



MAI-23 Program

Attendance to the workshop is free but registration required on the workshop website:

<https://mai-23.sciencesconf.org/>

BT: Beijing time; **PT:** Paris time=BT-7h (2:00pm BT /7:00am PT)

November 22, 2023 (2:00pm BT/7:00am PT)

Link for the oral presentation:

<https://cnrs.zoom.us/j/95155756616?pwd=UDJsK2xzOG5tRnVTL0JZVTdBV29UQT09>

Meeting ID: 951 5575 6616

Link for the poster room:

- <https://app.spatial.chat/invite/g/jVoTACG6ucz0KuPAaHdc>

01:45pm BT: Welcome coffee (room 307)

01:55pm BT: Introduction to MAI Workshop: Wanyu LIU, Patrick CLARYSSE, Yuemin ZHU (room 606)

Oral session 1, Methodological aspects of deep learning. Chair: Lihui WANG (Guizhou University)

02:00pm BT: Comparative Analysis of Loss Functions in Deep Convolutional Networks
Wenhao JIANG et al.
HIT, China

02:15pm BT: Deep Reinforcement Learning and Dempster-Shafer Theory
Yucheng GAN et al.
Shanghai University, China

02:30pm BT: Hamiltonian Variational Autoencoder for the simultaneous generation of medical images
Aghiles KEBAILI et al.
LITIS, University of Rouen, France

Oral session 2, Classification, Segmentation, Fusion. Chair: Su RUAN (University of Rouen)

02:45pm BT: AdaFuse: Adaptive Medical Image Fusion Based on Spatial-Frequency Cross Attention
Gu Xianming et al.
Guizhou University, China

03:00pm BT: Explainable classification of histopathological breast cancer images
Feng HE et al.
HIT, China & CREATIS, Univ. Lyon, France

03:15pm BT: Semantic difference guidance for the uncertain boundary segmentation of CT left atrial appendage
Xin YOU et al.
Shanghai Jiatong University, China

Coffee Break + group picture + Poster session (see list below, room 206): 03:30-04-45pm BT

Oral session 3, Registration, Brain MRI, Cardiac MRI. Chair: Hongjiang WEI (Shanghai Jiaotong University)

04:45pm BT: Feature-fusion Cross-pseudo-supervised Model for Semi-supervised 3D COVID-19

Yulun WU et al.

Shanghai University, China

05:00pm BT: Influence of the respiratory phase onto cardiac motion from DENSE MRI

Zinan LIU et al.

CREATIS, Univ. Lyon, France & Shanghai University, China

05:15pm BT: Prognostic Pipeline Models for Unilateral Stroke Recovery

Zhimin SHAO et al.

Tsinghua University, China

05:30pm BT: EFormer: Efficient Transformer for Image Registration based on Frequency Division and Board Attention

Xingyu HUANG et al.

Guizhou University, China

05:45pm BT: Conclusion/End of the scientific session.

06:00pm BT: Diner on the Shanghai University campus

November 23, 2023 (2:00pm BT/7:00am PT, room 306)

Link for the meeting:

<https://cnrs.zoom.us/j/93677659262?pwd=RU1ZcnNnZjBMS2dHTnl2TEUya2IrQT09>

Meeting ID: 936 7765 9262

The future of METISLAB

2:00pm BT: Introduction by Wanyu LIU, Yuemin ZHU, Patrick CLARYSSE

2:10pm BT: Intervention of Consul Général de France à Shanghai

2:25pm BT: Intervention of Mme NIE qing, VP Shanghai University

2:40pm BT: Intervention of Mr Philippe ARNAUD, Director of the CNRS office in Beijing

2:55pm BT: Intervention of Mr Damien FABRÈGUE, VP INSA-Lyon

3:10pm BT: Coffee break

3:30pm BT: Presentations by potential partners and open discussion

MAI-23 Poster session on Nov. 22
03:30-04:45pm BT (Room 206)

1. A Spiking Neural Network for Medical Image Classification
Zexi LIU et al.
HIT, China
2. Contrastive Cross Class Consistency Learning for Semi-Supervised Medical Image Segmentation
Yingfeng OU et al.
Guizhou University, China & CREATIS, Univ. Lyon, France
3. Diverse Perception Meta Prompt: An Image Detection Method Enhancing Low-Sample Medical Data
Zhouyang XU et al.
HIT, China
4. Learn to Generalize: A New Meta-Learning Method for Zero-Calibration Cross-Subject EEG Classification
Wenchao LIU et al.
HIT, China
5. Multi source Unsupervised Domain Adaptation for Micro expression Recognition
Yuhon HE et al.
HIT, China
6. Photoacoustic tomography based on improved regularization inversion strategy
Ying ZHAO et al.
HIT, China
7. Restricted Maxout Neural Networks And Shallowization Method
Guangyu et al.
HIT, China
8. Optimizing MRI parameters for cardiac tissue water diffusion measurement
Jing YUHAN et al.
CREATIS, Univ. Lyon, France
9. Using machine learning method to predict treatment pathway in Systemic Lupus Erythematosus
Fang WANG et al.
King's College London, UK & Zaozhuang University, China
10. Multi-task Collaborative Framework for Joint Image Resolution Improvement and Pulmonary Infection Monitoring on Low-Resolution Chest CT
Xianglin MENG et al.
HMU, China
11. Simulation-driven learning: A deep learning approach for image scanning microscopy via physical imaging models
Baoyuan ZHANG et al.
HIT, China
12. Dempster-Shafer Theory Empowered Deep Learning for Enhanced 3D PET-CT Medical Image Segmentation
Siyuan GU et al.
Shanghai University, China