

Tentative On-site schedule for MICCAI Brain-Lesion (BrainLes) 2019 workshop (17 October 2019)

Brain-Lesion workshop (BrainLes)

Brain Tumor Segmentation (BraTS) Challenge

Brain Tumor Classification Using Combined Radiology and Histopathology (CPM-RadPath) Challenge

08:00-09:30 BrainLes Session 1

- 08:00-08:05 :: Introduction to the BrainLes workshop
Spyridon Bakas (University of Pennsylvania)
- 08:05-08:15 :: Global and Local Multi-Scale Feature Fusion Enhancement for Brain Tumor Segmentation and Pancreas Segmentation
Huan Wang, et al.,
- 08:15-08:25 :: Convolutional 3D to 2D Patch Conversion for Pixel-wise Glioma Segmentation in MRI Scans
Mohammad Hamghalam, et al.,
- 08:25-08:35 :: Deep Learning for Brain Tumor Segmentation in Radiosurgery: Prospective Clinical Evaluation
Boris Shirokikh, et al.,
- 08:35-08:45 :: Skull-stripping of Glioblastoma MRI Scans using 3D Deep Learning
Siddhesh Thakur, et al.,
- 08:45-08:55 :: TBI Lesion Segmentation in Head CT: Impact of Preprocessing and Data Augmentation
Miguel A.B. Monteiro, et al.,
- 08:55-09:05 :: Optimization with Soft Dice can Lead to a Volumetric Bias
Jeroen Bertels, et al.,
- 09:05-09:30 :: **TBA**
Invited Speaker: Yarin Gal (Oxford University)

09:30-10:00 :: Coffee break

10:00-11:30 BrainLes Session 2 (BraTS Challenge)

- 10:00-10:20 :: BraTS Challenge: Overview, Summary Statistics, and Ranking Approach
Spyridon Bakas (University of Pennsylvania)
- 10:20-10:35 :: Investigating the Uncertainty in Segmentations (Shedding light to BraTS task 3)
Raghav Mehta (McGill University)
- 10:35-11:15 :: Oral presentations of top-performing BraTS methods
- 11:15-11:30 :: Final results / Awards / Discussion

11:30-14:00 :: Lunch break & Poster session

14:00-15:30 BrainLes Session 3

- 14:00-14:05 :: Welcome to the 2nd half of the BrainLes workshop
Spyridon Bakas (University of Pennsylvania)
- 14:05-14:30 :: **Computational imaging in Neuro-oncology: Opportunities for Precision Medicine**
Invited Speaker: Pallavi Tiwari (Case Western Reserve University)
- 14:30-14:40 :: Towards Population-based Histologic Stain Normalization of Glioblastoma
Caleb Grenko, et al.,
- 14:40-14:50 :: Estimation of the principal ischaemic stroke growth directions for predicting tissue outcomes
Christian Lucas
- 14:50-15:00 :: Predicting Clinical Outcome of Stroke Patients with Tractographic Feature
Po-Yu Kao, et al.,
- 15:00-15:10 :: Saliency Based Deep Neural Network for Automatic Detection of Gadolinium-Enhancing Multiple Sclerosis Lesions in Brain MRI
Joshua D Durso-Finley, et al.,
- 15:10-15:20 :: Improved inter-scanner MS lesion segmentation by adversarial training on longitudinal data
Mattias Billast, et al.,
- 15:20-15:30 :: Aneurysm identification in cerebral models with multiview convolutional neural network
Xingce Wang, et al.,

15:30-16:30 :: Coffee break & Poster Session

16:30-18:00 BrainLes Session 4 (CPM-RadPath Challenge)

- 16:30-16:45 :: CPM-RadPath Challenge: Overview, Summary Statistics, and Ranking Approach
Tahsin Kurc (Stony Brook University)
- 16:45-17:30 :: Oral presentations of top-performing CPM-RadPath methods
- 17:30-18:00 :: Final results / Awards / Discussion