

International Workshop on Deep Learning in Bioinformatics, Biomedicine, and Healthcare Informatics (DLB2H 2017)

Workshop Chairs: Jung Hun Oh and Mingon Kang

Time	Title	Presenter/Author
9:00pm – 9:20pm	Improving the Generalization of Disease Stage Classification with Deep CNN for Glioma Histopathological Images	Asami Yonekura, Hiroharu Kawanaka, V. B. Surya Prasath, Bruce J. Aronow, and Haruhiko Takase
9:20pm – 09:40pm	Assessing impacts of data volume and data set balance in using deep learning approach to human activity recognition	Haipeng Chen, Fuhai Xiong, Dihong Wu, Lingxiang Zheng, Ao Peng, Xuemin Hong, Biyu Tang, Hai Lu, Haibin Shi, and Huiru Zheng
09:40pm – 10:00pm	Deep learning for skin lesion segmentation	Rashika Mishra and Ovidiu Daescu
10:00pm – 10:20pm	Coffee Break	
10:20pm – 10:40pm	Deep vs. Shallow Learning-based Filters of MSMS Spectra in Support of Protein Search Engines	Majdi Maabreh, Basheer Qolomany, James Springstead, Izzat Alsmadi, and Ajay Gupta
10:40pm – 11:00pm	Deep Gramulator: Improving Precision in the Classification of Personal Health-Experience Tweets with Deep Learning	Ricardo Calix, Ravish Gupta, Matrika Gupta, and Keyuan Jiang
11:00pm – 11:20pm	Dorsal Hand Vein Recognition Based On Convolutional Neural Networks	Haipeng Wan, Hong Song, Lei Chen, and Jian Yang
11:20pm – 2:00pm	Lunch	
2:00pm – 2:20pm	Mitochondria Segmentation in Electron Microscopy Volumes using Deep Convolutional Neural Network	Ismail Oztel, Gozde Yolcu, Ilker Ersoy, Tommi White, and Filiz Bunyak
2:20pm – 2:40pm	Learning Influential Genes on Cancer Gene Expression Data with Stacked Denoising Autoencoders	Vitor Teixeira, Rui Camacho, and Pedro Gabriel Ferreira
2:40pm – 3:00pm	Prediction of Enhancer RNA Activity Levels from ChIP-seq-derived Histone Modification Combinatorial Codes	Nawanol Theera-Ampornpant and Somali Chaterji
3:00pm – 3:20pm	Reconstruction of high read-depth signals from low-depth whole genome sequencing data using deep learning	Yao-zhong Zhang, Seiya Imoto, Satoru Miyano, and Rui Yamaguchi
3:20pm – 3:40pm	R-PathCluster: Identifying Cancer Subtype of Glioblastoma Multiforme Using Pathway-Based Restricted Boltzmann Machine	Tejaswini Mallavarapu, Youngsoo Kim, Jung Hun Oh, and Mingon Kang
3:40pm – 4:00pm	Coffee Break	
4:00pm – 4:20pm	Interpretable Convolutional Neural Networks for Effective Translation Initiation Site Prediction	Jasper Zuallaert, Mijung Kim, Yvan Saeys, and Wesley De Neve
4:20pm – 4:40pm	Towards Alzheimer's Disease Classification through Transfer Learning	Marcia Hon and Naimul Mefraz Khan
4:40pm – 5:00pm	Extracting Retinal Vascular Networks Using Deep Learning Architecture	Yasmin Kassim and Kannappan Palaniappan
Closing Remarks		