



Indra Ganesan

★ **COLLEGE OF NURSING** ★

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Affiliated to The Tamil Nadu Dr.M.G.R Medical University

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National Conference on
TRANSFORMING HEALTH CARE WITH ARTIFICIAL
INTELLIGENCE (AI) - GLIMPSE INTO FUTURE - 2026

23.03.2026

Conference Proceedings

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MESSAGE



Er. G. Rajasekaran

*Secretary, Indra Ganesan Institutions
Tiruchirappalli, Tamil Nadu*

It gives me immense pleasure to extend my warm felicitations on the occasion of the **National Conference on “Transforming Health Care with Artificial Intelligence (AI) - A Glimpse into Future - 2026”** organized by the **Indra Ganesan College of Nursing**.

Artificial Intelligence is rapidly transforming the landscape of healthcare by improving diagnosis, treatment planning, patient monitoring, and healthcare management systems. The integration of AI technologies with nursing and medical practice is opening new avenues for efficient, accurate, and patient-centered care. Conferences such as this serve as an important platform for academicians, healthcare professionals, researchers, and students to share knowledge, innovative ideas, and recent advancements in the field of AI-driven healthcare.

I appreciate the dedicated efforts of the organizing committee, faculty members, and students of Indra Ganesan College of Nursing for taking the initiative to conduct this timely and relevant conference. I am confident that the deliberations and discussions during this event will provide valuable insights and contribute significantly to the future of healthcare and nursing practice.

I wish the conference a grand success and hope that the proceedings will serve as a valuable resource for researchers and healthcare professionals.

A handwritten signature in black ink, appearing to read 'Er. G. Rajasekaran', written in a cursive style.

Er.G.Rajasekaran

MESSAGE



Dr. G. Balakrishnan

Director, Indra Ganesan Institutions

Tiruchirappalli, Tamil Nadu

It is a matter of great pride and privilege to felicitate the **National Conference on “Transforming Health Care with Artificial Intelligence (AI) - A Glimpse into Future - 2026”** organized by the **Indra Ganesan College of Nursing**.

Artificial Intelligence has emerged as a transformative force in modern healthcare systems. From predictive analytics and clinical decision support to robotic surgeries and personalized patient care, AI technologies are reshaping the way healthcare services are delivered across the world. For nursing professionals, understanding and adopting these emerging technologies is essential to improve patient safety, efficiency, and quality of care.

This conference provides an excellent opportunity for researchers, academicians, healthcare professionals, and students to explore innovative research ideas and discuss practical applications of AI in healthcare. Such academic initiatives significantly contribute to strengthening interdisciplinary collaboration and advancing knowledge in emerging healthcare technologies.

I congratulate the organizers for their commendable efforts in conducting this national conference and compiling the conference proceedings. I extend my best wishes for the success of the conference and hope it will inspire meaningful research and innovation in the field of healthcare.


Dr.G.Balakrishnan

MESSAGE



Dr. M. Anusuya

*Registrar, Indra Ganesan Institutions
Tiruchirappalli, Tamil Nadu*

I am delighted to extend my heartfelt felicitations for the **National Conference on “Transforming Health Care with Artificial Intelligence (AI) - A Glimpse into Future - 2026”** organized by the **Indra Ganesan College of Nursing**.

The rapid evolution of Artificial Intelligence is significantly influencing the healthcare sector by enabling data-driven decision making, early disease detection, efficient hospital management, and improved patient care. For healthcare professionals, particularly in nursing, staying informed about these technological advancements is essential to meet the demands of modern healthcare systems.

This national conference provides a valuable academic platform for scholars, practitioners, and students to exchange knowledge, present innovative research findings, and explore the future possibilities of AI in healthcare. The conference proceedings will serve as an important reference for researchers and professionals interested in the integration of AI technologies in healthcare practice.

I appreciate the sincere efforts of the organizers, faculty members, and students in successfully organizing this academic event. I wish the conference every success and hope it contributes to the advancement of knowledge and innovation in healthcare.

Dr.M.Anusuya

MESSAGE



Dr. K. Sangeetha

*Principal, Indra Ganesan College of Nursing, Tiruchirappalli, Tamil Nadu.
National conference on THWAI:GIF- Organizing Chairperson*

It is with great pleasure that we present the proceedings of the National Conference on **“Transforming Healthcare with Artificial Intelligence (AI): A Glimpse into the Future,”** organized by **Indra Ganesan College of Nursing, Tiruchirappalli**, on 23rd March 2026.

This conference brings together academicians, researchers, healthcare professionals, and students to explore the emerging role of Artificial Intelligence in transforming healthcare systems. Artificial Intelligence has rapidly become an essential component in modern healthcare, supporting clinical decision-making, improving diagnostic accuracy, enhancing patient care, and optimizing healthcare management.

The scientific committee received several research abstracts from enthusiastic participants representing diverse areas of nursing and healthcare research. After careful review, selected papers were included in this conference proceeding. These contributions reflect innovative ideas, evidence-based practices, and emerging technologies that can shape the future of healthcare.

The editorial team sincerely appreciates the efforts of all authors who contributed their valuable research work and the reviewers who ensured the scientific quality and integrity of the manuscripts. We also extend our heartfelt gratitude to the organizing committee, faculty members, and student volunteers whose dedication made this conference successful.

We hope that this compilation of research papers will serve as a valuable resource for healthcare professionals, researchers, and students, inspiring further research and innovation in the field of Artificial Intelligence in healthcare.

We wish the conference great success and hope that the discussions and knowledge shared during this event will contribute to the advancement of healthcare practices.

A handwritten signature in black ink, appearing to read 'K. Sangeetha'.

Dr.K.Sangeetha

MESSAGE



Dr.(Prof)SathiyalathaSarathi

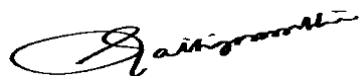
*Indra Ganesan College of Nursing Tiruchirappalli, Tamil Nadu
National conference on THWAI:GIF, Organizing Secretary*

It is with immense pleasure and pride to present this proceedings of the National conference on “Transforming Health Care with Artificial Intelligence: Glimpse into Future-2026” organized by Indra Ganesan College of Nursing. Artificial Intelligence is transforming many areas of healthcare, and nursing is one of the fields that is greatly benefiting from this technological advancement. AI helps nurses by improving patient monitoring, assisting in early disease detection, and supporting clinical decision-making. Smart monitoring systems can continuously track patients' vital signs and alert nurses if there are any abnormalities. This helps in providing faster and more accurate care.

This conference has brought together researchers, academicians, healthcare professionals, technologists, and students from diverse disciplines who share a common vision of leveraging artificial intelligence to address current healthcare challenges and build smarter healthcare systems for the future.

I appreciate the valuable contributions of all authors who have submitted their scholarly work and shared their insights. Their efforts play a vital role in fostering academic dialogue, interdisciplinary collaboration, and knowledge dissemination in this rapidly evolving field.

I sincerely extend my heartfelt gratitude to the Management, Registrar, Principal, faculty and students for their continuous guidance and support. I appreciate the meticulous work of scientific committee, reviewers, organizing team, and supporting institutions for their dedication and commitment in making this conference as successful event. I hope this conference proceeding gives enriched platform for the participants in academics, research and education.



Dr.(Prof)SathiyalathaSarathi

APPLICATIONS AND THREATS OF AI IN DAILY LIFE



Dr. V. Sathiesh Kumar

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ABSTRACT

In recent years, Artificial Intelligence (AI) has aided in the development of Science, Engineering, Technology, and Products. AI systems or devices incorporate programs that can sense, reason, act, and adapt. Which transforms the normal device into a smart device. A subset of AI is machine learning, in which the algorithm's performance gets improved as the model is exposed to more data over time. Deep learning architectures enhance model performance by incorporating multilayer neural networks that learn from vast amounts of data. It acts as a subset of machine learning. There are three types of machine learning algorithm, they are supervised learning, unsupervised learning and reinforcement learning. In supervised learning, the model is trained using labeled data where both input and correct output are known, allowing the system to learn the relationship between them and make predictions. In unsupervised learning, the model works with unlabeled data and identifies hidden patterns or structures within the data, such as grouping similar items. Reinforcement learning involves an agent that learns by interacting with an environment, receiving rewards or penalties for its actions, and improving its performance by choosing actions that maximize the total reward over time. The process of machine learning involves several important steps. First, dataset collection is carried out, where relevant data is gathered from various sources for analysis. Next, the data is divided using a train-test split, where one portion of the data is used to train the model and the remaining portion is used to evaluate its performance. After that, feature extraction is performed to identify and select the most important attributes from the data that help the model learn effectively. Then, the training step is carried out, where the machine learning algorithm learns patterns from the training data. Finally, the testing step is performed using the test dataset to evaluate how well the trained model can make predictions on new, unseen data. The machine learning models give state-of-the-art results

in different domain such as biomedical instrumentation, diagnostic devices, smart manufacturing, communications, IoT, E-vehicles etc.

Artificial Intelligence (AI) is increasingly used in the medical field, but it also raises several concerns. Privacy issues arise because AI systems require large amounts of patient data, which may be misused or exposed through data breaches, threatening patient confidentiality. Bias and discrimination can occur if AI models are trained on limited or biased medical datasets, leading to inaccurate diagnoses or unequal treatment for certain groups of patients. AI may also contribute to job displacement, as automation can reduce the demand for certain administrative or routine medical roles. Radiologists may face reduced demand as AI systems become more capable of analyzing imaging studies. Security risks are another concern, as cyberattacks on AI-based healthcare systems could compromise sensitive patient information or disrupt hospital operations. Excessive dependence on technology may reduce the clinical judgment and decision-making skills of healthcare professionals if they rely too heavily on AI recommendations. There are also ethical concerns, such as lack of transparency in AI decision-making and the responsible use of AI in patient care. Additionally, the environmental impact of training large medical AI models requires significant computational resources, leading to increased energy consumption and carbon emissions.

Keywords: *Artificial Intelligence, Threats of AI, AI in Medical domain*

ARTIFICIAL INTELLIGENCE IN MENTAL HEALTH CARE: NURSES' ROLE



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Mrs. Annapoorani K

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ABSTRACT

Background: Mental health care is undergoing rapid transformation through the integration of Artificial Intelligence (AI). AI refers to computer systems capable of performing tasks that typically require human intelligence, such as learning from data, pattern recognition, language processing, and decision support. In health care, AI applications include clinical decision support systems, predictive analytics, telemedicine, electronic documentation, research analysis, and simulation-based education. Mental health services, often challenged by stigma, workforce shortages, delayed diagnosis, and limited accessibility, can significantly benefit from AI-enabled innovations.

Methods: This paper presents a conceptual overview of AI applications in mental health nursing practice, education, and research. It synthesizes current evidence on AI-based tools, including predictive risk models, generative AI chatbots, remote monitoring systems, digital screening tools, and simulation platforms. Ethical frameworks and guiding principles for AI use in health care were also reviewed to emphasize responsible implementation.

Results: AI demonstrates promising outcomes in early identification of depression, anxiety, delirium, and suicide risk through predictive analytics. Generative AI chatbots provide scalable psychological support and psychoeducation, with modest reductions in depressive and anxiety symptoms reported. AI enhances clinical decision-making, supports automated documentation, predicts risks such as falls and medication errors, and facilitates remote monitoring through mobile applications and wearables. In nursing education, AI-based simulations strengthen communication skills, crisis management abilities, and clinical reasoning. However, challenges include data privacy concerns, digital literacy gaps, potential over-reliance on technology, and ensuring equitable access.

Conclusion: Artificial Intelligence is not a replacement for nurses but a supportive tool that enhances efficiency, accuracy, and accessibility in mental health care. Ethical implementation requires human oversight, transparency, accountability, and respect for patient autonomy. Integrating smart technology with compassionate nursing practice will strengthen person-centered mental health services and ensure that technology serves humanity effectively.

Keywords: *Artificial Intelligence; Mental Health Nursing; Clinical Decision Support; Generative AI; Tele-mental Health; Ethical AI*

AI TOOLS – MAKES RESEARCH EASIER



Dr. S. Yayathee

*Nursing Director, Rela Hospitalb Author of Research Made Easy with AI Tools
Vision Health Sciences Publishers*

ABSTRACT

Artificial Intelligence (AI) has significantly transformed the research process by making information gathering, analysis, and organization faster and more efficient. Traditional research often requires long hours of reading, summarizing, and verifying large amounts of information. With the introduction of AI-powered tools, researchers can now streamline these tasks, allowing them to focus more on critical thinking, interpretation, and innovation. AI tools assist in literature review, data analysis, citation management, and content summarization, making research more accessible for students, academics, and professionals. Assembling the right AI toolkit is akin to curating a medical kit for fieldwork: you need versatile essentials for diagnostics (like literature search), interventions (data analysis), and follow-ups (writing aids), tailored to your domain's demands. At this moment, with over 100 AI research tools are available spanning general-purpose LLMs to specialized healthcare analyzers. Selecting a right tool can overwhelm even seasoned researchers in medical, nursing, paramedical, or social sciences. The key is to prioritize the tools that align with our workflow. One of the most widely used AI tools for research assistance is **ChatGPT**. It helps researchers understand complex topics, generate research ideas, summarize lengthy articles, and refine research questions. Another valuable tool is **Semantic Scholar**, an AI-powered academic search engine that helps users find relevant scholarly papers quickly. **Elicit** is another AI tool designed specifically for research workflows. For citation management and reference organization, **Zotero** and **Mendeley** incorporate AI-powered features that help researchers collect, organize, and cite academic sources. AI tools also support writing and editing tasks. Tools like **Grammarly** help improve grammar, clarity, and academic tone, ensuring that research papers are well-structured and professional. Despite their many advantages, AI tools should be used responsibly. Researchers must critically evaluate AI-generated outputs and ensure that sources are credible and properly cited. AI should be viewed as a supportive

assistant rather than a replacement for human judgment and academic integrity. In conclusion, AI tools have made research more efficient, organized, and accessible. By assisting with literature searches, summarization, citation management, and writing support, these tools help researchers save time and improve productivity. When used responsibly, AI can greatly enhance the research process and enable scholars to focus on deeper analysis and knowledge creation.

APPLICATION OF ARTIFICIAL INTELLIGENCE IN NURSING: THE ARRIVAL OF A NEW ERA IN HEALTHCARE



Dr. Malliga. M

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ABSTRACT

Artificial Intelligence (AI) is rapidly transforming the healthcare sector and is ushering in a new era for nursing practice, education, and patient care. The integration of AI technologies such as machine learning, predictive analytics, clinical decision-support systems, and intelligent monitoring devices has the potential to significantly enhance nursing efficiency and patient outcomes. AI-assisted tools enable nurses to monitor patient conditions in real time, identify early signs of complications, reduce medical errors, and support evidence-based decision-making. In addition, AI can automate routine administrative tasks, allowing nurses to dedicate more time to direct patient care and holistic support.

The emergence of AI-powered health systems also plays a vital role in improving patient safety, optimizing workload management, and enhancing personalized care. Furthermore, AI applications in nursing education, including simulation-based learning and virtual training platforms, are preparing future nurses to adapt to technology-driven healthcare environments. Despite these advantages, challenges such as ethical concerns, data privacy, technological training, and integration into clinical workflows remain important considerations.

This concept paper highlights the evolving role of Artificial Intelligence in nursing and explores its potential to revolutionize nursing practice, improve healthcare delivery, and support the development of a more efficient and patient-centered healthcare system.

Keywords: *Artificial Intelligence, Nursing Practice, Clinical Decision Support Systems, Predictive Analytics, Patient Care, Healthcare Technology, Nursing Informatics.*

ARTIFICIAL INTELLIGENCE IN THE TEACHING AND LEARNING PROCESS: TRANSFORMING EDUCATION FOR THE FUTURE



Dr. Rajathi Abdulla

Principal, KMC College of Nursing, Trichirapalli

ABSTRACT

Artificial Intelligence (AI) is emerging as a powerful tool that is transforming the traditional teaching and learning process in modern education. The integration of AI technologies in education provides innovative opportunities to enhance instructional methods, personalize learning experiences, and improve academic outcomes. AI-driven systems such as intelligent tutoring systems, adaptive learning platforms, automated assessment tools, and virtual assistants support both educators and learners by making education more efficient, accessible, and interactive.

In the teaching process, AI helps educators analyze student performance, identify learning gaps, and design personalized instructional strategies that cater to individual learning needs. For students, AI-powered learning environments offer customized content, immediate feedback, and flexible learning pathways that encourage self-paced learning and deeper understanding. Additionally, AI tools can automate administrative tasks such as grading, attendance monitoring, and data management, enabling educators to focus more on mentoring, creativity, and critical thinking development.

Despite its significant advantages, the adoption of AI in education also presents challenges, including concerns related to data privacy, ethical use of technology, digital literacy, and the need for proper training among educators. Therefore, a balanced and responsible implementation of AI is essential to maximize its benefits in the educational landscape.

This concept paper explores the role of Artificial Intelligence in transforming the teaching and learning process and highlights its potential to create a more innovative, inclusive, and effective educational environment for the future.

Keywords: *Artificial Intelligence, Teaching and Learning, Educational Technology, Adaptive Learning, Intelligent Tutoring Systems, Digital Education, Personalized Learning*

COMMON LEGAL AND ETHICAL CHALLENGES IN USE OF ARTIFICIAL INTELLIGENCE: HUMAN RIGHTS AND HEALTH CARE



Dr. B. Venkatesan

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(GITAM Deemed to be University), Visashapatnam*

ABSTRACT

The expanding deployment of artificial intelligence (AI) in healthcare presents profound legal and ethical challenges, particularly in relation to human rights protections. AI-driven diagnostic systems, predictive analytics, and resource allocation tools offer significant potential to improve efficiency and clinical outcomes; however, they also raise concerns regarding equality, privacy, accountability, and access to care. When AI models are trained on non-representative or historically biased datasets, they may produce discriminatory outcomes in diagnosis, risk prediction, or treatment prioritization. Such disparities can conflict with equality and non-discrimination principles enshrined in international human rights law. Additionally, opacity in complex machine learning models complicates informed consent and challenges patients' rights to explanation and due process when automated systems influence clinical decisions.

Data protection and privacy are equally critical. Healthcare AI relies on large volumes of sensitive personal data, increasing the risk of misuse, unauthorized access, or secondary exploitation. Regulatory frameworks such as the General Data Protection Regulation impose strict conditions on data processing, automated decision-making, and profiling, yet enforcement gaps and cross-border data flows complicate compliance. Ensuring meaningful consent and safeguarding confidentiality remain persistent challenges. Accountability and liability further complicate AI integration into healthcare systems. Addressing these challenges requires embedding human rights principles into AI design and governance, including transparency, fairness, human oversight, and participatory oversight mechanisms.

Keywords: *Data Privacy, Compliance, machine learning models, Predictive analytics*

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