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**Handbook of Research on Instructional Technologies in Health Education and Allied Disciplines** • Pages 130 - 152 • 13 March 2023

## The intersection of artificial intelligence, telemedicine, and neurophysiology: Opportunities and challenges

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### Abstract

The technical-scientific area of neurophysiology has seen significant advancements in recent years, with the introduction of new technologies aimed at improving the diagnosis, treatment, and management of neurological conditions. However, these advancements resulted in significant repercussions in terms of specificity and sensitivity, diagnostic accuracy, and prognosis in more specific situations, particularly in the integration of artificial intelligence (AI) and telemedicine. In this chapter, the authors aim to explore the current state of neurophysiology and examine the role of AI and telemedicine in addressing the challenges faced by this field. The authors will delve into the potential benefits and limitations of these technologies and their impact on patient outcomes, healthcare delivery, and the future of neurophysiology. The chapter's goal is to provide a comprehensive overview of the challenges and potentialities of AI and telemedicine in neurophysiology, highlighting their significance in advancing the field and improving patient care. © 2023, IGI Global. All rights reserved.

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