

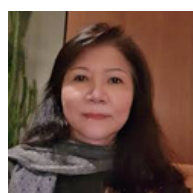
YOUR GLOBAL VOICE FOR NURSING INFORMATICS

The International Medical Informatics Association Nursing Informatics (IMIA NI) is a global network aimed at enhancing information management and patient care through collaboration, knowledge sharing, and innovation.

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Nick Hardiker



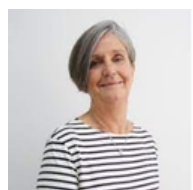
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THE NURSING INFORMATICS EDGE

The Tech Revolution Transforming Patient Care

 **February 2025:** Nursing Informatics is no longer behind the scenes—it's leading the charge in healthcare transformation. With artificial intelligence (AI), machine learning (ML), and digital health advancements redefining clinical workflows, nurses are at the forefront of the tech revolution, ensuring innovation translates into real-world impact.

What's Driving the Shift?

AI-Powered Clinical Decision Support

Smart algorithms are delivering real-time insights, optimizing nurse decision-making, and reducing adverse events. From early sepsis detection to predictive fall-risk analysis, AI is changing bedside care.

Remote Patient Monitoring (RPM) at Scale

Wearable and implantable devices are feeding continuous patient data into EHRs, turning reactive care into proactive intervention—particularly for chronic disease management.

AI-Driven Documentation with Natural Language Processing (NLP)

Automated clinical note analysis is cutting documentation time, extracting critical insights from nurse and physician notes to enhance care coordination and patient outcomes.

Interoperability and Data Standardization

With FHIR (Fast Healthcare Interoperability Resources) adoption accelerating, seamless data exchange is finally becoming a reality—reducing duplicate testing and improving continuity of care.

Cybersecurity in Digital Health

As digital transformation expands, so do cyber threats. Nurse Informaticians are key players in building secure, resilient health systems, implementing zero-trust security frameworks to protect patient data.

As a Nurse Informatician—What Does This Mean for Us?

We are no longer just adopters of technology—we are shaping its future.





This revolution means:

- ✓ Championing AI and automation to reduce cognitive load and improve workflow efficiency.
- ✓ Leading interoperability efforts to ensure patient data flows securely and meaningfully across systems.
- ✓ Safeguarding digital health innovation by embedding cybersecurity best practices into clinical technology.
- ✓ Bridging the gap between technology and frontline care—ensuring solutions work for nurses, not against them.

What's Next?

As AI, predictive analytics, and automation scale up, Nurse Informaticians must drive strategic implementation, ensuring tech enhances—not replaces—clinical expertise. The next challenge? Embedding these advancements into everyday practice while maintaining ethical, safe, and human-centred care.

◆ Page 2: Read the latest research ◆

-  The Ethics of AI in Nursing
-  Workforce Optimization: Are AI Schedulers the Answer?
-  Cybersecurity: What Every Nurse Needs to Know
-  Case Study: AI-Powered Fall Risk Detection in Action

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The Ethics of AI in Nursing: Explore the latest insights into the ethical integration of artificial intelligence in nursing practice. A recent study published in BMC Nursing delves into the ethical frameworks necessary to ensure AI enhances patient care while safeguarding trust and privacy. The research emphasizes the importance of establishing guidelines that address data privacy concerns and biases within AI algorithms.

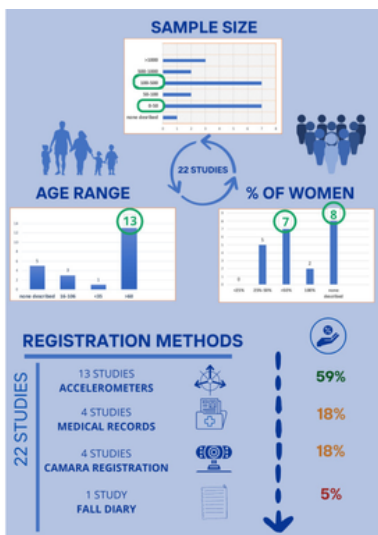
doi.org/10.1186/s12912-025-02798-3



Workforce Optimization: Are AI Schedulers the Answer? Delve into contemporary discussions on AI-based nurse scheduling system. A recent article in the American Nurse Journal provides an overview of how digitization is transforming nursing workforce management, offering insights into the potential benefits and challenges of AI-driven scheduling. <https://www.myamericannurse.com/the-emergence-of-ai-and-practice/>

Cybersecurity: What Every Nurse Needs to Know

Understand the critical role nurses play in cybersecurity within healthcare settings. A recent study published in the Journal of Medical Internet. Research explores clinicians' perspectives on cybersecurity, highlighting its impact on patient safety and organizational functionality. The research underscores the necessity for robust cybersecurity measures and the active involvement of nursing professionals in safeguarding sensitive patient information. [doi: 10.7759/cureus.47026](https://doi.org/10.7759/cureus.47026)



Case Study: AI-Powered Fall Risk Detection in Action Examine the application of AI in preventing falls among older adults. A recent study published in the Journal of Medical Internet Research analyzes the use of AI in assessing fall risk, highlighting how AI technologies can enhance patient safety in nursing homes.

[doi: 10.2196/54934](https://doi.org/10.2196/54934)

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Get Involved: Join a Working Group

Contribute to the future of nursing informatics through specialized panels

Education Advisory Panel (Chair: Max Topaz)

Governance Advisory Panel (Chairs: William Goossen, Laura-Maria Peltonen)

Practice Advisory Panel (Chairs: Janette Gogler, Clair Lunt)

Research Advisory Panel (Chairs: Charlene Ronquillo, Aaron Conway)

How to Join

Visit: IMIA NI Advisory Panels and [complete the form](#).



Get Involved

WHAT'S NEW?**Share Your News!**

Got stories or events to share? Contact us to feature them in the next edition imia@imia-services.org

Some major global Nursing Informatics events expected in 2025 include:

HIMSS Annual Conference: - Las Vegas, NV, America, 3-6 March 2025

35th Medical Informatics Europe Conference (#MIE2025) – Glasgow, Scotland, 19 to 21 May 2025

20th World Congress on Medical and Health Informatics, MedInfo 2025, will be organized by the Taiwan Association for Medical Informatics (TAMI) from August 9 to 13, 2025

NI 2028 Advance Notice: November 2-5, Las Vegas, USA (Theme: "Pushing Boundaries: Digital in a Nursing World")

Thank You for Supporting IMIA NI

Together, we're driving innovation and transforming nursing care worldwide.

Stay connected!

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