collaborations to shape the future of healthcare

# Target Audience

The summit is designed for professionals involved in artificial intelligence, healthcare innovation, and life sciences, including::

- Artificial intelligence and machine learning researchers working on healthcare and biomedical applications
- Radiologists, pathologists, and diagnostic specialists integrating AI into clinical imaging and diagnostic workflows
- Clinicians and hospital physicians working with AI-assisted clinical decision support and electronic health record systems
- Computational biologists, bioinformaticians, and genomic scientists applying AI to drug discovery and multi-omics analysis
- Pharmacologists and drug development scientists working on AI-accelerated therapeutic pipelines
- Digital health developers and engineers building AI-powered wearable, mobile, and connected health platforms
- Public health researchers and epidemiologists applying AI to disease surveillance and population health modeling
- Biomedical engineers developing AI-enabled medical devices and diagnostic systems
- Health informaticists, data scientists, and clinical informatics professionals managing healthcare data infrastructure
- Medical educators and health professionals engaged with AI literacy and workforce development
- Bioethicists, regulatory scientists, and health policy researchers working on AI governance and responsible deployment
- Industry professionals, technology developers, and innovators bringing AI solutions to healthcare markets
- Graduate students, postdoctoral researchers, and early-career scientists working at the AI and healthcare intersection

# Venue

## Prague, Czech Republic

Prague is a leading European destination for international scientific conferences, offering excellent connectivity, modern infrastructure, and a rich cultural heritage. The city provides an ideal environment for academic exchange, professional networking, and collaboration.

Participants will have access to a wide range of accommodation options and convenient transport facilities near the conference venue.

## Contact Information

For all inquiries related to registration, abstract submission, sponsorship, exhibition, and general participation, please contact the organizing team using the details below.

### Contact Details

Phone: +1 910 996 3322

WhatsApp: +1 910 996 3322

Email: [info@sciratorconferences.com](mailto:info@sciratorconferences.com)

### Official Website

<https://sciratorconferences.com/gaiah-2027/>