



International Conference on Artificial Intelligence in Oncology 2025 (ICAI0 2025)

(Hybrid Mode)

Organised by **Faculty of Science and Technology**
in collaboration with
Washington University Science and Technology, USA.
& **Research Cell, Vishwakarma University, Pune**

CONFERENCE TRACK



AI in Basic Principles of Oncology



AI in Public Health



AI in Solid Malignancies



AI in Hematological Malignancies



AI in Special Topics in Oncology



About the Conference

The integration of Artificial Intelligence (AI) into oncology has opened new frontiers in the diagnosis, treatment, and management of cancer. With advancements in machine learning, deep learning, and data analytics, AI has the potential to transform clinical practices, improve patient outcomes, and

accelerate cancer research. The International Conference on Artificial Intelligence in Oncology (ICAIO)2025 aims to bring together world-renowned experts, researchers, clinicians, and technology leaders to explore the latest AI-driven innovations in oncology.

Oncology (ICAIO) 2025 aims to bring together world-renowned experts, researchers, clinicians, and technology leaders to explore the latest AI-driven innovations in oncology.

The main objectives of the conference are:

Explore Cutting-Edge AI Technologies: Showcase AI innovations in early detection, diagnostics, treatment planning, and personalized medicine in oncology.

Foster Collaboration Between Disciplines: Encourage collaboration between AI researchers, oncologists, bioinformaticians, and healthcare professionals.

Discuss Ethical and Regulatory Challenges: Address challenges around AI implementation, data privacy, and healthcare regulations in oncology.

Promote AI in Cancer Research: Present the latest breakthroughs in cancer genomics, clinical trials, and drug discovery powered by AI.

Provide Networking Opportunities: Facilitate networking opportunities to promote partnerships, collaborations, and future projects in AI and oncology.

About Vishwakarma University, Pune:

Vishwakarma University, Pune (VU) is a natural offshoot of the Vishwakarma Group of Institutions' educational legacy spanning more than 35 years. The University has been established as a State Private University through Maharashtra Government Act in the year 2017. Being UGC approved, VU is authorized to design and implement its curriculum, conduct examinations, award degrees. As per Times Higher Education Global Impact Rankings 2021, Vishwakarma University, Pune is featured in the top institutions amongst 1200 universities from 98 countries/regions. These rankings assess universities against the United Nations' Sustainable Development Goals (SDGs).

About Pune:

Pune ,previously spelled in English as Poona is a city in the state of Maharashtra in the Deccan plateau in Western India. It is the administrative headquarters of the Pune district, and of Pune division. According to the 2011 Census of India, Pune has 7.2 million residents in the metropolitan region, making it the seventh-most populous metropolitan area in India. The city of Pune is part of Pune Metropolitan Region.[17] Pune is one of the largest IT hubs in India. It is also one of the most important automobile and manufacturing hubs of India. Pune is often referred to as the "Oxford of the East" because of its educational institutions. It has been ranked "the most livable city in India" several times

IMPORTANT DATES

Full Paper
Submission
Deadline

30th
January
2025

Notification for
Acceptance

10th
February
2025

Camera
Ready
Deadline

20th
February
2025

Conferences
Date

26th
February
2025

REGISTRATION DETAILS

Once Author gets acceptance of the paper, then registration link for the paper will be given through email. Registration fees will be paid via that link.

**Non-Author/Participant
Registration Link:**

<https://forms.gle/Q3x2QwnkgqkCfzqWA>

AUTHOR

Author Type	Registration fees
Indian	5000 ₹
International	200 \$

PARTICIPANTS/NON-AUTHOR

PARTICIPANTS	Registration fees
Indian	1000 ₹
International	50 \$

Publication:

All accepted full-length papers will be published in Springer Nature Proceeding (Scopus Indexed).

Call for Paper

Track 1: _____

AI in Basic Principles of Oncology:

This track focuses on the intersection of artificial intelligence (AI) and the foundational principles of oncology. It aims to explore how AI technologies can enhance the understanding of cancer biology, pathophysiology, and fundamental mechanisms of tumorigenesis. As AI continues to play a transformative role in cancer research, this track will highlight AI's contributions to unraveling the complexity of cancer biology and improving our understanding of tumor development, progression, and heterogeneity. It will also examine how AI tools are revolutionizing traditional approaches in cancer research, enabling breakthroughs in basic science that can directly impact clinical applications and therapeutic innovations.

Track 2: _____

AI in Public Health:

This track will focus on the transformative role of Artificial Intelligence (AI) in public health, particularly in the prevention, early detection, and management of cancer. The intersection of AI with public health strategies offers vast potential to improve cancer screening, prevention programs, and overall healthcare systems, particularly in resource-limited settings. This track will explore how AI technologies can enhance population-based cancer control, improve the efficiency and accessibility of healthcare services, and reduce cancer-related disparities, ultimately improving global health outcomes.

Track 3: _____

AI in Solid Malignancies:

Solid malignancies, which include cancers such as breast, lung, colorectal, prostate, and many others, remain among the leading causes of cancer-related morbidity and mortality worldwide. The application of Artificial Intelligence (AI) in these cancers offers immense potential for improving early detection, enhancing diagnostic accuracy, optimizing treatment strategies, and advancing personalized medicine. This track will explore how AI

is being integrated into the management of solid tumors, with a particular focus on its role in diagnostics, treatment decision-making, predictive modeling, and therapeutic developments.

Track 4: _____

AI in Hematological Malignancies:

Hematological malignancies, including leukemia, lymphoma, and myeloma, represent a unique class of cancers that often present with complex diagnostic and therapeutic challenges. The integration of Artificial Intelligence (AI) in hematology offers significant potential to revolutionize how these diseases are diagnosed, treated, and managed. AI technologies are being leveraged to improve early detection, personalize treatment plans, predict treatment responses, and monitor disease progression in hematological cancers. This track will focus on the applications of AI in hematological malignancies, with an emphasis on clinical diagnostics, genomic profiling, treatment decision-making, and clinical trial optimization.

Track 5: _____

AI in Special topics in Oncology:

The landscape of oncology is rapidly evolving with the integration of Artificial Intelligence (AI) in areas that were once considered niche or complex. This track will focus on the "special topics" in oncology where AI is making a significant impact but may not yet be widely discussed in mainstream oncology conferences. These include areas such as rare cancers, immunotherapy, cancer prevention, AI in the palliative care setting, AI-driven healthcare optimization, and novel AI applications in multi-disciplinary approaches to cancer treatment. By bringing together multidisciplinary experts from AI, oncology, and healthcare, this track aims to explore the emerging opportunities and challenges that AI presents in these specialized areas of cancer research and treatment. The goal is to promote innovation, foster collaboration, and encourage the development of AI-driven solutions that address the unique needs of these specific areas in oncology.

Instructions for Preparing Manuscripts Instructions:

Prospective authors are invited to submit full-length original research papers. While submitting a manuscript to ICAIO 2025, the authors acknowledge that no paper substantially similar in content has been or will be submitted to another journal, conference or workshop during the review period. In such a case the paper will be rejected without review. Papers must be electronically submitted before the deadline expires without exception through the submission link given. The paper must not exceed 12 pages in length (including all text, figures, and references). The manuscript must be submitted in word/pdf format only & the file size of the manuscript should not exceed 10 MB.

ICAIO 2025 follows a single-blind review process. Hence, the authors must NOT remove the names and affiliations of authors from the paper. Use a proper tool to convert the resulting source into a pdf document that has only scalable fonts with all fonts embedded.

The images embedded in the paper must not contain transparent pixels (i.e., an alpha-channel of a transparent color) since this could lead to problems when displaying or printing the pdf. The pdf manuscript must not have Adobe Document Protection or Document Security enabled.

Preparing your Paper:

Authors must use the manuscript template specified here. The LaTeX and Word templates can be downloaded from the following links:

<https://www.springer.com/gp/authors-editors/conference-proceedings/conference-proceedings-guidelines>

Paper Submission Link : <https://forms.gle/HM5vQosasnx4iku96>

Keynote Speaker



Dr. Sachi Nandan Mohanty
Professor,
VIT AP, Amaravati, AP, India.



Dr. Jayant Sastri Goda
Professor and Clinician
Scientist, Radiation Oncology
ACTREC
Tata Memorial Centre, Kharghar,
Navi Mumbai, India



Dr. Abhay Somani
MBBS, DNB - Cardiology,
DNB - General Medicine,
MD - General Medicine,
Senior Interventional
Cardiologist,
Ruby Hall Clinic Pune.



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