IEEE ICSP'24 & 5th Sino-French Workshop 2024
"Medical Image Analysis and AI (MAI)"

Program

PT: Paris time/**BT:** Beijing time=PT+6h **(**8:00am PT/2:00pm BT)

October 30, 2024 (7:55am PT/1:55pm BT)

7:55am PT Introduction to MAI special session:
Patrick CLARYSSE (CREATIS, Université de Lyon), Lihui WANG (Guizhou University)

Oral session 1, Diffusion MRI and US imaging. Chairs: Haifeng LI, Patrick CLARYSSE

8:00am PT: Accelerating cardiac DTI using 3D swinGAN- based multi-directional joint reconstruction
Hexiang WANG et al.
Northeast Forestry University, Harbin, China.

8:15am PT: Self-supervised fast reconstruction method for diffusion MRI based on multi-directional assistance
Yuxin WU et al.
Guizhou University, China ; CREATIS, Université de Lyon, France.

8:30am PT: Inverse Problem of Ultrasound Beamforming With Non-Local Structure Tensor Total Variation,
Zhiyuan LI et al.
CREATIS, Université de Lyon, France; Harbin Institute of Technology, China.

8:45am PT: Multi-scale cyclical similarity prototype refinement for few-shot breast ultrasound image segmentation
Yingfeng OU et al.
Guizhou University, China.

Oral session 2, Neural Network methodology / MRI-fMRI. Chair: Lihui WANG, Su RUAN

09:00am PT: Padé-ResNet: Improving the Accuracy and Stability of Medical Image Classification
Hongjia ZHU et al.
Harbin Institute of Technology, China

09:15am PT: Methodology for Estimating 3D Respiration in Heart from Free Breathing MRI Acquisitions
Zinan LIU et al.
CREATIS, Université de Lyon, France; Shanghai University, China

09:30am PT: Graph Network Modeling of Brain Connectivity: An Exploration of Word and Object Recognition Tasks
Wenhao JIANG et al.
Harbin Institute of Technology, China

09:45am PT: *Break*

Oral session 3, Analysis in other imaging modalities. Chair: François VARRAY + Yue ZHAO

10:15am PT: Investigating the 3D cardiomyocyte arrangement in human interventricular septum sample using X-ray phase-contrast microtomography
Wenfeng LI et al.
Zhengzhou University of Science and Technology, China

10:30am PT: DFGET: Displacement-Field Assisted Graph Energy Transmitter for Gland Instance Segmentation
Caiqing JIAN et al.
Guizhou University, China

10:45am PT: In Silico Dynamic Dual-Tracer PET Image Separation for Prostate Cancer Diagnosis using Deep Learning
Léo MOTTAY et al.
University of Rouen-Normandy, France

Oral session 4, MRI segmentation and classification. Chair: Benjamin LEPORCQ + Hongjiang WEI

11:00am PT: Tumor State-Space Network for High- and Low-Grade Glioma Classification
Qijian CHEN et al.
College of Computer Science and Technology, Guizhou University ; CREATIS, Université de Lyon

11:15am PT: Comparative analysis of three advanced deep learning algorithms for Multiple Sclerosis lesion segmentation in FLAIR MRI
Yi ZHU et al.
CREATIS, Université de Lyon

11:30am PT: Penta-Encoder with Medical Transformer for Incomplete Multimodal Learning of Brain Tumor Segmentation
Guohui YU et al.
College of Computer Science and Technology, Guizhou University ; CREATIS, Université de Lyon

11:45am PT: Deep Learning Based Multiclass Tumor Identification and Classification Using Fusion of CNN Models
Zubair SAEED et al.
Texas A&M University, College Station & Hamad Bin Khalifa University, Doha

12:00am PT: End of the workshop.