

Journal of Biomedical Advancement Scientific Research

ISSN: 3069-0854

DOI: doi.org/10.63721/25JBASR0115

Bridging the Gap: AI, Data Science, and Evidence-Based Dentistry

Kevin Thamson¹ and Omid Panahi^{2*}

¹University of the Nevada, Reno, Department of Medicine, Virginia, USA ²University of the People, Department of healthcare Management, California, USA

Citation: Kevin Thamson, Omid Panahi (2025) Bridging the Gap: AI, Data Science, and Evidence-Based Dentistry.

J. of Bio Adv Sci Research, 1(2):1-07. WMJ/JBASR-115

Abstract

The burgeoning fields of artificial intelligence (AI) and data science are poised to revolutionize evidence-based dentistry (EBD) by providing unprecedented tools for analyzing vast datasets. Traditionally, EBD has relied on systematic reviews and randomized controlled trials (RCTs), which can be time-consuming and limited in scope. This paper explores how AI and data science can bridge this gap by accelerating the synthesis of scientific literature, identifying novel patterns in patient data, and providing real-time clinical decision support. We discuss the application of machine learning for predicting treatment outcomes, the use of natural language processing (NLP) to mine dental literature, and the integration of big data analytics to uncover insights from electronic health records. By leveraging these technologies, we can move towards a more dynamic and personalized form of EBD, where clinical decisions are informed not only by aggregated population data but also by individual patient characteristics. The paper also addresses the challenges of data quality, privacy, and the need for new frameworks to validate AI-driven evidence. Ultimately, the synergy between AI, data science, and EBD will lead to a more precise, efficient, and predictive era of dental healthcare.

*Corresponding author: Dr. Omid Panahi, University of the Nevada, Reno, Department of Medicine, Virginia, USA.

Submitted: 13.08.2025 **Accepted:** 18.08.2025 **Published:** 25.08.2025

Keywords: Artificial Intelligence, Data Science, Evidence-Based Dentistry, Machine Learning, Natural Language Processing, Big Data, Clinical Decision Support, Personalized Medicine, Dental Healthcare

Introduction

Evidence-based dentistry (EBD) has been the gold standard for clinical decision-making for over two decades. It represents a paradigm shift from reliance on anecdotal experience and expert opinion to a systematic approach that integrates the best available scientific evidence with a dentist's clinical expertise and a patient's values and needs. Traditionally, this process has been driven by the meticulous work of systematic reviews and meta-analyses of randomized

controlled trials (RCTs) [1-25]. While this methodology has been invaluable in establishing foundational knowledge, it is inherently slow, retrospective, and often limited by the scope of existing research. The time it takes to formulate a question, conduct a study, publish the results, and then synthesize that evidence into clinical practice guidelines can be years, if not decades. This time lag, coupled with the difficulty of applying general population-level findings to a specific patient, creates a significant "gap" between the generation of scientific evidence and its practical application at the chairside [26-43].

The advent of artificial intelligence (AI) and data science offers a powerful solution to this problem, promising to bridge this gap and usher in a new era of EBD. The core of this revolution lies in the ability of AI algorithms to process vast, complex datasets far beyond what any human or traditional statistical method can handle and to extract meaningful, actionable insights. This includes not only the synthesis of published literature but also the analysis of a wealth of "big data" from sources like electronic health records (EHRs), dental imaging, and even wearable health devices. By harnessing the power of machine learning, natural language processing, and advanced analytics, dentistry can move from a model of reactive, population-based evidence to a proactive, personalized, and predictive form of care. The synergy between these fields is not about replacing the principles of EBD but about profoundly enhancing them, making evidence more accessible, relevant, and timely for every patient [44-59].

The Pillars of a New Evidence-Based Paradigm

The integration of AI and data science into EBD rests on several key technological pillars. Machine learning is at the forefront, with algorithms that can be trained on millions of data points to recognize subtle patterns that correlate with disease, treatment success, or patient risk. For instance, an ML model trained on thousands of dental radiographs can identify early signs of periapical lesions or bone loss more accurately and consistently than the human eye. This capability extends beyond diagnostics to predictive analytics, where models can forecast the long-term success of a restoration or the likelihood of an orthodontic relapse based on a patient's unique biological and behavioral data [60-72].

Complementing machine learning is natural language processing (NLP), a branch of AI that enables computers to "read" and understand human language. NLP can be used to rapidly and systematically sift through the immense volume of dental literature clinical trial reports, case studies, and patient notes to identify relevant information and summarize key findings. This capability dramatically accelerates the process of systematic reviews, allowing clinicians and researchers to stay up-to-date with the latest evidence with unprecedented speed. Furthermore, NLP can be applied to unstructured data within EHRs, extracting valuable insights from clinical notes that would otherwise be inaccessible for large-scale analysis.

Finally, the concept of big data analytics provides the raw fuel for these AI engines. By aggregating and analyzing data from diverse sources including electronic health records, practice management software, insurance claims, and real-world clinical outcomes data science can uncover epidemiological trends and treatment effectiveness on a massive scale. This moves dentistry toward a "learning healthcare system," where every patient interaction contributes to a growing body of evidence that, in turn, informs and improves future clinical decisions. This new paradigm promises to make EBD more dynamic and personalized. Instead of simply relying on what worked for a general population, dentists will be able to leverage AI-driven insights to understand what is most likely to work for their individual patient, based on a combination of their specific clinical data, and the collective wisdom of millions of others. This is the future of evidence-based dentistry: a collaborative ecosystem where human expertise is empowered by the speed and precision of AI and data science [73-83].

Challenges

While the synergy between AI, data science, and evidence-based dentistry (EBD) offers tremendous promise, its implementation is fraught with significant challenges. These hurdles span ethical, technical, and practical domains, and must be addressed for this new paradigm to be successful.

Ethical and Regulatory Challenges

• **Data Privacy and Security:** The foundation of AI and data science is the collection and analysis of massive datasets, which often include sensitive patient information. This creates a primary

challenge in protecting patient data from breaches and ensuring compliance with regulations like HIPAA.

- Algorithmic Bias: AI models are trained on historical data. If this data is not representative of all patient populations, the algorithms can develop and perpetuate biases, leading to less accurate diagnoses or inequitable treatment recommendations for certain demographic groups.
- Transparency and Accountability: Many AI models are considered "black boxes" because their decision-making processes are opaque. This lack of transparency makes it difficult for dentists to trust the AI's recommendations and for patients to understand how a diagnosis was reached. It also creates a gray area for legal liability in the event of an AI-related error.
- **Informed Consent:** The use of AI in patient care introduces a new layer to the informed consent process. Dentists must be able to clearly explain to patients how AI is being used, its potential benefits, and its limitations, so that consent is truly informed [84-90].

Technical and Implementation Challenges

- Data Quality and Standardization: The effectiveness of AI is highly dependent on the quality of its training data. In dentistry, data is often fragmented, unstructured, and collected using different systems and terminologies. The lack of standardized data formats and a clean, high-quality, and diverse repository of dental data is a major technical barrier.
- Integration with Existing Workflows: AI solutions must seamlessly integrate with a dental practice's existing software, such as electronic health records (EHRs) and practice management systems. Compatibility issues and a steep learning curve can create resistance and hinder adoption.
- Cost and Accessibility: The high cost of developing, purchasing, and maintaining AI technologies can be prohibitive, particularly for smaller, independent practices. This can lead to a technology gap, where only well-funded practices or large dental service organizations can afford to leverage these tools, potentially worsening healthcare disparities.

- Continuous Validation: Unlike a fixed research paper, AI models are continuously learning and evolving. This requires ongoing validation and monitoring to ensure their continued accuracy, reliability, and safety in a clinical setting.
- Lack of AI Literacy: Many dental professionals lack a deep understanding of AI and data science principles. This knowledge gap can lead to an overreliance on AI recommendations without critical human oversight or a failure to properly interpret the probabilistic nature of the AI's output.

Future Works

The future of integrating AI and data science into evidence-based dentistry (EBD) will focus on creating a more dynamic, predictive, and personalized health-care system. To achieve this, several key areas of work are essential.

Advancing Beyond Diagnostics to Personalized, Predictive Care

Future work will move beyond simply detecting disease to predictive and preventative analytics. By combining patient-specific data such as genetics, oral microbiome analysis, and lifestyle factors with large-scale clinical data, AI will be able to forecast a patient's risk of developing conditions like caries or periodontal disease. This will allow for highly personalized, preventive care plans that are proactive rather than reactive. Furthermore, AI will be used to simulate treatment outcomes, enabling dentists to visualize the long-term success of different interventions and customize treatment plans for the best possible results.

Enhancing AI's Role in Research and Education

Future efforts will focus on using AI and data science to accelerate dental research. Natural language processing (NLP) will become a powerful tool for rapidly analyzing and synthesizing vast amounts of scientific literature, dramatically speeding up the systematic review process that is central to EBD. In education, AI will be integrated into dental school curricula to train future professionals in AI literacy, data interpretation, and ethical considerations. AI-powered simulators and virtual reality environments will provide students with hands-on experience and a safe space to practice complex procedures and decision-making.

Developing Robust Ethical and Regulatory Frameworks

A critical area for future work is the establishment of clear ethical guidelines and regulatory standards. This includes creating standardized, diverse, and high-quality datasets to mitigate algorithmic bias and ensure equitable care. The development of Explainable AI (XAI) will be a priority, providing clinicians with a clear understanding of how an AI system arrived at a recommendation. Additionally, new regulatory pathways will be necessary to ensure that AI tools are validated, safe, and effective before they are integrated into routine clinical practice, helping to build trust among both dental professionals and patients.

Conclusion

The future of dentistry is not about replacing human expertise but about augmenting it. AI tools will serve as a co-pilot for clinicians, providing data-driven insights that inform and enhance their decisions. This will create a more dynamic, predictive, and personalized form of EBD, where treatment plans are based on a comprehensive understanding of a patient's unique biological, social, and behavioral data, in addition to general population-level evidence. The successful adoption of this new paradigm, however, requires a proactive approach to addressing the challenges of data quality, transparency, and algorithmic bias. By establishing robust ethical frameworks and fostering a culture of AI literacy among dental professionals, we can ensure that this technological revolution serves to improve health outcomes and equity for all patients.

References

- 1. Omid Panahi, Zahra Shahbazpour (2025) Healthcare Reimagined: AI and the Future of Clinical Practice. Am J Biomed Sci & Res.
- 2. Panahi O (2025) Smart Implants: Integrating Sensors and Data Analytics for Enhanced Patient Care. Dental 7: 22.
- 3. Panahi DU, HOC A (2025) Networks: Applications. Challenges, Future Directions, Scholars' Press, ISBN 978-973.
- 4. Omid Panahi (2024) Teledentistry: Expanding Access to Oral Healthcare. Journal of Dental Science Research Reviews & Reports. SRC/JDSR-203.

- 6. Omid Panahi (2024) "AI: A New Frontier in Oral and Maxillofacial Surgery". Acta Scientific Dental Sciences 8.6: 40-42.
- 7. Omid Panahi, Reza Safaralizadeh (2024) AI and Dental Tissue Engineering: A Potential Powerhouse for Regeneration. Mod Res Dent 8.
- 8. Omid Panahi (2024) Artificial Intelligence: A New Frontier in Periodontology. Mod Res Dent 8.
- 9. Omid P (2024) Empowering Dental Public Health: Leveraging Artificial Intelligence for Improved Oral Healthcare Access and Outcomes. JOJ Pub Health 9: 555754.
- 10. Omid P (2024) Artificial Intelligence in Oral Implantology, Its Applications, Impact and Challenges. Adv Dent & Oral Health 17: 555966.
- 11. Omid Panahi (2024) "AI Ushering in a New Era of Digital Dental-Medicine". Acta Scientific Medical Sciences 8.8: 131-134.
- 12. Panahi O, Zeinaldin M (2024) AI-Assisted Detection of Oral Cancer: A Comparative Analysis. Austin J Pathol Lab Med 10: 1037.
- 13. Panahi O (2024) AI in Surgical Robotics: Case Studies. Austin J Clin Case Rep 11: 1342.
- 14. Panahi O, Zeinaldin M (2024) Digital Dentistry: Revolutionizing Dental Care. J Dent App 10: 1121.
- 15. Panahi O (2025) Wearable Sensors and Personalized Sustainability: Monitoring Health and Environmental Exposures in Real-Time. European Journal of Innovative Studies and Sustainability 1: 1-19.
- 16. Omid Panahi, Sevil Farrokh (2024) USAG-1-Based Therapies: A Paradigm Shift in Dental Medicine. Int J Nurs Health Care 1: 1-4.
- 17. Omid Panahi, Sevil Farrokh (2024) Can AI Heal Us? The Promise of AI-Driven Tissue Engineering. Int J Nurs Health Care 1: 1-4.
- 18. O Panahi (2025) Algorithmic Medicine, Journal of Medical Discoveries 2.
- 19. O Panahi (2025) Deep Learning in Diagnostics, Journal of Medical Discoveries 2.
- 20. Omid P, Soren F (2025) The Digital Double: Data Privacy, Security, and Consent in AI Implants West J Dent Sci 2: 108.
- 21. Panahi O (2023) Ketenci Çay F. NanoTechnology. Regenerative Medicine and Tissue Bio-Engineering. Acta Sci Dent Sci 7: 118-122.
- 22. Panahi O (2025) Smart Robotics for Personalized Dental Implant Solutions. Dental 7.

- 23. Panahi P, Bayılmış C, Çavuşoğlu U, Kaçar S (2021) Performance evaluation of lightweight encryption algorithms for IoT-based applications. Arabian Journal for Science and Engineering 46: 4015-4037.
- 24. Panahi U, Bayılmış C (2023) Enabling secure data transmission for wireless sensor networks based IoT applications. Ain Shams Engineering Journal 14: 101866.
- 25. Omid Panahi, and Uras Panahi (2025) AI-Powered IoT: Transforming Diagnostics and Treatment Planning in Oral Implantology. J AdvArtifIntell Mach Learn 1: 1-4.
- 26. Panahi P, Dehghan M (2008) Multipath Video Transmission Over Ad Hoc Networks Using Layer Coding And Video Caches. In ICEE2008, 16th Iranian Conference On Electrical Engineering 50-55.
- 27. Bakikoyuncu, pejmanpanahi Kalman (2014) Filtering of Link Quality Indicator Values for Position Detection by Using WSNS, Int'l Journal of Computing, Communications & Instrumentation Engg. (IJCCIE) 1.
- 28. Pejman Panahi, Cneyt Baylm (2017) "Car indoor gas detection system", International Conference on Computer Science and Engineering (UBMK.
- 29. Panahi P (2009) Providing consistent global sharing service over VANET using new plan. In 2009 14th International CSI Computer Conference. IEE 213-218.
- 30. Panahi P (2008) Multipath local error management technique over ad hoc networks. In 2008 International Conference on Automated Solutions for Cross Media Content and Multi-Channel Distribution 187-194.
- 31. Dr Uras Panahi, Redes AD HOC: Aplicações, Desafios, Direcções Futuras, Edições Nosso Conhecimento, ISBN: 978-620-8-72962-2.
- 32. Dr Uras Panahi, Sieci AD HOC: Zastosowania, wyzwania, przyszłe kierunki, Wydawnictwo Nasza Wiedza, ISBN: 978-620-8-72967-7.
- 33. Dr Uras Panahi, Reti AD HOC: Applicazioni, sfide e direzioni future, Edizioni Sapienza, ISBN: 978-620-8-72965-3.
- 34. Dr Uras Panahi, Redes AD HOC: Aplicaciones, retos y orientaciones futuras, Ediciones Nuestro Conocimiento, ISBN: 978-620-8-72966-0.
- 35. Dr Uras Panahi, Réseaux AD HOC : Applications, défis et orientations futures, Editions Notre Savoir, ISBN: 978-620-8-72964-6.

36. Dr Uras Panahi, AD HOC-Netze: Anwendungen, Herausforderungen, zukünftige Wege, Verlag Unser Wissen, ISBN: 978-620-8-72963-9.

- 37. Dr Omid Panahi, Dr Faezeh Esmaili, Dr Sasan Kargarnezhad (2024) Künstliche Intelligenz in der Zahnmedizin, Unser wissen Publishing. ISBN: 978-620-3-6722696.
- 38. Dr Omid Panahi, Dr Faezeh Esmaili, Dr Sasan Kargarnezhad (2024) Artificial Intelligence in Dentistry, Scholars Press Publishing. ISBN: 978-620-6772118.
- 39. Dr Omid Panahi, Dr Faezeh Esmaili, Dr Sasan Kargarnezhad (2024) Inteligencia artificial en odontología, NUESTRO CONOC, MENTO Publishing. ISBN: 978-620-6622764.
- 40. Dr Omid Panahi, Dr Faezeh Esmaili, Dr Sasan Kargarnezhad (2024) L'intelligence artificielle dans l'odontologie, EDITION NOTRE SAVOIR Publishing Publishing. ISBN: 978-620-6622771.
- 41. Dr Omid Panahi, Dr Faezeh Esmaili, Dr Sasan Kargarnezhad (2024) Intelligenza artificiale in odontoiatria, SAPIENZA Publishing. ISBN: 978-620-6622788.
- 42. Dr Omid Panahi, Dr Faezeh Esmaili, Dr Sasan Kargarnezhad (2024) Inteligência Artificial em Medicina Dentária, NOSSO CONHECIMENTO Publishing. ISBN: 978-620-6622795.
- 43. Dr Omid Panahi, Dr Sevil Farrokh Eslamlou, Peridontium: Estrutura, função e gestão clínica, ISBN: 978-620-8-74561-5.
- 44. Dr Omid Panahi, Dr Shabnam Dadkhah, AI in der modernen Zahnmedizin, ISBN:978-620-8-74877-7.
- 45. Dr Omid Panahi, Dr Shabnam Dadkhah, La IA en la odontología moderna, ISBN:978-620-8-74881-4.
- 46. Dr Omid Panahi, Dr Shabnam Dadkhah, L'IA dans la dentisterie moderne, ISBN:978-620-8-74882-1.
- 47. Dr Omid Panahi, Dr Shabnam Dadkhah, L'intelligenza artificiale nell'odontoiatria moderna, ISBN:978-620-8-74883-8.
- 48. Dr Omid Panahi, Dr Shabnam Dadkhah, Sztuczna inteligencja w nowoczesnej stomatologii, ISBN:978-620-8-74884-5.
- 49. Dr Omid Panahi, Dr Shabnam Dadkhah, A IA na medicina dentária moderna, ISBN:978-620-8-74885-2.
- 50. Dr Omid Panahi, Dr Sevil Farrokh Eslamlou, Dr Masoumeh Jabbarzadeh, Digitale Zahnmedizin und künstliche Intelligenz, ISBN: 978-620-

- 20-8-73910-2.
- Dr Omid Panahi, Dr Sevil Farrokh Eslamlou, Dr Masoumeh Jabbarzadeh, Odontología digital e inteligencia artificial, ISBN: 978-620-8-73911-9.
- 52. Dr Omid Panahi, Dr Sevil Farrokh Eslamlou, Dr Masoumeh Jabbarzadeh, Dentisterie numérique et intelligence artificielle, ISBN: 978-620-8-73912-6.
- 53. Dr Omid Panahi, Dr Sevil Farrokh Eslamlou, Dr Masoumeh Jabbarzadeh, Odontoiatria digitale e intelligenzaartificiale, ISBN:978-620-8-73913-3.
- 54. Dr Omid Panahi, Dr Sevil Farrokh Eslamlou, Dr Masoumeh Jabbarzadeh, Stomatologia cyfrowa i sztuczna inteligencja, ISBN: 978-620-8-73914-0.
- 55. Dr Omid Panahi, Dr Sevil Farrokh Eslamlou, Dr Masoumeh Jabbarzadeh, Medicina dentária digital e inteligência artificial, ISBN: 978-620-8-73915-7.
- 56. Dr Omid Panahi, Stammzellen aus dem Zahnmark, ISBN: 978-620-4-05355-4.
- 57. Dr Omid Panahi, Células madre de la pulpa dental, ISBN: 978-620-4-05356-1
- 58. Dr Omid Panahi, Стволовые клетки пульпы зуба, ISBN: 978-620-4-05357-8.
- 59. Dr Omid Panahi, Cellules souches de la pulpe dentaire, ISBN: 978-620-4-05358-5.
- 60. Dr Omid Panahi, Cellule staminali della polpa dentaria, ISBN: 978-620-4-05359-2.
- 61. Dr Omid Panahi, Dr Sevil Farrokh Eslamlou, Peridontium: Struktur, Funktion und klinisches Management, ISBN:978-620-8-74556-1.
- 62. Dr Omid Panahi, Dr Sevil Farrokh Eslamlou, Peridoncio: Estructura, función y manejo clínico, ISBN:978-620-8-74557-8.
- 63. Dr Omid Panahi, Dr Sevil Farrokh Eslamlou, Le péridontium : Structure, fonction et gestion clinique, ISBN:978-620-8-74558-5.
- 64. Dr Omid Panahi, Dr Sevil Farrokh Eslamlou, Peridonio: Struttura, funzione e gestione clinica, ISBN:978-620-8-74559-2.
- 65. Dr Omid Panahi, Dr Sevil Farrokh Eslamlou, Peridontium: Struktura, funkcja i postępowanie kliniczne, ISBN:978-620-8-74560-8.
- 66. Maryam Gholizadeh, Dr Omid Panahi (2021) Sistema de Investigação em Sistemas de Informação de Gestão de Saúde, NOSSO CONHECI-MENTO Publishing. ISBN: 978-620-3-67052-3.
- 67. Maryam Gholizadeh, Dr Omid Panahi (2021) Research system in health management

- information systems, SCIENCIA SCRIPTS Publishing. ISBN: 978-620-3-67053-0.
- 68. Dr Leila Ostovar, Dr Kamal Khadem Vatan, Dr Omid Panahi (2020) Clinical Outcome of Thrombolytic Therapy, Scholars Press Academic Publishing. ISBN: 978-613-8- 92417-3.
- 69. Maryam Gholizadeh, Dr Omid Panahi (2021) Investigating System in Health Management Information Systems, Scholars Press Academic Publishing. ISBN: 978-613-8-95240-4.
- 70. Maryam Gholizadeh, Dr Omid Panahi (2021) Untersuchungssystem im Gesund heits management Informations systeme, Unser wissen Publishing. ISBN: 978-620-3-67046-2.
- 71. Maryam Gholizadeh, Dr Omid Panahi (2021) Sistema de investigación en sistemas de información de gestión sanitaria, NUESTRO CONOC, MENTO Publishing. ISBN: 978-620-3-67047-9.
- 72. Maryam Gholizadeh, Dr Omid Panahi (2021) Système d'investigation dans les systèmes d'information de gestion de la santé, EDITION NOTRE SAVOIR Publishing. ISBN: 978-620-3-67048-6.
- 73. Maryam Gholizadeh, Dr Omid Panahi (2021) Indagare il sistema nei sistemi informativi di gestione della salute, SAPIENZA Publishing. ISBN: 978-620-3-67049-3.
- 74. Maryam Gholizadeh, Dr Omid Panahi (2021) Systeemonderzoek in Informatiesystemen voor Gezondheidsbeheer, ONZE KENNIS Publishing. ISBN: 978-620-3-67050-9.
- 75. Maryam Gholizadeh, Dr Omid Panahi (2021) System badawczy w systemach informacyjnych zarządzania zdrowiem, NAZSA WIEDZA Publishing. ISBN: 978-620-3-67051-6.
- 76. Dr Omid Panahi, Dr Faezeh Esmaili, Dr Sasan Kargarnezhad (2024) Искусственный интеллект в стоматологии, SCIENCIA SCRIPTS Publishing. ISBN: 978-620-6622801.
- 77. Dr Shima Esmaielzadeh, Dr Omid Panahi, Dr Fatmanur Ketenci Çay (2020) Application of Clay's in Drug Delivery in Dental Medicine, Scholars Press Academic Publishing. ISBN:978-613-8-94058-6.
- 78. Panahi O (2025) The evolving partnership: surgeons and robots in the maxillofacial operating room of the future. J Dent Sci Oral Care 1: 1-7.
- 79. O. Panahi (2025) The Future of Medicine: Converging Technologies and Human Health. Journal of Bio-Med and Clinical Research. RPC Publishers 2.

- 80. O Panahi (2025) Nanomedicine: Tiny Technologies, Big Impact on Health. Journal of Bio-Med and Clinical Research. RPC Publishers 2
- 81. O Panahi (2025) The Age of Longevity: Medical Advances and The Extension of Human Life. Journal of Bio-Med and Clinical Research. RPC Publishers 2.
- 82. Panahi O (2025) Predictive Health in Communities: Leveraging AI for Early Intervention and Prevention. Ann Community Med Prim Health Care 3: 1027.
- 83. Panahi O (2025) Digital Health Equity: Leveraging IT and AI for Community Well-being. Ann Community Med Prim Health Care 3: 1028.
- 84. Koyuncu B, Gokce A, Panahi P (2015) The use of the Unity game engine in the reconstruction of an archeological site. In 19th Symposium on Mediterranean Archaeology (SOMA 2015) 95-103.

- 85. Koyuncu B, Meral E, Panahi P (2015) Real time geolocation tracking by using GPS+G-PRS and Arduino based SIM908. IFR-SA International Journal of Electronics Circuits and Systems (IIJECS) 4: 148-150.
- 86. KoyuncuB, UğurB, Panahi P(2013) Indoor location determination by using RFIDs. International Journal of Mobile and Adhoc Network (IJMAN) 3:7-11.
- 87. Omid Panahi (2025) The Impact of Artificial Intelligence in Medical Diagnosis. Int J Nurs Health Care 2: 1-4.
- 88. Omid Panahi (2025) The AI Revolution in Healthcare. Int J Nurs Health Care 2: 1-4.
- 89. Omid Panahi (2025) Beyond the Bedside: How Future Tech is Revolutionizing Medical Care. Int J Nurs Health Care 2: 1-4.
- 90. Omid Panahi (2025) The Algorithmic Clinician: AI's Transformative Role in Modern Medicine. Int J Nurs Health Care 2: 1-4.

Copyright: ©2025 Omid Panahi. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.