

2nd Joint workshop on Medical Imaging

Date: Dec. 4, 2017 (Mon) 9:00-12:00

Venue: Faculty Meeting Room 1, Creation Core,
College of Information Science and Engineering, BKC, Ritsumeikan University, Shiga

9:00-9:10 Welcome Speech and Brief Introduction of Research Center (Advanced ICT for Medicine and Healthcare)

Prof. Yen-Wei Chen (Director, Research Center of Advanced ICT for Medicine and Healthcare, Ritsumeikan Univ.)

9:10-9:50 Invited Talks (Chair: Prof. Yen-Wei Chen)

Prof. Lanfen Lin (Prof. College of Computer Science and Tech., Zhejiang University, China)

Title: Artificial Intelligence for Medicine and Research Activities at Zhejiang University

Prof. Qiaowei Zhang (Associate Prof., Medical School, Zhejiang University, China)

Title: New Trends of Categorizing Liver Finding: The Liver Imaging Reporting and Data System (LI-RADS)

9:50-10:00 Coffee Break

10:00-12:00 Oral Presentations (Chair: Dr. Yutaro Iwamoto)

10:00-10:20 Tensor Sparse Representations of Multi-Phase CT Images for Computer-Aided Diagnosis of Focal Liver Lesions

Presenter: Jian Wang (Ritsumeikan University, Japan)

Co-Authors: Xian-hua Han, Yingying Xu, Lanfen Lin, Hongjie Hu and Yen-Wei Chen

10:20-10:40 Computerized Features for LI-RADS Based Computer-Aided Diagnosis of Liver Lesions

Presenter: Mingzhong Chen (Zhejiang University, China)

Co-Authors: Lanfen Lin, Qingqing Chen, Hongjie Hu, Qiaowei Zhang, Yingying Xu and Yen-Wei Chen

10:40-11:00 Detection of Brain Lacunar Infarction Using Deep Learning

Presenter: Yusuke Yoshinobu (Ritsumeikan University, Japan)

Co-Authors: Shiino Akihiko, Yutaro Iwamoto and Yen-Wei Chen

11:00-11:20 Classification of Pulmonary Emphysema in CT Images Based on Multi-Scale Deep Convolutional Neural Networks

Presenter: Liying Peng (Zhejiang University, China)

Co-Authors: Lanfen Lin, Hongjie Hu, Huali Li, Xiaoli Ling, Dan Wang and Yen-Wei Chen

11:20-11:40 Effects of Depth Cues on the Recognition of the Spatial Position of a 3D Object in Transparent Stereoscopic Visualization

Presenter: Yurina Kitaura (Ritsumeikan University, Japan)

Co-Authors: Kyoko Hasegawa, Yuichi Sakano, Roberto Lopez-Gulliver, Liang Li, Hiroshi Ando, Satoshi Tanaka

11:40-12:00 Detection of Liver Tumor Candidates from CT Images Using Deep Convolutional Neural Networks

Presenter: Yoshihoro Todoroki (Ritsumeikan University, Japan)

Co-Authors: Yutaro Iwamoto, Lanfen Lin, Hongjie Hu and Yen-Wei Chen

12:15-13:45 Lunch Reception (in Restaurant Rupo-Rupo)