## **Special Issue**

## Clinical Application of Augmented Reality (AR) in Neurosurgery

### Message from the Guest Editors

Extended reality (XR) technologies have gained increasing attention in medical research in recent years. This has opened the way for various applications ranging from education and training to preoperative planning and intraoperative use. One of the specialties most heavily reliant on sophisticated imaging, neurosurgery, has been at the forefront of research and development related to this technology. However, AR is frequently met with hesitance among clinicians due to several technical challenges. Thus, much work remains to be carried out for its seamless integration into the neurosurgeon's workflow and for its full potential to be realized.Specific themes may include but are not limited to: AR-assisted preoperative planning; AR-assisted multimodal neuronavigation; Intraoperative use of AR in cranial and spinal neurosurgery; AR-assisted neuroanatomy education; Use of microscopemediated heads-up displays and head-mounted displays in the neurosurgical operating theater. We very much look forward to your contributions.

### **Guest Editors**

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#### Deadline for manuscript submissions

closed (30 April 2024)



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