

Call for Contributions

1. Inform the Chair: with the title of your contribution

2. Submission URL:

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=HEALTHINFO+2024+Special>

Please select Track Preference as **PIDAIHO**

3. Note: *For 2024, all events will be held in a hybrid mode: on site or virtual choices (live, prerecorded videos, voiced presentation slides, and .pdf slides). We hope for better times allowing us to return to the traditional on site scientific events. However, we are ready to adapt any which way the conditions dictate.*

Special track

PIDAIHO: Positive Influence of Data & AI on Healthcare Outcomes

Chair

Dr. Arun Thotapalli Sundararaman, Head, Healthcare Data & AI, Accenture Technology, India

arunts@gmail.com

along with

HEALTHINFO 2024: The Ninth International Conference on Informatics and Assistive Technologies for Health-Care, Medical Support and Wellbeing

<https://www.iaria.org/conferences2024/HEALTHINFO24.html>

November 03 - 07, 2024 - Nice, France

It is a matter of concern and immense opportunity that Healthcare Industry is data-rich, yet, insight-poor, even in developed economies. Gaps are primary due to highly unstructured data prevalent in medical notes, clinical records, lab results etc. This challenge is compounded with lack of integration of data sources; data that is required for effective clinical outcomes is spread across 4 large islands viz., EMRs, Health Administrators, Personal Health Records (including wearables, lifestyle data, implanted medical devices) and Public Health data. With advancements in Data and AI technologies, increasing popularity of new healthcare models such as At-home care, remote patient monitoring this problem is set to compound at a rapid pace.

While these challenges unfold, on the solutions side, multiple advancements, in parallel, continue to offer innovative solutions. These include increased adoption of new-age data platforms that combine the power of cloud storage and distributed computing, innovative data governance models (e.g. data mesh), ease of use and maturity of business analytics and data science techniques, commoditization of AI algorithms and models and increasing levels of acceptance towards GenAI in Healthcare Industry. Alongside these development, Healthcare Industry is witnessing several academic research programs, corporate innovation agendas, huge investment commitments from technology giants and multiplicity of start-up eco-system players with niche ideas and technical approaches in effective use of Data and AI, including GenAI.

While each of these tracks of innovation and research seek to address micro level industry problems, it is important that all these converge with a one primary aim, i.e., improving healthcare outcomes and in the process improving the experience of patients and care givers, including Doctors, Physicians, para-medical personnel etc. Equally important in this journey is the need to balance the sensitivities associated with everyone involved addressing Data Privacy, security, Regulatory requirements and yet accelerating the pace of seamless data interoperability.

Towards this aim, this special track seeks to throw light on research work and industry experience that highlight positive impact and influence of Data and AI on healthcare outcomes.

Subtopics for contributions include, but are not limited to:

- Modern Healthcare Data Platforms
- Healthcare data standards and protocols enabling data interoperability
- Patient centric data innovations
- EDGE computing in Healthcare Ecosystem

- Healthcare Business Analytics aiming to solve challenges faced by Healthcare ecosystem players
- AI driven improvements in patient engagement, clinical research, Hospital processes, care management
- Any micro-function with high potential to improve clinical outcomes through Data & AI, e.g., Care Coordination, Remote Patient Monitoring, at-home-care, coordination of benefits
- Unified Electronic Health Records / Electronic Medical Records
- New age data sourcing and consumption challenges arising from wearables, Hospital / Home IoTs etc.
- Need for Global standards and protocols and regulations focused on improving clinical outcomes
- Ethical and moral aspects of Healthcare AI (privacy / security)
- Healthcare Data Quality in light of emerging data processing and consumption patterns
- Innovation around core Data Management disciplines (Data Governance) aimed at improving patient / clinical outcomes
- Adoption of GenAI in clinical and health administration functions aimed at improving patient / clinical outcomes

Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaria.org]
- Presentations: slide only [slide-deck posted on www.iaria.org]
- Demos: two pages [posted on www.iaria.org]

Important Datelines

Inform the Chair or Coordinator: As soon as you decide to contribute

Submission: Sep 19, 2024

Notification: Oct 6, 2024

Registration: Oct 16, 2024

Camera-ready: Oct 16, 2024

Note: The submission deadline is somewhat flexible, providing arrangements are made ahead of time with the chairs.

Paper Format

- See: <http://www.iaria.org/format.html>
- Before submission, please check and comply with the editorial rules: <http://www.iaria.org/editorialrules.html>

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iariajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the Open Access ThinkMind Digital Library: <http://www.thinkmind.org>

Paper Submission

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=HEALTHINFO+2024+Special>

Please select Track Preference as **PAIDAIHO**

Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.iaria.org/registration.html>

Contacts

Chair

Arun Thotapalli Sundararaman, arunts@gmail.com

Logistics (Steve McGuire), steve@iaria.org