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VIRTUCARE ACADEMY

WEBINAR

VOLUME CALCULATION AND THREE DIMENSIONAL MODELING IN TI BRAIN MR IMAGES USING WEB-BASED SYSTEMS

27-28 NOVEMBER 2024
08:00 PM (GMT+3)

INFORMATION BOOKLET

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Volume Calculation and Three Dimensional Modeling In TI Brain MR Images Using Web-based Systems Webinar

Dear Medical Imaging Professional,

We are pleased to invite you to a highly specialized learning experience tailored for advanced practitioners in medical imaging. Join us for the Volume Calculation and Three Dimensional Modeling in TI Brain MR Images Using Web-based Systems Webinar, an in-depth, two-day event designed to provide you with the latest insights and tools for precise imaging analysis. This webinar, scheduled for November 27-28, 2024, offers a unique opportunity to master cutting-edge methodologies in volume calculation and 3D modeling, all from the convenience of your own workspace. Our program features two immersive days of lectures, real cases demonstrations, and case discussions. Led by renowned experts in the field, you will explore advanced techniques for measuring volumes and constructing 3D models in TI Brain MR images using state-of-the-art web-based tools such as 3D Slicer and ITK-SNAP.

Key areas of focus include:
Introduction to volume calculations, overview of length, area, and angle measurements in MR and CT images, and a detailed presentation of 3D modeling using TI Brain MR images. Participants will be guided through interactive sessions, enabling them to practice these techniques with live demonstrations.

Learning Objectives:
1. In this course, volbrain and mricloud, which are web-based volume calculation systems on brain MR T1 images, will be applied and learned.
2. Will make length and area measurements on brain MR T1-weighted images using ITKSnap and will be shown and practiced the recording process of the images.
3. Learn how the volumes of subcortical structures in the brain are obtained and how they are visualized in three dimensions,
4. Learn how to obtain volume and cortical thickness values of cerebellum lobules
5. Learn how the volumes of parts of the hippocampus are obtained
6.Learn how to obtain volume values of thalamus nuclei
7. learn and interpret the acquisition of asymmetry values of structures in the whole brain
8. ITKSnap and MricroGL programs for three-dimensional visualization will be learned and applied.
9. Sample papers on the subject will be shown and discussed.

Each session is designed to foster a participatory learning environment, featuring dynamic Q&A segments where you can engage directly with our expert panel. This will allow you to clarify concepts, ask in-depth questions, and discuss the practical applications of the techniques covered.

Convenience of Online Learning:
Accessible from anywhere in the world, this webinar provides you with the flexibility to enhance your skills without the need for travel. Whether you are attending from your office or home, the webinar offers a convenient and efficient way to stay at the forefront of medical imaging innovation.
By the end of this webinar, participants will have a solid foundation in volume calculation and 3D modeling techniques, empowering them to integrate these advanced methodologies into their clinical practice. This training is invaluable for professionals looking to optimize patient care through more accurate diagnostic imaging.

Register Now:
Don’t miss this opportunity to advance your skills in TI Brain MR imaging. Join us for this informative and interactive webinar and connect with peers and experts in the field. Secure your place today for the Volume Calculation and Three Dimensional Modeling Webinar, and take a step forward in your professional development.
We look forward to welcoming you on November 27-28, 2024 for this transformative educational experience!

27 NOVEMBER 2024

Volbrain and Mricloud

08:00-08:30 PM	Opening and introduction
08:30-09:00 PM	Brief MRI information
09:15-10:00 PM	Introduction to volbrain and mricloud (Registration, Mr t1 conversion of files to niftii.gz for volbrain, Mr t1 conversion of files to hdr and img for Mricloud)
10:15-11:00 PM	Obtaining the volumes of subcortical structures and three-dimensional representation with Itksnap and MricroGL
11:15-12:00 PM	Obtaining the volumes of hippocampal subfields structures and three-dimensional representation with Itksnap
12:00-12:45 PM	Applications
12:45-13:00 PM	Discussion

HOURSE: (GMT +3)

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Volbrain and Mricloud

08:00-08:45 PM	Obtaining the volumes of cerebellar subfields structures and three-dimensional representation with Itksnap
09:00-09:45 PM	Obtaining the volumes of thalamic nuclei and three-dimensional representation with Itksnap
10:00-10:45 PM	Obtaining the volumes of brain structure for mricloud and three-dimensional representation with Itksnap
11:00-12:00 PM	Applications
12:15-12:45 PM	Discussion and Closing

HOURSE: (GMT +3)

INSTRUCTOR

Prof. Dr. Niyazi ACER

Niyazi Acer is a professor at the Department of Anatomy, Istanbul Arel University School of Medicine. He completed his undergraduate education at Anadolu University, Faculty of Business (1997) and at İnönü University, Malatya Health Academy (2010). He received his master's and doctorate degrees from Erciyes University, Institute of Health Sciences, Department of Anatomy in 2000 and 2004, respectively.

He furthered his career with postdoctoral research at Johns Hopkins University, Department of Neuroradiology (2012-2013) and Department of Otolaryngology (2014-2015).

His research areas include human anatomy, neuroanatomy, brain imaging, structural MRI data analysis, DTI and fMRI data analysis, neurostereology, pineal gland, and pituitary anatomy. He is recognized for his contributions to medical sciences and human anatomy throughout his academic career.

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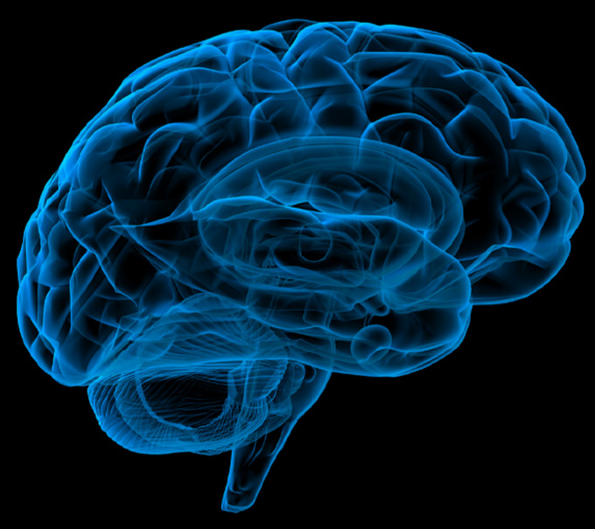

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