Details

Location: INI, Rudolf-Pichlmayr-Str. 4

Time: 09:00 – 14:00

Fee: 100,- Euro

Booking: https://eveeno.com/250590758

Support

BRAINLAB

HNO Förderverein

MHH Hannover Medical School

INI - INTERNATIONAL NEUROSCIENCE INSTITUTE ® - HANNOVER

Virtual & mixed reality in skull base surgery

Mittwoch, 11. Oktober 2023
Wednesday, October 11th, 2023

INI International Neuroscience Institute
Rudolf-Pichlmayr-Straße 4
30625 Hannover

Faculty:

Prof. Amir Samii, INI Hannover

Prof. İhsan Solaroğlu, Ankara

Dr. Göktug Akyoldas, Ankara

Dr. Oguz Baran, Ankara

Dr. Mario Giordano, INI Hannover

Virtual reality & mixed reality in skull base surgery

Programm

Course description:
The virtual reality-based neuroanatomy course offers participants a unique experience compared to previous courses. The undeniable value of hands-on cadaver courses in enhancing surgical anatomy knowledge is well-recognized.
Furthermore, taking advantage of technology, this course presents an opportunity for virtual dissection using 3D models of cadavers through virtual reality and/or augmented reality.
In this course, attendees will acquire knowledge of the brain's white matter pathways by exploring real cadavers through VR technology.
Additionally, utilizing 3D reconstructions, attendees will have the chance to observe the skull base and vascular anatomy of the brain in virtual reality setting

9:00 – 9:15	Welcome and Introduction	Samii, Solarogly
9:15 – 9:45	The Role of Imaging & Visualization in Neurosurgery	Samii
9:45 – 10:45	Lecture, live demonstration and hands-on: Neuroanatomy Training by Augmented / Virtual Reality	Solarogly Baran, Akyoldas
10:45 – 11:00	Live demonstration: Postprocessing of Imaging Data for Surgical Planning	Giordano
11:00 – 11:30	Break	
11:30 – 12:15	VR Planning for a Skull Base Tumour Case	Giordano
12:15 – 12:30	Introduction to the VR system	Faculty
12:30 – 13:10	Hand-on VR for Skull Base Lesion	Faculty
13:10 – 13:50	Hands-on VR for intrinsic Brain Lesion	Faculty
13:50 – 14:00	Conclusion	Samii
14:00	Lunch	