

1. Bioinformatics and Computational Biology of Molecular Structure, Function and Evolution

Regular Papers:

B216 "Kernel Risk Sensitive Loss-based Echo State Networks for Predicting Therapeutic Peptides with Sparse Learning"

Xiaoyi Guo, Yuqing Qian, Prayag Tiwari, Quan Zou, and Yijie Ding

B678 "schHiCSC: A Novel Single-Cell Hi-C Clustering Framework by Contact-Weight-Based Smoothing and Feature Fusion"

Xiangfei Zhou, Zhenqi Shi, Yingfu Wu, Jin Zhao, and Hao Wu

B781 "DeepFusionGO: Protein function prediction by fusing heterogeneous features through deep learning"

Zhijian Huang, Rongtao Zheng, and Lei Deng

B871 "Pretraining Transformers for TCR-pMHC Binding Prediction"

Jinsheng Shang, Qihong Jiao, Cheng Chen, Daming Zhu, and Xuefeng Cui

B933 "inACP: An integrated approach to the prediction of anticancer peptides"
Guolun Zhong and Lei Deng

B450 "ST-ChIP: Accurate prediction of spatiotemporal ChIP-seq data with recurrent neural networks"

Tong Liu and Zheng Wang

B733 "A NEW PHYLOGENY-DRIVEN RANDOM FOREST-BASED CLASSIFICATION APPROACH FOR FUNCTIONAL METAGENOMICS"

Jyotsna Talreja Wassan, Haiying Wang, and Huiru Zheng

Short Papers:

B237 "Sub-Loc:predicting protein sub-mitochondrial localization based on sequence embedding"

Xiaoting Wang, Juan Wang, Haodong Bian, and Maozu Guo

B326 "MSE-CapsPPISP: Spatial Hierarchical Protein-Protein Interaction Sites Prediction Using Squeeze-and-Excitation Capsule Networks"

Weipeng Lv, Changkun Jiang, and Jianqiang Li

B444 "An integration of deep learning with feature fusion for protein-protein interaction prediction"

Hoai-Nhan Tran, Phuc-Xuan-Quynh Nguyen, Xiaoqing Peng, and Jianxin Wang

B547 "Learning spatial structures and network correlations improves unknown protein-protein interaction prediction"

Yangyue Fang, Chaojian Zhang, Yu Fu, Tao Xue, and Jianping Huang

B632 "Adaptive Multi-view Graph Convolutional Network for Gene Ontology Annotations of Proteins"

Yingwen Zhao, Zhihao Yang, Yongkai Hong, Lei Wang, Yin Zhang, Hongfei Lin, and Jian Wang

B805 "Longest k -tuple Common Sub-Strings"

Tiantian Li, Daming Zhu, Haitao Jiang, Haodi Feng, and Xuefeng Cui

B984 "Protein Subcellular Localization Prediction by Combining ProtBert and BiGRU"

Wang zeyu, Lin Tao, and Yang Xiaoli

B730 "GCL-GO: A novel sequence-based hierarchy-aware method for protein function prediction"

Kyudam Choi, Yurim Lee, and Cheongwon Kim

B937 "Protein-Protein Interaction Network Analysis Reveals Distinct Patterns of Antibiotic Resistance Genes"

Nazifa Ahmed Mousi, Connor Brown, Peter Vikesland, Amy Pruden, and Liqing Zhang

B983 "The Combined Focal Cross Entropy and Dice Loss Function for Segmentation of Protein Secondary Structures from Cryo-EM 3D Density maps"
Yongcheng Mu, Jiangwen Sun, and Jing He

2. Computational Systems Biology

Regular Papers:

B321 "Predicting circRNA-disease associations using similarity assessing graph convolution from multi-source information networks"

Yang Li, Xue-Gang Hu, Pei-Pei Li, Lei Wang, and Zhu-Hong You

B482 "Integrating Prior Knowledge with Graph Encoder for Gene Regulatory Inference from Single-cell RNA-Seq Data"

Jiawei Li, Fan Yang, Fang Wang, Yu Rong, Peilin Zhao, Shizhan Chen, Jianhua Yao, Jijun Tang, and Fei Guo

B570 "IMRDriver: coding and non-coding cancer driver genes identification based on network propagation"

Song Wang, Xiao-Tai Huang, Kei Hang Katie Chan, and Lin Gao

B676 "Purification of tumor methylomes through residual decomposition"

Nana Wei, Yijing Zhu, Yating Nie, Shiyu Fan, Yuanchen Sun, and Xiaoqi Zheng

B719 "iCircDA-ENR: identification of circRNA-disease associations based on ensemble network representation"

Hang Wei, Xiayue Fan, and Shuai Wu

B769 "Discovering eQTL Regulatory Patterns Through eQTLMotif"

汪涛 Wang, Hui Zhao, Yifu Xiao, Hanzi Yang, Xipeng Yin, Yongtian Wang, Bing Xiao, Xuequn Shang, and Jiajie Peng

B840 "Phenotype Prediction by Heterogeneous Molecular Network Embedding"

Haojiang Tan, Jun Wang, Guoxian Yu, Wei Guo, and Maozu Guo

B878 "Multi-View Brain Network Analysis with Cross-View Missing Network Generation"

Gongxu Luo, Chenyang Li, Hejie Cui, Lichao Sun, Lifang He, and Carl Yang

Short Papers:

B314 "Network Connectivity Analysis of Coding and Noncoding RNAs in Cancer"

Bingbo Wang, Chao Han, and Xiujian Ma

B377 "SurvConvMixer: Robust and Interpretable Cancer Survival Prediction Based on ConvMixer Using Pathway-Level Gene Expression Images"

Shuo Wang, Hao Zhang, Zhen Liu, and Yuanning Liu

B495 "scSAGAN: A scRNA-seq data imputation method based on Semi-Supervised Learning and Probabilistic Latent Semantic Analysis"

Xiong Zehao, Chen Xiangtao, Luo Jiawei, Shen Cong, and Xu Zhongyuan

B642 "SCdenoise: a reference-based scRNA-seq denoising method using semi-supervised learning"

Fengqi Zhong, Yuansong Zeng, Yubao Liu, and Yuedong Yang

B645 "A Transformer-based Model for Plant miRNA-lncRNA Interaction Prediction"

Wenjian Zhou, Lu Ji, and Xiwei Tang

B663 "Inferring microbe-metabolite interactions by heterogeneous network fusion based on graph convolution network"

Pei Li, Weizhong Zhao, Xingpeng Jing, and Xianjun Shen

B689 "Prediction of virus-receptor interactions based on linear optimization and similarities via multi-view learning"

Lingzhi Zhu, Kai Zheng, Guihua Duan, and Jianxin Wang

B710 "Identifying possible lncRNA-disease associations based on deep learning and positive-unlabeled learning"

Peng Lihong, Huang Liangliang, Lu Yuankang, Liu Guangyi, Chen Min, and Han Guosheng

B776 "DLP: duplex link prediction via subspace segmentation for predicting drug-miRNA associations"

Kai Zheng, Qichang Zhao, Mengyun Yang, Xiao Liang, and Jianxin Wang

B843 "Prediction of exosomal piRNAs based on deep learning for sequence embedding with attention mechanism"

Yajun Liu, Yulian Ding, Aimin Li, Rong Fei, Xie Gao, and FangXiang Wu

B383 "MicroCellClust 2: a hybrid approach for multivariate rare cell mining in large-scale single-cell data"

Alexander Gerniers and Pierre Dupont

B877 "Computational learning of small RNA regulation in pancreatic cancer progression"

Roland Madadjim and Juan Cui

3. Next Generation Sequencing and High-throughput Methods

Regular Papers:

B242 "A parametric model for clustering single-cell mutation data"

Jiaqian Yan, Jianing Xi, and Zhenhua Yu

B329 "Genetic and phenotypic relationships between coronary atherosclerotic heart disease and electrocardiographic traits"

Xinfeng Wang, Haoyang Zhang, Xuehao Xiu, Mengling Qi, Yuedong Yang, and Huiying Zhao

B535 "A Meta-learning based Graph-Hierarchical Clustering Method for Single Cell RNA-Seq Data"

Zixiang Pan, Yuefan Lin, Haokun Zhang, Yuansong Zeng, Wei Jiang Yu, and Yuedong Yang

B561 "A single cell potency inference method based on the local cell-specific network entropy"

Ziwei Xu, Ruiqing Zheng, Yuxuan Chen, Edwin Wang, and Min Li

B690 "BayesImpute: a Bayesian imputation method for single-cell RNA-seq data"

Siqi Chen, Ruiqing Zheng, Luyi Tian, Fang-Xiang Wu, and Min Li

B729 "Comparison of the Nanopore and PacBio sequencing technologies for DNA 5-methylcytosine detection"

Yadong Liu, Zhongyu Liu, Tao Jiang, Tianyi Zang, and Yadong Wang

B731 "scIAC: clustering scATAC-seq data based on Student's t-distribution similarity imputation and denoising autoencoder"

wei lan, xun sun, qingfeng chen, jin ye, xiaoshu zhu, and yi pan

B779 "A Distributed Evolutionary Framework for Large-scale SNP-SNP Interaction Detection"

Fangting Li, Yuhai Zhao, Boxin Guan, and Yuan Li

B826 "Hexagonal Convolutional Neural Network for Spatial Transcriptomics Classification"

Jing Gao, Kai Hu, Fa Zhang, and Xuefeng Cui

B900 "ranscriptomics"

Carlos Soto, Darshan Bryner, Audrey Dalgarno, Nicola Neretti, and Anuj Srivastava

Short Papers:

B286 "A heterogeneous graph cross-omics attention model for single-cell representation learning"

Yue Liu, Shulin Wang, Xiangxiang Zeng, Junfeng Zhang, Wei Zhang, and Chee Keong Kwoh

B322 "Feature Selection for Microarray Data via Community Detection Fusing Multiple Gene Relation Networks Information"

- Shoujia Zhang, Wei Li, Weidong Xie, and Linjie Wang
 B569 "Predicting the functional effects of human non-coding variants based on stacking ensemble learning"
 Zepeng Liu, Xiao-Tai Huang, Kei Hang Katie Chan, and Lin Gao
 B648 "DLmeta: a deep learning method for metagenomic identification"
 Yu Zhang, Chenchen Li, Haodi Feng, and Daming Zhu
 B718 "MSVF: Multi-task Structure Variation Filter with Transfer Learning in High-throughput Sequencing"
 Weiming Xiang, Yingbo Cui, Yaning Yang, Ang Zhang, Boya Ji, and Shaoliang Peng
 B841 "A deep learning-based unsupervised learning method for spatial transcriptomics analysis"
 Peng Lihong, He Xianzhi, Peng Xinhui, Lu Yuankang, Li Zejun, and Chen Xing
 B986 "Identification of susceptible mutations and digenic pathogenic combinations of Retinitis Pigmentosa in Chinese families cohort"
 Ziwei Wang, Jiayu Gao, Sicheng Guo, Yuting Ma, Dongming Hang, and Jiankang Li
- B407 "SNEP-DB: An integrated database to associate genomic and pathological aspects of psychiatric disorders"
 Ohhyeon Kwon, Maree J Webster, Sanghyeon Kim, and Doheon Lee
 B721 "Analysis of correlative radiomic signatures with genetic intratumoral heterogeneity in breast cancer"
 Jiyun Hong, Ga Ram Kim, You Jin Ku, Eunwoo Choi, Young Han Lee, and Sangwoo Kim
 B931 "IDIA: An Integrative Signal Extractor for Data-Independent Acquisition Proteomics"
 Jiancheng Li, Chongle Pan, and Xuan Guo
 B945 "FineFDR: Fine-grained Taxonomy-specific False Discovery Rates Control in Metaproteomics"
 Shengze Wang, Shichao Feng, Chongle Pan, and Xuan Guo

4. Cheminformatics and pharmacogenomics

Regular Papers:

- B270 "Glycan Immunogenicity Prediction with Efficient Automatic Graph Neural Network"
 Jiamin Chen, Zhenpeng Wu, Jianliang Gao, and Xiaohua Hu
 B317 "ViTRMSE: a three-dimensional RMSE scoring method for protein-ligand docking models based on Vision Transformer"
 Linyuan Guo and Jianxin Wang
 B474 "Discriminative Graph Representation Learning with Distributed Sampling"
 Jinyong Wen and Yuhu Wang
 B560 "Predicting drug transcriptional response similarity using Signed Graph Convolutional Network"
 Chenzhi Hong, Ziyang Wang, Xuan Liu, Zhankun Xiong, Feng Liu, and Wen Zhang
 B631 "Predicting Compound-Protein Interaction by Deepening the Systemic Background via Molecular Network Feature Embedding"
 Han Wang, Hangxu Zhu, Wenhao Li, Ming Liu, Li Zhang, and Dong Xu
 B754 "Graph-based Reaction Classification by Contrasting between Precursors and Products"
 Zhengwei Wang, Yuxiao Wang, Xuan Zhang, Zhaoxu Meng, Zhenghe Yang, Wei Zhao, and Xuefeng Cui
 B767 "HS-DTI: Drug-target Interaction Prediction Based on Hierarchical Networks and Multi-order Sequence Effect"
 Xu Gong, Maotao Liu, Haichao Sun, and Qun Liu
 B770 "RecurPocket: Recurrent Lmser Network with Gating Mechanism for Protein Binding Site Detection"
 Peiyang Li, Boheng Cao, Shikui Tu, and Lei Xu

- B866 "Boosting Deep Learning-based Docking with Cross-attention and Centrality Embedding"
Jingxuan Wang, Zongzhao Qiu, Xuan Zhang, Zhenghe Yang, Wei Zhao, and Xuefeng Cui
- B888 "CoAtGIN: Marrying Convolution and Attention for Graph-based Molecule Property Prediction"
Xuan Zhang, Cheng Chen, Zhaoxu Meng, Zhenghe Yang, Haitao Jiang, and Xuefeng Cui
- B995 "HelixMO: Sample-Efficient Molecular Optimization in Scene-Sensitive Latent Space"
Zhiyuan Chen, Xiaomin Fang, Zixu Hua, Yueyang Huang, Fan Wang, and Hua Wu

Short Papers:

- B636 "HierMRL: Hierarchical Structure-Aware Molecular Representation Learning for Property Prediction"
Maotao Liu, Yifan Yang, Xu Gong, Li Liu, and Qun Liu
- B461 "Molecular Property Prediction based on Bimodal Supervised Contrastive Learning"
Yan Sun, Mohaiminul Islam, Ehsan Zahedi, M'elaine Kuenemann, Hassan Chou, and Pingzhao Hu
- B516 "PandoraRL: DQN and Graph Convolution based ligand pose learning for SARS-COV1 Mprotease"
Justin Jose, Ujjaini Alam, Divye Singh, Nidhi Jatana, and Pooja Arora
- B604 "MoleHD: Efficient Drug Discovery using Brain Inspired Hyperdimensional Computing"
Dongning Ma, Rahul Thapa, and Xun Jiao

5. Cross-Cutting Computational Methods and Bioinformatics of Disease

Regular Papers:

- B239 "Invariant Content Synergistic Learning for Domain Generalization on Medical Image Segmentation"
Yuxin Kang, Hansheng Li, Xuan Zhao, Xiaoshuang Shi, Feihong Liu, Qingguo Yan, Ying Guo, Lei Cui, Jun Feng, and Lin Yang
- B281 "Predicting of microbe-drug associations via a pre-completion-based label propagation algorithm"
Haochen Zhao, Guihua Duan, Botu Yang, Suning Li, and Jianxin Wang
- B285 "EMDS: predicting essential miRNAs based on deep learning and sequences"
Cheng Yan, Guihua Duan, and Fang-Xiang Wu
- B300 "Contrastive Meta-Learning for Drug-Target Binding Affinity Prediction"
Mei Li, Sihan Xu, Xiangrui Cai, Zhong Zhang, and Hua Ji
- B345 "RDDriver: A novel method based on multi-layer heterogeneous transcriptional regulation network for identifying pancreatic cancer biomarker"
Yuting Lu, Yan Wang, Nan Sheng, Yuan Fu, and Yuan Tian
- B370 "NeRV-3D-DC: A Nonlinear Dimensionality Reduction Visualization Method for 3D Chromosome Structure Reconstruction with High Resolution Hi-C Data"
Haiyan Gong, Yang Yi, Xiaotong Zhang, Fuqiang Ma, Minghong Li, Zhengyuan Chen, Sichen Zhang, and Yang Chen
- B382 "Analyses of cell-to-cell communication combining a heterogeneous deep ensemble framework and scoring approaches from single-cell RNA sequencing data"
Peng Lihong, Yuan Ruya, Tan Jingwei, Wang Zhao, Chen Min, and Chen Xing
- B391 "An adaptive variational model for multi-reference alignment with mixed noise"
Cuicui Zhao, Jun Liu, and xinqi gong
- B398 "Predicting miRNA-disease associations via multi-channel graph convolutional networks"

HaoRan Zheng, Qiu Xiao, and JianCheng Zhong
B431 "A Sparse Multi-task Contrastive and Discriminative Learning Method with Feature Selection for Brain Imaging Genetics"
Jin Zhang, Muheng Shang, Qiang Xie, Minjianan Zhang, Duo Xi, Lei Guo, Junwei Han, and Lei Du
B432 "Identification of personalized driver genes for individuals using graph convolution network"
Wei Peng, Piaofang Yu, Wei Dai, Xiaodong Fu, Li Liu, and Yi Pan
B439 "Location-Guided Token Pair Tagger for Joint Biomedical Entity and Relation Extraction"
Yan Zhang, Zhihao Yang, Hongfei Lin, and Jian Wang
B460 "Artificial bee colony algorithm based on self-adjusting random grouping for high-order epistasis detection"
Junliang Shang, Yijun Gu, Yan Sun, Feng Li, Jin-Xin Liu, and Boxin Guan
B466 "An Alzheimer's disease gene prediction method based on ensemble of genome-wide association study summary statistics"
Jia-Hao Song, Cui-Xiang Lin, and Hong-Dong Li
B467 "HSAELDA: Predicting lncRNA-disease associations based on heterogeneous networks and Stacked Autoencoder"
wenyu xi, JinXing Liu, and yinglian gao
B509 "BP-DDI: Drug-drug interaction prediction based on biological information and pharmacological text"
Mingliang Dou, Han Han, Genlang Chen, Fei Guo, and Jijun Tang
B514 "Intent-aware Prompt Learning for Medical Question Summarization"
Leilei Zhang and Junfei Liu
B527 "Syntactic Type-aware Graph Attention Network for Drug-drug Interactions and their Adverse Effects Extraction"
Peng Chen, Jian Wang, Hongfei Lin, Yichen Wang, Di Zhao, and Yijia Zhang
B553 "KL-RF: Predicting disease-gene associations with model fusion"
Hai Liu and Hong-Dong Li
B554 "RabbitQCPlus: More Efficient Quality Control for Sequencing Data"
Lifeng Yan, Zekun Yin, Hao Zhang, Zhan Zhao, Mingkai Wang, André Müller, Robin Kobus, Yanjie Wei, Beifang Niu, Bertil Schmidt, and Weiguo Liu
B576 "Kernel Mean Matching with Mahalanobis Distance for Causal Inference of Time-to-event Outcome"
Qin Ma, Lin Zeng, Shikui Tu, and Lei Xu
B578 "MilGNet: A Multi-instance Learning-based Heterogeneous Graph Network for Drug repositioning"
Yaowen Gu, Si Zheng, Bowen Zhang, Hongyu Kang, and Jiao Li
B589 "Prediction of miRNA and Disease Association based on Graph Convolution Network using Latent Feature Vector by Positive Samples"
Jiancheng Zhong, Jiedong Kang, Xingran Song, Qiu Xiao, and Yi Pan
B625 "MHKD-MVQA: Multimodal Hierarchical Knowledge Distillation for Medical Visual Question Answering"
Jianfeng Wang, Shuokang Huang, Huifang Du, Yu Qin, Haofeng Wang, and Wenqiang Zhang
B641 "Multi-view Unsupervised Feature Selection via Consensus Guided Low-rank Tensor Learning"
Lianzhi Wang, Cheng Liang, Wenjiao Dong, and Wenlan Chen
B650 "A multi-source fusion method to identify biomarkers for breast cancer prognosis based on dual-layer heterogeneous network"
Xingyi Li, Zhelin Zhao, Ju Xiang, Jialu Hu, and Xuequn Shang
B679 "Knowledge-Enhanced Dual Graph Neural Network for Robust Medicine Recommendation"
Xingwang Li, Yijia Zhang, Jian Wang, Mingyu Lu, and Hongfei Lin
B688 "Prediction of Drug-Drug Interactions Based on Meta-path-based Fusion Mechanism in Heterogeneous Information Networks"
Xueling Yuan, Weizhong Zhao, Xianjun Shen, Xingpeng Jiang, and Tingting He
B692 "A Novel Drug Repositioning Model Based on Heterogeneous Graph Convolutional Network via Multi-task Learning"
Shengwei Ye, Weizhong Zhao, Xianjun Shen, Xingpeng Jiang, and Tingting He
B694 "MPGNN-DSA: A Meta-path-based Graph Neural Network for Drug-Side effect Associations Prediction"

Wenjie Yao, Weizhong Zhao, Xianjun Shen, Xingpeng Jiang, and Tingting He
B720 "Embracing Uniqueness: Generating Radiology Reports via a Transformer with Graph-based Distinctive Attention"

Han Wang, Jianwei Niu, Xuefeng Liu, and Yong Wang
B758 "Single-cell TF-DNA binding prediction and analysis based on transfer learning framework"

Zixuan Wang, Yongqing Zhang, Yun Yu, Maocheng Wang, Yuhang Liu, and Quan Zou
B765 "Selecting Reliable Instances from ImageNet for Medical Image Domain Adaptation"

Ying Lv, Xiaodong Yue, Zhikang Xu, Yufei Chen, and Zihao Li
B766 "Contrastive Self-Supervised Representation Learning for Protein Complexes Identification"

Peixuan Zhou, Yijia Zhang, Fei Chen, Mingyu Lu, and Hongfei Lin
B775 "Predicting cell type-specific effects of variants on TF-DNA binding by meta-learning"

Yongqing Zhang, Yuhang Liu, Zixuan Wang, Maocheng Wang, Shuwen Xiong, and Quan Zou
B804 "ASNet: An Adversarial Sparse Network for Multi-task Biomedical Named Entity Recognition"

Junwen Duan, Huai Guo, Min Zeng, and Jianxin Wang
B820 "Accurate Multi-view Clustering by Exploiting Within-view High-order Affinities through Tensor Self-representation"

Haiyan Wang, Jiazhou Chen, Bin Zhang, and Hongmin Cai
B844 "Unified Fine-Grained Biomedical Entity Recognition as a Combination of Boundary Detection and Sequence Generation"

Xue Li, Yang Yang, Mingchen Ye, Yi Guan, Xuehui Yu, and Jingchi Jiang
B849 "MOVE: Integrating Multi-source Information for Predicting DTI via Cross-view Contrastive Learning"

Yuening Qu, Chengxin He, Zhenjiang Zhao, Jingyu Chen, and Lei Duan
B851 "Temporal Hypergraph for Personalized Clinical Pathway Recommendation"

Fanglin Zhu, Shunyu Chen, Yonghui Xu, Fuqiang Yu, and Lizhen Cui
B929 "deepDGA: Biomedical Heterogeneous Network-based Deep Learning Framework for Disease-Gene Association Predictions"

Hong Wang, Xiaoqi Wang, Wenjuan Liu, and Shaoliang Peng
B935 "Learning Time-Series Images of Niacin Skin-Flushing Test for the Diagnosis of Schizophrenia and Affective Disorder"

Yuyang Huang, Shiwen Dong, Dandan Wang, Chunling Wan, and Yang Yang
B1006 "DSHP: A Novel Sequence Based Deep Learning Prediction Model for HPV Integration Site"

Xian Tan, Yiping Sun, Yanhe Wang, Jingbo Zhang, Pingping Sun, and Zhiqiang Ma
B277 "LDAGSO: Predicting lncRNA-Disease Associations from Graph Sequences and Disease Ontology via Deep Learning techniques"

Norah Saeed Awn, Yiming Li, Baoying Zhao, Min Zeng, and Min Li
B343 "Predicting Lymph Node Metastasis and Distant Metastasis using Differential Correlations of miRNAs and Their Target RNAs in Cancer"

Seokwoo Lee, Myoungsoon Cho, Wook Lee, Byungkyu Park, and Kyungsook Han
B353 "OmiTrans: Generative Adversarial Networks Based Omics-to-omics Translation Framework"

Xiaoyu Zhang and Yike Guo
B610 "Patient Similarity Learning with Selective Forgetting"

Wei Qian, Chenxu Zhao, Huajie Shao, Minghan Chen, Fei Wang, and Mengdi Huai
B870 "Preference Matrix Guided Sparse Canonical Correlation Analysis for Genetic Study of Quantitative Traits in Alzheimer's Disease"

Jiahang Sha, Jingxuan Bao, Kefei Liu, Shu Yang, Zixuan Wen, Yuhan Cui, Junhao Wen, Christos Davatzikos, Jason Moore, Andrew Saykin, Qi Long, and Li Shen
B883 "Tensor-Based Multi-Modal Multi-Target Regression for Alzheimer's Disease Prediction"

Jun Yu, Benjamin Zalatan, Yong Chen, Li Shen, and Lifang He
B950 "Cell-type Deconvolution and Age Estimation Using DNA Methylation Reveals NK Cell Deficiency in the Hepatocellular Carcinoma Microenvironment"

Sidharth Jain, Megan Barefoot, Rency Varghese, and Habtom Resson

Short Papers:

B219 "MBH-Net: Multi-branch Hybrid Network with Auxiliary Attention Guidance for Large Vessel Occlusion Detection"

Rui Yao, Duo Tan, Ye Yang, Yongmei Li, Jiayang Liu, Jiajing Wu, Shanxiong Chen, and Jingjie Wang

B262 "A Random Feature Augmentation for Domain Generalization in Medical Image Segmentation"

Xuan Zhao, Yuxin Kang, Hansheng Li, Jiayu Luo, Lei Cui, Jun Feng, and Lin Yang

B308 "Dual-Level Mixing for Single Domain Generalization in Fundus Image Segmentation"

Xin Luo, Wei Chen, Chen Li, Bin Zhou, and Yusong Tan

B309 "A Feature Weighting Particle Swarm Optimization Method to Identify Biomarker Genes"

Xubin Wang and Weijia Jia

B344 "BioELM: Integrating Biomedical Knowledge into Language Model with Entity-Linking"

Qing Li, Guanzhong Wu, and Tao You

B355 "Identifying driver genes in cancer based on Pareto optimality consensus"

Deng Zheng, Wu Jingli, Chen Xiaorong, and Li Gaoshi

B378 "Dive into Plane: Lightweight & Modular Linear Projection Cross-dimensional Network for Retinal Vessel Segmentation in OCTA Images"

Yi Zhong, Mengqiu Xu, and Ming Wu

B412 "CTT-Net: A Multi-view Cross-token Transformer for Cataract Postoperative Visual Acuity Prediction"

Jinhong Wang, Jingwen Wang, Tingting Chen, Wenhao Zheng, Zhe Xu, Xingdi Wu, Wen Xu, Haochao Ying, Danny Chen, and Jian Wu

B417 "A Global-Local Cascade Network for Multi-bone Segmentation in Chest CT"

Yanfeng Sun, Han Kang, Huan Zhang, Yu Wang, Hong Shen, and Pengxin Yu

B446 "A dynamic multi-modal fusion network for ovarian tumor differentiation"

Yang Li, Bei Ji Zou, Jing Wu, Yulan Dai, Harrison X. Bai, and Zhicheng Jiao

B480 "Gaussian Decay Function-based Improved Moment Matching for Ocular Artifacts Removal"

Hua Jiang, Qiuxia Shi, Siying Liu, Jiuying Zhang, Qinglin Zhao, and Bin Hu

B502 "Factoring 3D Convolutions for Medical Images by Depth-wise Dependencies-induced Adaptive Attention"

Na Zeng, Jiansheng Fang, Xingyue Wang, Xiaoxi Lu, Jingqi Huang, Hanpei Miao, and Jiang Liu

B546 "A Simple Yet Effective Hand Pose Tremor Classification Algorithm To Diagnose Parkinson's Disease"

MingYa Zhang, Na Zhao, Yue Yu, YuQian Zhuang, QuanQiu Zhu, TianYuan Huang, and XianPing Tao

B562 "Faint Features Tell: Automatic Vertebrae Fracture Screening Assisted by Contrastive Learning"

Xin Wei, Huaiwei Cong, Zheng Zhang, Junran Peng, Guoping Chen, and Jinpeng Li

B585 "BioNER-CFEM: Biomedical Named Entity Recognition Based on Character Feature Enhancement with Multimodal Method"

Jinzhong Ning, Zhihao Yang, Yuanyuan Sun, Lei Wang, Yin Zhang, Hongfei Lin, and Jian Wang

B658 "Predicting human microbe-disease associations based on multi-source heterogeneous graph representation learning model"

Haodong Wang, Weizhong Zhao, Xingpeng Jiang, and Xianjun Shen

B659 "TSINet: Efficient Breast Lesion Segmentation with Three-Stream Interactive Neural Network on Magnetic Resonance Images"

Liang Sun, Yunling Zhang, Hongwei Ge, Tang Liu, Yiping Zhao, Jian Sun, Juan Tian, and Xin Qi

B685 "Prompt Enhanced Generative MRC Framework for Pancreatic Cancer NER"

ZhenDong Tan, Yan Yang, Bo Li, Beilei Wang, Gang Jin, Chengcai Chen, and Liang He

B722 "Online 3D Reconstruction of Zebrafish Behavioral Trajectories within A Holistic Perspective"
Zewei Wu, Wei Ke, Cui Wang, Wei Zhang, and Zhang Xiong

B750 "A machine learning model for disease risk prediction by integrating genetic and non-genetic factors"
Yu Xu, Chonghao Wang, Zeming Li, Yunpeng Cai, Ouzhou Young, Aiping Lyu, and Lu Zhang

B790 "Lightweight CNN based on Non-rigid SFM for 3D Reconstruction of Medical Images"
Hongyan Quan

B796 "S3AAL: Support Set Selection based on Adversarial Active Learning for Medical Few-Shot Relation Extraction"
Qingyao Li and Buzhou Tang

B959 "GMFQP: An Ontology-mediated Gut Microbiota Federated Query Platform"
Yuzhuo Dai, Shilong Zhang, Yue Tang, Wolfgang Mayer, Jixiang Li, Hongyu Li, Zhonghao Zhang, Haiqin Li, Ying Wang, Wen Zhang, Qin Jiang, Hong-Yu Zhang, Bing Li, and Zaiwen Feng

B1023 "Semantic Reasoning with NLI for Assertion Detection in Medical Text"
Zongxin Du, Xiaohong Liu, Jie Xu, Guoshun Nan, and Guangyu Wang

B1039 "Drug Repurposing Therapeutics Prediction using Hierarchical Graph Neural Network"
Xiaotian Xiong, Qianshi Yuan, Yongcheng Zhang, Fangfang Li, and Xiaomei Wei

B325 "Positive Feature Values Prioritized Hierarchical Dependency Constrained Averaged One-dependence Estimators for Gene Ontology Feature Spaces"
Cen Wan

B354 "Improving the Timeliness of Early Prediction Models for Sepsis through Utility Optimization"
Anastasios Lamproudis, Aron Henriksson, John Karlsson Valik, and Pontus Naucler

B387 "An agent-based multi-level model to study the spread of antimicrobial-resistant gonorrhoea"
Paola Stolfi, Davide Vergni, Rik Oldenkamp, Constance Schultsz, Emiliano Mancini, and Filippo Castiglione

B389 "Machine Learning Algorithms in Gene Editing"
Kalua Sanyour and Wooyoung Kim

B400 "Gene expression-based classification of benign and malignant canine mammary tumors"
In Seok Yang, Byung-Joon Seung, Yoo-Jin Ha, Jung-Hyang Sur, and Sangwoo Kim

B607 "ReactClass: Cross-Modal Supervision for Subword-Guided Reactant Entity Classification"
Xuan Wang, Vivian Hu, Minhao Jiang, Yu Zhang, Jinfeng Xiao, Danielle Loving, Heng Ji, Martin Burke, and Jiawei Han

B614 "Cost-effective Vaccine Provisioning using Coalitional Game Theory"
Satyaki Roy, Ahmad Al Musawi, and Preetam Ghosh

B853 "KANALYZER: an accurate and rapid method to identify discriminative k-mer variations in genomic sequences"
Dylan Lebatteux, Hugo Soudeyans, Isabelle Boucoiran, Soren Gantt, and Abdoulaye Baniré Diallo

B891 "Memory-Efficient FM-Index Construction for Reference Genomes"
Arghya Kusum Das, Oguzhan Kulekci, and Sharma Thankachan

B899 "Information retrieval in single cell chromatin analysis using TF-IDF transformation methods"
Mehrdad Zandigohar and Yang Dai

B946 "Robust identification of critical states and temporal tissue-specific biomarkers during disease development through ensemble learning and analysis"
Qiong Cheng

B953 "A Data-Driven Approach for the Analysis of Behavioral Disorders With a Focus on Classification and Severity Estimation"
RAMA KRISHNA THELAGATHOTI and Hesham H. ALI

B990 "OCT-guided Robotic Subretinal Needle Injections: A Deep Learning-Based Registration Approach"

Kristina Mach, Shuwen Wei, Ji Woong Kim, Alejandro Martin-Gomez, Peiyao Zhang, Jin U. Kang, Ali Nasser, Peter Gehlbach, Nassir Navab, and Iulian Iordachita
B994 "A Multi-Omics Classifier For Prediction Of Treatment Response In Prostate Cancer Patients"

Itunuoluwa Isewon, Emmanuel Alagbe, Jelili Oyelade, and Solomon Rotimi
B1049 "A continuous glucose monitoring measurements forecasting approach via sporadic blood glucose monitoring"

Yuting Xing, Hangting Ye, Xiaoyu Zhang, Wei Cao, Shun Zheng, Jiang Bian, and Yike Guo

6. Biomedical and Health Informatics

Regular Papers:

B229 "CCA4CTA: A Hybrid Attention Mechanism based Convolutional Network for Analysing Collateral Circulation via Multi-phase Cranial CTA"

Duo Tan, Jingjie Wang, Rui Yao, Jiayang Liu, Jiajing Wu, Shiyu Zhu, Ye Yang, Shanxiong Chen, and Yongmei Li

B236 "Greedy-mRMR: An emotion recognition algorithm based on EEG using greedy algorithm"

Liyang Yang, Qingyang Zhang, Si Chao, Dunhui Liu, and Xiguo Yuan

B288 "Transferable Discriminative Learning for Medical Open-Set Domain Adaptation: Application to Pneumonia Classification"

wan Su, Fan Wang, Zhongyi Han, and Yilong Yin

B299 "ICBNet: Iterative Context-Boundary Feedback Network for Polyp Segmentation"

Yefan Xiao, Zhihao Chen, Liang Wan, Lequan Yu, and Lei Zhu

B306 "Dual regularized feature extraction and adaptation for cross-subject motor imagery EEG classification"

Tian-jian Luo

B313 "Diagnosing Alzheimer's Disease with Bi-multitask Regularized Sparse Canonical Correlation Analysis and Logistic Regression"

Tianru Wu, CuiNa Jiao, Xinchun Cui, and JinXing Liu

B319 "Cross-Field Transformer for Diabetic Retinopathy Grading on Two-field Fundus Images"

Junlin Hou, Jilan Xu, Fan Xiao, Rui-Wei Zhao, Yuejie Zhang, Haidong Zou, Lina Lu, Wenwen Xue, and Rui Feng

B348 "Deep 3D Vessel Segmentation based on Cross Transformer Network"

Chengwei Pan, Baolian Qi, Gangming Zhao, Jiaheng Liu, Chaowei Fang, Dingwen Zhang, and Jinpeng Li

B350 "MALUNet: A Muti-Attention and Light-weight UNet for Skin Lesion Segmentation"

Jiacheng Ruan, Suncheng Xiang, Mingye Xie, Ting Liu, and Yuzhuo Fu

B367 "A Reliability-constrained Association Rule Mining Method for Explaining Machine Learning Predictions on Continuity of Asthma Care"

Yao Tong, Yongli Wang, Qibin Zhang, Zhenxiang Zhang, and Gang Chen

B375 "MHSnet: Multi-head and Spatial Attention Network with False-Positive Reduction for Lung Nodule Detection"

Juanyun Mai, Minghao Wang, Jiayin Zheng, Yanbo Shao, Zhaoqi Diao, Xinliang Fu, Yulong Chen, Jianyu Xiao, Jian You, Airu Yin, Yang Yang, Xiangcheng Qiu, Jinsheng Tao, Bo Wang, and Hua Ji

B385 "CM-MLP: Cascade Multi-scale MLP with Axial Context Relation Encoder for Edge Segmentation of Medical Image"

Jinkai Lv, Yuyong Hu, Quanshui Fu, Zhiwang Zhang, Yuqiang Hu, Lin Lv, Guoqing Yang, Jinpeng Li, and Yi Zhao

B392 "Optic Disc Hemorrhage Detection via A Novel Position-Guided Attention Network with Small Samples on Fundus Images"

Gang Yang, Yunfeng Du, Yajie Yang, Jianchun Zhao, Dayong Ding, Jingjing Xu, and Gangwei Cheng

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Yu Guo, Yue Chen, Yuanyan Xie, Xiaojuan Ban, and Mohammad Obaidat
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Xinyu Li, Jianhong Cheng, Hulin Kuang, Jin Liu, Chengchao Shen, Pei Yang, and Jianxin Wang
B433 "Method for Preoperative Prediction of Microvascular Invasion of Hepatocellular Carcinoma"
Chen Zhao, Tian Bai, Tongjia Chu, Feng Wei, and Fa Zhang
B434 "Multi-site MRI classification using Weighted federated learning based on Mixture of Experts domain adaptation"
Tian Bai, Yingfang Zhang, Yuzhao Wang, Yanguo Qin, and Fa Zhang
B458 "Time and Time-Frequency Features Integrated CNN Model for Heart Sound Signals Detection"
Zhimin Ren, Yuheng Qiao, Yuping Yuan, You Zhou, Yanchun Liang, and Xiaohu Shi
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Tianyu Wang, Wenming Yang, Jie Chen, Yonghong Tian, and Dong-Qing Wei
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Wanwan Huang, Han Zhang, Zeyuan Li, and Yanbin Yin
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Ying Zheng and Rui Zhang
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Peng Wang, Chuanqi Han, Fang Yu, Ye Zheng, Xi Huang, and Li Cui
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Xiongjun Zhao, Xiang Wang, Fenglei Yu, and Shaoliang Peng
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Hao Gao, Runzhi Li, Jing Wang, Siyu Yan, and Lihong Ma
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Yuqi Chen, Juan Liu, Peng Jiang, Yu Jin, and Baochuan Pang
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Liangrui Pan, Lian Wang, Mingting Liu, Zhujun Xu, Liwen Xu, and Shaoliang Peng
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Cui-Na Jiao, Chun-Hou Zheng, and Jin-Xing Liu

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Ruobing Li, Jian Wang, Hongfei Lin, Yuan Lin, Huiyi LU, and Zhihao Yang

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Guihua Tao, Haojiang Li, Dandan Lu, Ziqin Ling, Lizhi Liu, and Hongmin Cai

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Tao Li, Yu Zhou, Chenqi Shi, and Pengpeng Chen

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Rui Chen, Xiangfeng Wang, Bo Jin, Jiaqi Tu, Fengping Zhu, and Yuxin Li

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Lin Zeng, Haoran Ma, Long Xiang, Shikui Tu, Ying Wang, Liebin Zhao, and Lei Xu

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Siqi Sun, Wei Ji, Liangfeng Tang, Xiaobo Zhang, Yuejie Zhang, and Rui Feng

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Wei Li and Huihua Yang

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Qumei Cao, Daoqiang Zhang, and Xuyun Wen

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Abinitha Gourabathina, Zhiyu Wan, James Brown, Chao Yan, and Bradley Malin

Short Papers:

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Hua Chen, Juan Liu, Zikang Chai, Jing Feng, Wen Zhang, Liang Mao, and Zhijun Sun
B220 "An Attention-based AI-assisted Segmentation System for Osteosarcoma MRI Images"
Fangfang Gou and Jia Wu
B221 "CGPG-GAN: An Acne Lesion Inpainting Model for Boosting Downstream Diagnosis"
Yi Lin, Jingchi Jiang, Zhaoyang Ma, Dongxin Chen, Yi Guan, Xiguang Liu, Haiyan You, Jing Yang, and Xue Cheng
B222 "Acne Severity Grading on Face Images via Extraction and Guidance of Prior Knowledge"
Yi Lin, Jingchi Jiang, Dongxin Chen, Zhaoyang Ma, Yi Guan, Xiguang Liu, Haiyan You, Jing Yang, and Xue Cheng
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Zhiwen Xiao, Haoxi Zhang, Huagang Tong, and Xin Xu
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Yijiang Li, Wentian Cai, Ying Gao, Chengming Li, and Xiping Hu
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Sanbi Luo
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Bangze Zhang, Xiaoyan Wang, Lianggui Liu, Denghui Zhang, Xiaojie Huang, Ming Xia, Weiwei Jiang, and Xiangsheng Huang
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Shaojie Li, Yifan Zhang, and Xuan Yang

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Ruiling Yao, Lin Fan, Zhongming Wang, and Yan Li

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Zeyu Gao, Anyu Mao, Jialun Wu, Yang Li, Chunbao Wang, Caixia Ding, Tieliang Gong, and Chen Li

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Haifeng Xu, Xuemeng Li, Jianfei Pang, Mei Li, Baohua Chao, and Dongsheng Zhao

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Yicong Li, Yang Tan, Jingyun Yang, Yang Li, and Xiao-Ping Zhang
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