

3RD

INTERNATIONAL CONFERENCE

ON

AI IN MEDICINE AND HEALTHCARE

(AiMH' 2027)

 *Maldives*


Artificial Intelligence for Predictive Analytics in Digital Health: Applications in Critical Care and Intensive Care Medicine

3RD INTERNATIONAL CONFERENCE ON AI IN MEDICINE AND HEALTHCARE (AiMH)

The impact of artificial intelligence (AI) on healthcare today is undeniable. AI can make clinical decisions based on predictive and data-based algorithms. In intensive care and critical care medicine, AI-based predictive analytics is being seen as a trustworthy solution for better patient monitoring and the ability to predict the possible deterioration of their condition as well as help allocate resources better. By applying machine learning, deep learning, explainable AI, digital health technologies, wearable sensors, Internet of Medical Things (IoMT), multimodal clinical data, new opportunities appear for smart intensive care systems to enhance patients' results and lower healthcare expenditures.

The goal of this special session is to gather together academics, medical experts, practitioners, technology developers, and industrial representatives to discuss the latest developments and innovative approaches in the area of AI-based predictive analytics in medical care. Attention will be focused on all fields of health-related technology, especially intensive care and emergency services. The session is also aimed at attracting empirical research reports, applications from the industry, equivalent studies, reviews, and other pioneering works of scholars that will provide solutions to the issues happening in the field of intelligent medical care.


**23-25
MARCH 2027**

MALDIVES

 Paradise for Innovation,
Collaboration & Impact

HYBRID EVENT

 In-person & Virtual
Participation

Official Website
www.aimh-conference.org


TOPICS OF INTEREST

Contributors are required to present original and new research on topics such as:

- AI-based prediction models in monitoring ICU patients
- Early warning systems for sepsis, septic shock, and multiple organ failure
- Mortality prediction through machine and deep learning
- AI-assisted risk evaluation in emergency or intensive care
- AI-controlled ventilation and respiration management
- Predictive analytics through electronic health records (EHR)
- AI for personalized medicine in emergency care
- Reinforcement learning for therapeutic optimization
- Federated learning for collaborative health analytics
- Remote patient monitoring through wearable and IoMT devices
- Multimodal AI technology providing imaging, clinical, and lab information
- Natural language processing for ICU clinical notes
- AI optimization of inventory procedure in ICUs
- Recommendation systems for personalized treatment
- AI usage in tele-ICU services
- Decision support systems in an emergency
- The role of digital biomarkers and continuous health status monitoring
- Privacy-preserving AI in healthcare system and secure data sharing
- Large Language Models for intensive care decision-making
- Generative AI in digital healthcare
- Human-centered AI in intensive care



SUBMISSION GUIDELINES

Researchers are encouraged to present their fresh papers that have never been reviewed or published before. Every paper will undergo a thorough assessment from experts based on factors such as originality, technological quality, notable scientific contribution, relevance to the special session and clarity of presentation.

When the paper is accepted, it will be published at the conference in compliance with the relevant rules.



INTENDED AUDIENCE

This special session is intended for:

- Researchers in Artificial Intelligence and Machine Learning
- Medical Informatics and Digital Health researchers
- Critical Care Physicians and Intensivists
- Biomedical Engineers
- Clinical Data Scientists
- Healthcare Informatics Professionals
- Hospital Administrators
- Medical Device and Healthcare Technology Developers
- Graduate Students and Early Career Researchers
- Healthcare Industry Professionals


GLOBAL PLATFORM
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**INTERDISCIPLINARY
COLLABORATION**
Bridging AI, Medicine & Digital Health

INNOVATION & IMPACT
Driving the future of intelligent critical care

**BEST PAPER
AWARDS**
Recognition for outstanding research contributions

IMPORTANT DATES

- Paper Submission Deadline : 15 September 2026
- Notification of Acceptance : 15 October 2026
- Camera-Ready Submission : 15 November 2026
- Early Bird Registration Ends: 30 November 2026
- Conference Dates : 23-24 March 2027

ORGANIZED BY


AiMH' 2027

 Advancing AI for Smarter,
Safer and Human-Centered
Healthcare

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