Artificial Intelligence in Biomedical Engineering and Its Applications — D. Tripathi, S. Metha, et al. Biosensors (MDPI) 2025.

Provides an overview of how AI is transforming biomedical engineering, including diagnostics, biosensors, imaging, and continuous monitoring.

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Surveying ~180 academic works, this review covers the broad use of AI in healthcare, its methodologies, the benefits, and the challenges of its implementation.
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Focus on how AI and ML contribute to key areas in biomedical engineering: device innovation, data analysis, predictive medicine, etc.
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A Systematic Review of the Integration of Information Science, Artificial Intelligence, and Medical Engineering in Healthcare: Current Trends and Future Directions — S. G. Hashemi Fotemi, N. Reddy Mannuru, et al. InfoScience Trends (2024).

Interdisciplinary review covering how information science + AI + medical engineering come together; discusses data integration, devices, and future challenges.
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The Evolving Regulatory Paradigm of AI in MedTech: A Review of Perspectives and Where We Are Today — K. Zhou & G. Gattinger. Therapeutic Innovation & Regulatory Science (2024).

Examines key stakeholders, regulatory challenges, and the global regulatory landscape for AI-enabled medical devices.
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Artificial Intelligence-Based Software as a Medical Device (AI-SaMD): A Systematic Literature Review — S. A. Ebad, et al. Healthcare (MDPI) (2025).

Focuses specifically on software (not hardware) medical devices powered by AI: validation, regulation, data governance, and clinical integration.
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