

Nursing and Healthcare Education Within AI Era: Towards a Smarter Pedagogical Framework to Face Actual Challenges

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Abstract

Higher education is an evolutionary context demonstrating continuously new engaging expectations to boost the educational system's performance and improve its quality and adaptability to current professional needs. Health care and nursing programs main objective is to develop the theoretical and practical scope of the technical and soft skills to meet the latest health care sector requirements. Therefore, many challenges are facing students and the academic staff as well within the emergence of Artificial Intelligence tools and digitalized systems raising new questions and addressing new learning methodologies. Simulation of diverse clinical situations in an interactive way could enhance the practical learning via the virtual care experience bringing closer the professional environment and allowing to detect and manage student mistakes and observed deviations before the real experience. The AI deployment is effectively bringing out a new pedagogical framework that should balance and optimize the use of AI and digital tools to serve learning purposes without flowing over other real nursing practices or real trainings.

Keywords

Healthcare and nursing education, Artificial Intelligence, pedagogical framework, simulation.

Biography

Salima HAMMADI is a PhD and Professor at the Higher Institute of Nursing professions and Health Techniques of Fez. Teaching and conducting research in education, informatics and industrial engineering transversal disciplines, she addresses new frameworks and approaches aiming at quality and performance boosting with applicability to various sectors (education, healthcare and enterprise systems). She is a member of ROADDEM. She served as a session chair and reviewer for international Conferences and scientific journals (IEOM Paris Conference 2018, IEOM Rome Conference, 2022, ICATH 2024 and International Journal of Production Research). She worked previously as researcher professor at EMSI, Rabat (the Moroccan School of Engineer Sciences), and prior to her current position she served as a part-time professor at the Faculty of Sciences and Techniques of Fez. She also worked as Quality Assurance Manager in a multi-projects environment.