



تجمع الرياض الصحي الثاني
Riyadh Second Health Cluster

19TH ANNUAL MEETING OF
THE SAUDI ASSOCIATION OF NEUROLOGICAL SURGERY

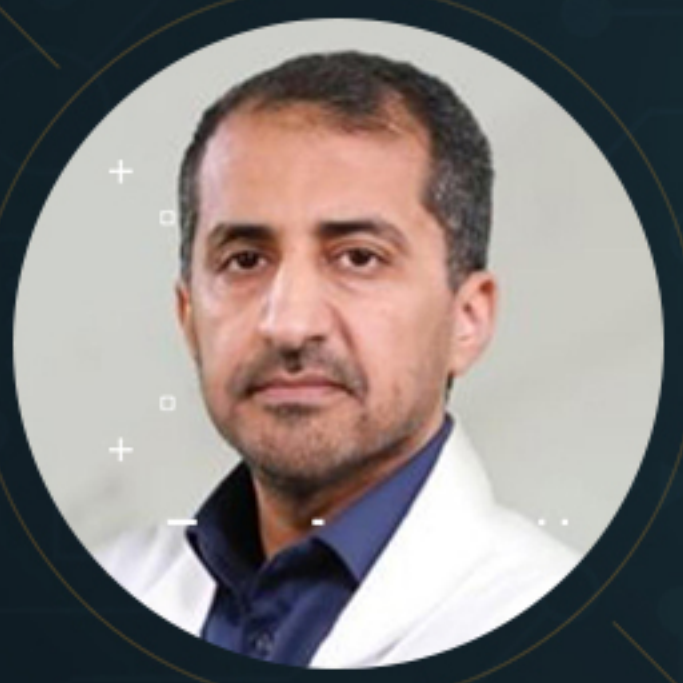
**AI: REVOLUTIONIZING
NEUROSURGICAL FRONTIERS**

Neuroimaging Processing and Integration

Lecture & Hands- on course

| Duration: 7 - 8 hours | Schedule: 31st January, 2025

Faculties:



Dr. Abdullah AlOtaibi



Prof. Lahbib Soualmi



Dr. Adnan AlWatban



Dr. Fahd Alsubaie



Course Requirement:

Bring your own
Laptop



4 CME
ACCREDITED

POWERED BY
KonoRetaj



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AI ■ REVOLUTIONIZING
■ NEUROSURGICAL FRONTIERS

Target Audience

Medical students, neurology residents, neurosurgery residents, psychiatry residents, researcher, neurologist, neurosurgeons, psychiatrist, psychologist, biomedical engineering, and computer science.

Background

Now a day advanced neuroimaging processing is fundamental in all fields of neuroscience whether clinical, research, training or technical/industrial. This made neuroimaging processing related skills to be an essential competency in neuroscience related practice, training, research and technology. With the development of stereotactic and volumetric neuroimaging as well as neuro-segmentation software; creation of 3D mapping of normal and abnormal brain structures is fundamental understanding tool.

Segmenting the brain structure provide in-depth evaluation of brain anatomy of interest that can be objectively assessed, improved and studied further. Hence comes the neuroimaging processing and integration course that bring all these elements of knowledge and hand-on training to qualify independent and validated practitioner and researcher.



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Time	Topic	Speaker
08:00 - 08:15	Introduction	Dr. Abdullah AlOtaibi
08:15 - 08:45	MRI physics	Dr. Adnan AlWatban
08:45 - 09:00	Break	
09:00 - 09:30	Fundamental of streataxy	Dr. Fahd AlSubaie
09:30 - 10:00	Brain Atlases	Dr. Fahd AlSubaie
10:00 - 10:30	Neuroimage processing	Prof. Lahbib Soualmi
10:30 - 11:00	Image processing softwares	Dr. Abdullah AlOtaibi
11:00 - 11:30	Volumetric analysis	Dr. Fahd AlSubaie
11:30 - 13:00	Jumaa prayer time	
13:00 - 13:30	Functional anisotropy	Dr. Abdullah AlOtaibi
13:30 - 14:00	Tractography	Prof. Lahbib Soualmi
14:00 - 14:30	Functional MRI	Dr. Abdullah AlOtaibi
14:30 - 15:00	Neuronavigation	Prof. Lahbib Soualmi
15:00 - 15:15	Break	
15:15 - 17:00	Full Hand-on Stations	
25 mins	Neuronavigation	Prof. Lahbib Soualmi
25 mins	Volumetri analysis	Dr. Fahd AlSubaie
25 mins	Brain segmentation	Dr. Abdullah AlOtaibi
25 mins	MATLAB	Dr. Adnan AlWatban



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