

Computational NeuroSurgery

Computational neurosurgery is a novel translational field where computational modeling and artificial intelligence are used to improve the diagnosis, treatment, and prognosis of patients affected by diseases of neurosurgical relevance. By laying the foundations of the field, this chapter summarizes the main aspects and implications of artificial intelligence in the clinical neurosciences, with particular emphasis on the necessity to provide an augmented intelligence (AI+) framework to be implemented in modern and future healthcare, aimed to improve the knowledge of the brain, in all its physiopathological spectrum, and to enhance the understanding and treatment of neurological and neurosurgical diseases. ¹⁾

Data scientist

¹⁾

Di Ieva A, Suero Molina E, Liu S, Russo C. Computational Neurosurgery: Foundation. Adv Exp Med Biol. 2024;1462:1-8. doi: 10.1007/978-3-031-64892-2_1. PMID: 39523256.

From:

<https://neurosurgerywiki.com/wiki/> - **Neurosurgery Wiki**

Permanent link:

https://neurosurgerywiki.com/wiki/doku.php?id=computational_neurosurgery

Last update: **2025/02/18 21:44**

