

## **BIBM'23 - Regular Papers**

B203 "Gene Expression Profile Prediction under Drug Action Based on Generative Adversarial Networks"

Liang Yu, Da Dong, Huan Zhu, and Lin Gao

B210 "Objects Affect Where We Look: Improving Human Attention Prediction Using Extra Data"

Shuo Zhang and Huike Guo

B213 "AVS-Net: Attention-based Variable Splitting Network for P-MRI Acceleration"

Yue Zhang, Jing Li, Zigan Wang, Jinming Duan, and Jinliang Li

B230 "Self-supervise learning for atrial fibrillation detection with CNNTransformer"

Congyu Zou, Alexander Müller, Eimo Martens, Phillip Müller, Daniel Rückert, Alexander Steger, Matthias Becker, and Utschick Wolfgang

B233 "Plug-and-Play Feature Generation for Few-Shot Medical Image Classification"

Qianyu Guo, Huifang Du, Xing Jia, Shuyong Gao, Yan Teng, Haofen Wang, and Wenqiang Zhang

B238 "Shape-aware contrastive deep supervision for esophageal tumor segmentation from CT scans"

Qiangguo Jin, Hui Cui, Changming Sun, Jiapeng Huang, Ping Xuan, Yiyue Xu, Linlin Wang, Leilei Cao, Leyi Wei, and Ran Su

B251 "Privacy-Preserving Publishing of Individual-Level Medical Data for Cloud Services"

Ho Bae, Heonseok Ha, and Siwon Kim

B257 "Selecting Heterogeneous Features Based on Unified Density-Guided Neighborhood Relation for Complex Biomedical Data Analysis"

Lang Zhao, Yiqun Zhang, Xiaopeng Luo, Yue Zhang, Yiu-ming Cheung, and Kangshun Li

B260 "Addressing Sparse Annotation: a Novel Semantic Energy Loss for Tumor Cell Detection from Histopathologic Images"

Zhengyang Xu, Xianglong Du, Yuxin Kang, Hong Lv, Ming Li, Wentao Yang, Lei Cui, Hansheng Li, Yaqiong Xing, Jun Feng, and Lin Yang

B262 "DrugProtKGE: Weakly Supervised Knowledge Graph Embedding for Highly-Effective Drug-Protein Interaction Representation"

Yan-Long Qiu, Si-Qi Wang, Xi Yang, Xin-Yuan Qiu, Cheng-Kun Wu, Ying-Bo Cui, and Can-Qun Yang

B267 "Weighted non-negative matrix factorization-based co-clustering of single-cell RNA-seq data"

Tongtong Ren and Guohua Wang

B271 "Contrastive self-supervised graph convolutional network for detecting the relationship among lncRNAs, miRNAs, and diseases"  
Nan Sheng, Lan Huang, Yan Wang, Ling Gao, Yangkun Cao, and Xuping Xie

B273 "Self-distillation Augmented Masked Autoencoders for Histopathological Image Understanding"  
Yang Luo, Zhineng Chen, Shengtian Zhou, Kai Hu, and Xieping Gao

B276 "Bridging the Gap: Cross-modal Knowledge Driven Network for Radiology Report Generation"  
Beichen Kang, Yun Xiong, Jianbo Jiao, Yao Zhang, Xing Jia, and Ji Li

B280 "MGCT: Mutual-Guided Cross-Modality Transformer for Survival Outcome Prediction using Integrative Histopathology-Genomic Features"  
Mingxin Liu, Yunzan Liu, Hui Cui, Chunquan Li, and Jiquan Ma

B288 "Coarse-to-fine Knowledge Graph Domain Adaptation based on Distantly-supervised Iterative Training"  
Wenxiong Liao, Zhengliang Liu, Yiyang Zhang, Xiaoke Huang, Fei Qi, Siqi Ding, Hui Ren, Zihao Wu, Haixing Dai, Sheng Li, Lingfei Wu, Ninghao Liu, Quanzheng Li, Tianming Liu, Xiang Li, and Hongmin Cai

B290 "Predicting miRNA-disease associations based on graph convolutional network with path learning"  
Shuang Chu, Guihua Duan, and Cheng Yan

B303 "Assessing and Enhancing Robustness of Deep Learning Models with Corruption Emulation in Digital Pathology"  
Peixiang Huang, Songtao Zhang, Yulu Gan, Rui Xu, Rongqi Zhu, Wenkang Qin, Limei Guo, Shan Jiang, and Lin Luo

B311 "TFBSnet: A deep learning-based tool for predicting transcription factor binding sites from DNA sequences"  
zhihua du, Tianyou Huang, Jianqian Li, and Vladimir N Uversky

B315 "Biomedical Named Entity Recognition Through Deep Reinforcement Learning"  
Zhehuan Zhao, Yuying Zou, Menghan Wang, Bo Xu, Zhihao Yang, and Hongfei Lin

B318 "Latent space feature representation on multiple biological network for synthetic lethality interaction prediction"  
Jinxin Li, Xinguo Lu, Kaibao Jiang, Daoxu Tang, Fengxu Sun, and Jingjing Ruan

B320 "PESI: Paratope-Epitope Set Interaction for SARS-CoV-2 Neutralization Prediction"  
Zhang Wan, Zhuoyi Lin, Shamima Rashid, Shaun Yue-Hao Ng, Rui Yin, Jayavelu Senthilnath, and Chee-Keong Kwoh

B330 "HGTDG: An Interpretable Heterogeneous Graph Transformer Framework for Cancer Driver Gene Prediction"  
Shuwen Xiong, Zixuan Wang, Yongqing Zhang, and Quan Zou

B335 "Detection of potential anxiety in social media based on multimodal fusion with deep learning methods"  
Shuzhong Lai and Zepeng Li

- B336 "Multi-omics Sampling-based Graph Transformer for Synthetic Lethality Prediction"  
Xusheng Zhao, Hao Liu, Qiong Dai, Hao Peng, Xu Bai, and Huailiang Peng
- B338 "RHViT: A Robust Hierarchical Transformer for 3D Multimodal Brain Tumor Segmentation Using Biased Masked Image Modeling Pre-training"  
Qian Zhou, Hua Zou, Fei Luo, and Yishi Qiu
- B340 "Learn, Unlearn and Relearn: An Online Learning Model for EEG Emotion Recognition"  
Gang Cao, Liying Yang, Yang Tian, and Jianing Xi
- B356 "Diffusing Coupling High-Frequency-Purifying Structure Feature Extraction for Brain Multimodal Registration"  
Fan Gao, Yuanbo He, Shuai Li, Aimin Hao, and Desen Cao
- B357 "Multi-Kernel Tensor Fusion on Grassmann Manifold for Genomic Data Clustering"  
Fei Qi, Junyu Li, Yi Liao, Wenxiong Liao, Jiazhou Chen, and Hongmin Cai
- B361 "Exploring Post-Training Quantization of Protein Language Models"  
Shuang Peng, Fei Yang, Ning Sun, Sheng Chen, Yanfeng Jiang, and Aimin Pan
- B366 "AIPPT: Predicts anti-inflammatory peptides using the most characteristic subset of bases and sequences by stacking ensemble learning strategies"  
ruiqi liu, xiuhao fu, Shankai Yan, Zilong Zhang, and Feifei Cui
- B374 "Joint Biomedical Entity and Relation Extraction with Unified Interaction Maps"  
Haixin Tan, Zhihao Yang, Zeyuan Ding, Yin Zhang, Wei Liu, Hongfei Lin, and Jian Wang
- B376 "Stress recognition based on graph structure representation of facial StO2"  
Jiaxiu Wang, Xinyu Liu, Yingjuan Jia, Tong Chen, Jingru Huang, and Zheyuan Zhang
- B377 "Integrative Drug Discovery Platform: A Modular Approach for Efficient and Automated Virtual Screening"  
Tianci Li, Lulu Xie, Zhonghai Zhang, Xu Li, Bo Duan, Gang Niu, Shiwei Sun, Fa Zhang, Runting Zhang, Guangming Tan, and Chunming Zhang
- B388 "Using Knowledge graph and Quantum Computing to Optimize the Comprehensive Mental Health Adaptive Test System"  
Xinhang Wang, Guangdi Liu, and Le Zhang
- B391 "TransCaller: An End-to-end Accelerated Transformer-based Nanopore Basecaller on GPUs"  
Di Xu, Peiheng Zhang, Yang Zhang, Shunchen Shi, and Xueqi Li
- B393 "Integrating Multi-omics Data into A Gated Graph Convolutional Networks for Identifying Cancer Driver Genes and Function Modules"  
Qianqian Peng, Zhihan He, Shichao Liu, Xinzhi Yao, and Jingbo Xia

B396 "HC-MAE: Hierarchical Cross-attention Masked Autoencoder Integrating Histopathological Images and Multi-omics for Cancer Survival Prediction"  
Suixue Wang, Xiangjun Hu, and Qingchen Zhang

B397 "FACEExplainer: Generating Model-faithful Explanations for Graph Neural Networks Guided by Spatial Information"  
Hua Yang, C.L. Philip Chen, Bianna Chen, and Tony Zhang

B404 "Metapath-aggregated multilevel graph embedding for miRNA-disease association prediction."  
Wen Cao, Yang Chen, Jian-Ye Yang, Fei-Yang Xue, Zhan-Hui Yu, Jing Feng, Ze-Jun Wu, Jing Gong, and Xiao-Hui Niu

B415 "Semantic-Similarity Collaborative Knowledge Distillation Framework for Whole Slide Image Classification"  
Zehua Ye, Yonghong He, and Tian Guan

B423 "MixUNet: Mix the 2D and 3D Models for Robust Medical Image Segmentation"  
Jiawei Li, Shizhan Chen, Jijun Tang, Shiqiang Ma, and Fei Guo

B425 "MKGSAGE: A Computational Framework via Multiple Kernel Fusion on GraphSAGE for Inferring Potential Disease-Related Microbes"  
Shuang Wang, JinXing Liu, BaoMin Liu, LingYun Dai, Feng Li, and YingLian Gao

B430 "Medical Image Segmentation Using Dual Branch Networks with Embedded Attention Mechanism"  
Shuaishuai Yang, Min Jin, Lian Wang, Changcheng Lu, Yajie Meng, Die Yan, Zhijian Huang, and Junlin Xu

B442 "START: Automatic Sleep Staging with Attention-based Cross-modal Learning Transformer"  
Jingpeng Sun, Rongxiao Wang, Gangming Zhao, Chen Chen, Yixiao Qu, Jinpeng Li, Xiyuan Hu, and Yizhou Yu

B443 "TCSloT: Text Guided 3D Context and Slope Aware Triple Network for Dental Implant Position Prediction"  
Xinquan Yang, Jinheng Xie, Xuechen Li, Xuguang Li, Linlin Shen, and Yongqiang Deng

B450 "Learning RNA sequence patterns to interpretably identify m6A modification sites"  
Guodong Li, Bowei Zhao, Xiaorui Su, Yue Yang, Pengwei Hu, and Lun Hu

B468 "Vision Transformers (ViT) Pretraining on 3D ABUS Image and Dual-CapsViT: Enhancing ViT Decoding via Dual-Channel Dynamic Routing"  
Mingwang Xu, Wei Wang, Kuanquan Wang, Suyu Dong, and Gongning Luo

B475 "A Fully Automated CT-Guided Learning for Survival Prediction of Esophageal Cancer"  
Hailin Yue, Hulin Kuang, Jin Liu, Jianhong Cheng, Junjian Li, and Jianxin Wang

B477 "Domain-specific Knowledge Guided Self-supervised Learning for Pathological Image Segmentation"

Chenhui Wang, Hulin Kuang, Jin Liu, Junjian Li, Hailin Yue, and Jianxin Wang

B483 "Improving Medical Image Denoising via a Lightweight Plug-and-play Module"

Lei Ma, Hulin Kuang, Jin Liu, Chengchao Shen, and Jianxin Wang

B484 "Location-Aware Transformer Network for Few-Shot Medical Image Segmentation"

Wendong Huang, Bin Xiao, Jinwu Hu, and Xiuli Bi

B485 "scSRL: Siamese Representation Learning-based method for analyzing single-cell RNA-seq data"

Zhaoyang Sun, Ying Liu, Pei Liu, Wanwan Shi, and Jiawei Luo

B488 "A Dual-View Fusion Network for Automatic Spinal Keypoint Detection in Biplane X-ray Images"

Dandan Zhou, Lijun Guo, Rong Zhang, Xiuchao He, Qiang Wang, and Jianhua Wang

B490 "DeepEAG: A deep learning-based hybrid framework for identifying epilepsy-associated genes using a stacking strategy"

Junfeng Xie, Dafang Zhang, and Wei Li

B491 "Fusing Local-Global Facial Features by NFFT for Automatic Depression Estimation"

Tianfei Ling, Deyuan Chen, Tingshao Zhu, and Baobin Li

B496 "GROD: Joint Inference of Gene Regulatory Networks and Data Imputation in Single-Cell RNA Sequencing with Temporal Consideration"

Jiayi Dong and Fei Wang

B498 "Exploring Brain Connectivity with Spatial-Temporal Graph Neural Networks for Improved EEG Seizure Analysis"

Junfeng Xie, Dafang Zhang, and Wei Li

B506 "LI-FPN: Depression and Anxiety Detection from Learning and Imitation"

Xingyun Li, Lin Lu, Xinyu Yi, Hao Wang, Yunshao Zheng, Yanhong Yu, and Qingxiang Wang

B510 "CAMPEOD: A Cross Attention-Based Multi-Scale Patch Embedding Organoid Detection Model"

Xun Deng, Lun Hu, Zhu-Hong You, and Peng-Wei Hu

B516 "CPAConv-POCO:a Continuous Position Adaptive Convolution based POCO for lung nodule 3D Reconstruction"

Ao Jiang and Feng Liu

B518 "DFNodule: a Novel Deformable Faster R-CNN for Lung Nodule Detection"

guowei Tao, fu Zhou, Feng Liu, and Hao Gui

B519 "Simultaneous Super-Resolution and Denoising on MRI via Conditional Stochastic Normalizing Flow"

Zhenhong Liu, Xingce Wang, Zhongke Wu, Yicheng Zhu, and Alejandro F Frangi

B521 "MLLCD: A Meta Learning-based Method for Lung Cancer Diagnosis Using Histopathology Images"  
Xiangjun Hu, Suixue Wang, Hang Li, and Qingchen Zhang

B522 "A Distribution Preserving Model for Molecular Graph Generation"  
Changsheng Ma, Qiang Yang, Shangsong Liang, and Gao Xin

B531 "Causal Attention-Based Lightweight and High Performance Cervical Cancer Cell Detection Model"  
Yuanyuan Guo, Dehua Chen, Chengzhan Bao, and Yishu Luo

B533 "KE-HMFNet: A Knowledge-Enhanced Hierarchical Molecular Representation Fusion Network for Drug Recommendation"  
Junjie Zhang, Xuan Zang, Hao Chen, and Buzhou Tang

B535 "Subtype-DCGCN: an unsupervised approach for cancer subtype diagnosis based on multi-omics data"  
Yabin Kuang and Minzhu Xie

B538 "ConvUNET: a Novel Depthwise Separable ConvNet for Lung Nodule Segmentation"  
Xinkai Tang, Feng Liu, Ruoshan Kong, Fei Luo, Wencai Huang, and Jiani Zou

B545 "MS-EDL: Reliable Glaucoma Assessment via Sufficient Epistemic Uncertainty"  
Rongchang zhao, Rui Ma, Liang Zhou, Xiaoliang Jia, and Jin Liu

B549 "A Knowledge Graph-based Clustering Approach for Drug Side Effects Prediction"  
Ying Zheng and Shibo Xu

B554 "CLPiDA: A Contrastive Learning Approach for Predicting Potential PiRNA-Disease Associations"  
Xiaowen Hu, Yuanpeng Zhang, Jiakuan Zhang, and Lei Deng

B558 "LightK-DSGCN: Depression Detection in EEGs with Lightweight Kalman Filter-aided Dual-Stream Graph Convolutional Networks"  
Yanshen Sun, Jianger Yu, and Chang-Tien Lu

B565 "Emotion and Stress Recognition Utilizing Galvanic Skin Response and Wearable Technology: A Real-time Approach for Mental Health Care"  
Elahe Hosseini, Ruijie Fang, Ruoyu Zhang, Setareh Rafatirad, and Houman Hodayoun

B569 "A smart chicken farming platform for chicken behavior identification and feed residual estimation"  
Jiezhi Yang, Chaochao Qu, Zirong Liu, Kangzhe Ma, Jun Gao, Kuo Zhao, Ning Jiang, Quan Lu, Yanyan Li, Linjing Wei, Wenjing Tao, Huiru Zheng, Antong Zhou, and Le Zhang

B577 "Improving VTE Identification through Adaptive NLP Model Selection and Clinical Expert Rule-based Classifier from Radiology Reports"  
Jamie Deng, Yusen Wu, Hilary Hayssen, Brain Englum, Aman Kankaria, Minerva Mayorga-Carlin, Shalini Sahoo, John Sorkin, Brajesh Lal, Yelena Yesha, and Phuong Nguyen

B582 "TransVCOX: Bridging Transformer Encoder and Pre-trained VAE for Robust Multi-Omics Cancer Survival Analysis"  
Xiaoyu Li, Wenwen Min, Jinyu Chen, Jiaxin Wu, and Shunfang Wang

B583 "Multimodal-AIR-BERT: A Multimodal Pre-trained Model for Antigen Specificity Prediction in Adaptive Immune Receptors"  
Yang Xiao, Yueshan Huang, Yu Zhao, Fan Xu, Qin Ren, Bing He, Jianhua Yao, and Xiao Liu

B586 "HSELD: Heterogeneous Sub-Graph Learning for lncRNA-Disease Associations Prediction"  
Tiancheng Zhou, Zachary Glanz, Mei Liu, Jiang Bian, Rui Yin, and Hongyang Gao

B588 "Spinal Lesions Classification and Localization with ACAT-Net from X-ray Images"  
Hongzhi Liu, Xiaoli Mai, Junyang Han, Shiyu Zhu, Jiacheng Nie, Weixuan Wan, Chunfeng Yang, Shijie Wang, Wenxue Yu, Xiaoying Tang, Cheng Xue, Pinzheng Zhang, Qianjin Feng, and Yang Chen

B597 "Hierarchical Semantic Augmentation Graph Neural Network for Drug-Disease Association Prediction"  
Mingjing Han, Han Zhang, Huan Wang, and Yanbin Yin

B608 "PMMVar: Leveraging Multi-level Protein Structures for Enhanced Coding Variant Pathogenicity Prediction"  
Yijia Chen, Yiwen Chen, Shanling Nie, and Hai Yang

B614 "A Multi-View Learning-Based Bayesian Ruleset Extraction Algorithm For Accurate Hepatotoxicity Prediction"  
Siyang Chen, Lianlian Wu, Yong Xu, Kunhong Liu, Song He, and Xiaochen Bo

B616 "Effective Data Preprocessing Techniques for CNN-based Selective Sweep Detection"  
Hanqing Zhao and Nikolaos Alachiotis

B620 "SRPA: ScribbleMatch and Reliable-Guided Pixel Alignment for Scribble-Supervised Medical Image Segmentation"  
Tingjie Liu, Lihong Qiao, Yucheng Shu, Weisheng Li, and Xinbo Gao

B635 "Multimodal attention-based variational autoencoder for clinical risk prediction"  
Xiaoyu Li, Taosheng Xu, Jinyu Chen, Jun Wan, and Wenwen Min

B636 "Identifying Main and Epistasis Effects of Genetic Variations on Neuroimaging Phenotypes Using Effective Feature Interaction Learning"  
Jin Zhang, Qiang Xie, Muheng Shang, Duo Xi, Minjianan Zhang, Lei Guo, and Lei Du

B646 "Adaptive particle swarm architecture search based on multi-level convolutions for functional brain network classification"  
Xingyu Wang and Junzhong Ji

B648 "A personalized pathway activation inference method based on pathway structure for classification of inflammatory bowel disease"  
Xingyi Li, Zhelin Zhao, Chenzhuo Yan, and Xuequn Shang

B649 "UMINT-FS: UMINT-guided Feature Selection for multi-omics datasets"  
Chayan Maitra, Dibyendu B. Seal, Vivek Das, Yevgeniy Vorobeychik, and Rajat K. De

B650 "Data-driven trait heritability-based extraction of human facial phenotypes"  
Meng Yuan, Seppe Goovaerts, Hanne Hoskens, Stephen Richmond, Susan Walsh, Mark D. Shriver, John R. Shaffer, Mary L. Marazita, Seth M. Weinberg, Hilde Peeters, and Peter Claes

B662 "A Structure-Affinity Dual Attention-based Network to Segment Spine for Scoliosis Assessment"  
Hao Xie, Zixun Huang, Frank H. F. Leung, Yakun Ju, Yong-Ping Zheng, and Sai Ho Ling

B664 "A Tongue Feature Extraction Method Based on a Sublingual Vein Segmentation"  
Yulong Hu, Dehui Qiu, Xiaohua Wan, Juan Zhang, Xiaotong Wang, Fa Zhang, and Bin Hu

B668 "Biomedical Causal Relation Extraction via Data Augmentation and Multi-source Knowledge Fusion"  
Jing Hao, Lishuang Li, and Xueyang Qin

B673 "Semi-MedSeq: Semi-supervised Semantic Segmentation for Medical Image Sequences"  
Runtian Yuan, Jilan Xu, Qingqiu Li, Yuejie Zhang, Rui Feng, Xiaobo Zhang, Tao Zhang, and Shang Gao

B676 "Enhancing Protein Solubility Prediction through Pre-trained Language Models and Graph Convolutional Neural Networks"  
jie chen, Yurong Qian, Zhijian Huang, and Lei Deng

B684 "Predicting Associations between circRNAs and Drug Sensitivity using Heterogeneous Graphs and Graph Attention Networks"  
Xiaojun Xiao, Yurong Qian, Zhijian Huang, Rongtao Zheng, and Lei Deng

B685 "LDCSF: Local depth convolution-based Swim framework for classifying multi-label histopathology images"  
Liangrui Pan, Yutao Dou, Zhichao Feng, Liwen Xu, and Shaoliang Peng

B687 "CVFC: Attention-Based Cross-View Feature Consistency for Weakly Supervised Semantic Segmentation of Pathology Images"  
Liangrui Pan, Lian Wang, Zhichao Feng, Liwen Xu, and Shaoliang Peng

B693 "SCTransNet: 3D Medical Image Segmentation Model Based on the Fusion of CNN and Transformer"  
Yongchang Jia, Guihua Duan, and Yu Sheng

B694 "DyNRW: Time-Series Dynamical Networks for Identifying HCC-Related Genes"  
Jin A, Ju Xiang, and Min Li

B698 "TGC-ARG: Predicting Antibiotic Resistance through Transformer-based Modeling and Contrastive Learning"  
Yihan Dong, Xiaowen Hu, Zhijian Huang, and Lei Deng



- B700 "Histopathological Cancer Detection with Topological Signatures"  
Ankur Yadav, Faisal Ahmed, Ovidiu Daescu, Reyhan Gedik, and Baris Coskunuzer
- B708 "SPHASE: Multi-Modal and Multi-Branch Surgical Phase Segmentation Framework based on Temporal Convolutional Network"  
Jun Long, Junkun Hong, Zidong Wang, Tingxuan Chen, Yunfei Chen, and Liu Yang
- B717 "Semi-supervised Medical Image Segmentation via Feature-perturbed Consistency"  
Yang Yang, Ruixuan Wang, Tong Zhang, and Jingyong Su
- B722 "DILM-ICD: A Deep Iterative Learning Model for Automatic ICD Coding"  
Weiyan Qiu, Yifan Wu, Yiming Li, Kunying Niu, Min Zeng, and Min Li
- B738 "Leveraging Frequency Domain Learning in 3D Coronary Segmentation"  
Xinyuan Wang, Chengwei Pan, Hongming Dai, Gangming Zhao, Jinpeng Li, Xiao Zhang, and Yizhou Yu
- B744 "MLGL: Model-free Lesion Generation and Learning for Diabetic Retinopathy Diagnosis"  
Jiajia Li, Chenhao Lin, Zikai Wang, Haitao Song, Feng Tan, Lun Hu, and Pengwei Hu
- B747 "Prior Information Guided Coarse-to-fine Dual-branch Encoding Network for Fovea Localization and Optic Disc/Cup Segmentation"  
Haijun Lei, Jia Zhao, Limin Huang, Hai Xie, Danrui Zhao, and Baiying Lei
- B751 "Human-Spa: An Online Platform Based on Spatial Transcriptome Data for Diseases of Human Systems"  
Yunyun Su, Shiyu Yan, Chen Cao, Feifei Cui, Quan Zou, and Zilong Zhang
- B757 "Auto-Augmentation Contrastive Learning for Wearable-based Human Activity Recognition"  
Qingyu Wu, Jianfei Shen, Feiyi Fan, Yang Gu, Chenyang Xu, and Yiqiang Chen
- B760 "Knowledge-Enhanced Difference-Aware Clinical Time Series Representation Learning for Diagnosis Prediction"  
Ying An, Yinghong Shi, Lin Guo, Yu Sheng, and Xianlai Chen
- B764 "Automatic Detection of Sleep Spindles and its Application in Patients with Acute Disorders of Consciousness"  
Zhenglang Yang and Jiahui Pan
- B769 "HyperScore: A unified measure to model hypertension progression using multi-modality measurements and semi-supervised learning"  
Mohanad Alkhodari, Winok Lapidaire, Zhaohan Xiong, Turkey Kart, Yasser Iturria-Medina, Leontios Hadjileontiadis, Ahsan Khandoker, Adam Lewandowski, Abhirup Banerjee, and Paul Leeson
- B774 "Accurate Detection of MicroRNAs from NanoString nCounter with a Latent Mixture Model"  
Chang Yu and Zhijin Wu
- B783 "Deep Learning boosted amyloidosis diagnosis"

Shaokai Wang and Bin Ma

B786 "Identification of ASD via Graph Convolutional Network with Visual Semantic Encoding of Saccade"

Chen Xia, Hexu Chen, Xinran Guo, Kuan Li, and Shuai Ren

B796 "AMTL-RFC:A multi-task learning based method for evaluating the feasibility of enzymatic reactions"

Jianghang Liu, Juan Liu, Zhihui Yang, Feng Yang, and Qiang Zhang

B804 "M2-DIA: Enhancing Diagnostic Capabilities in Imbalanced Disease Data using Multimodal Diagnostic Ensemble Framework"

Chan-Yang Ju, Ji-Sung Park, and Dong-Ho Lee

B811 "R2L-Net: Rapid Medical Image Segmentation Network Regularized by Self-Supervised Relative Localization Task"

Yixin Wang, Wenxin Yu, Zhiqiang Zhang, Jun Gong, Peng Chen, and Chang Liu

B814 "RobustHealthFL: Robust Strategy Against Malicious Clients in Non-iid Healthcare Federated Learning"

peng xi, wenjuan tang, and Shaoliang Peng

B818 "Accurately Identifying Muscle-Invasive Bladder Cancer from MRI via Weakly Supervised Learning"

Fudan Zheng, Shaoxu Wu, Ying Song, Yuedong Yang, Yong Li, Zhiguang Chen, Tianxin Lin, Yutong Lu, and Huiying Zhao

B820 "Calibrated Uncertainty-Guided Multi-task Framework for Medical Image Segmentation"

Yu Chen, Chunwei Wu, Shasha Liu, and Guitao Cao

B831 "Data-consistent Unsupervised Diffusion Model for Metal Artifact Reduction"

Zhan Tong, Yang Yang, Weilong Mao, Shijie Wang, Zhan Wu, Yinsheng Li, and Yang Chen

B833 "TS-DDD: A Two-Stage Training Strategy for Dialogue-based Disease Diagnosis"

Tianbao Zhang, Huiying Cao, Shi Feng, Yuan Cui, and Daling Wang

B834 "Protein function prediction using graph neural network with multi-type prior biological knowledge"

Yunyan Shuai, Wenkang Wang, Yiming Li, Min Zeng, and Min Li

B843 "ParaMET: A Parallel Framework for Efficient Medical Data Extraction on Tianhe-NG Supercomputer"

Yutao Dou, Yangtao Zheng, Dazheng Liu, Sheng Xiao, and Shaoliang Peng

B858 "A novel few-shot learning approach for the classification of histological images of neuroblastoma"

Bo Xu, Qirui Wang, Longjiao Li, Ruiyuan Wang, and Hongfei Lin

B865 "Box2Pseudo: A Semi-Supervised Learning Framework for Pulmonary Nodule Segmentation with Box-Prompt Pseudo Supervision"

Siqi Zhang, Jingkun Yue, Chengdi Wang, Xiaohong Liu, and Guangyu Wang

B877 "CCAC: Contrastive Learning with Channel Attention and Contour Loss for Brain Image Registration"  
Ying Zhang, Dantong Shi, Jiaqi Wang, Jinhai Xiang, and Wen Zhang

B883 "BFP-Net: Boundary Feature Pyramid for Medical Image Segmentation"  
min shiquan, zhang xiang, and Shunfang Wang

B885 "STLDA: A Spatiotemporal Linear Discriminant Analysis for Single-trial ERP-based Depression Recognition"  
Yuhan Shi, Nan Zhao, Wenjie Yuan, Qiqi Zhao, XiaoWei Zhang, and Bin Hu

B886 "DUALWISE-MAR: Dual-domain Multi-view Weakly supervised Segmentation Network for CBCT Metal Artifact Reduction"  
Xinyun Zhong, Zhan Wu, Yang Yang, Tianling Lyu, Wenxue Yu, Yan Xi, and Yang Chen

B889 "Entity Relation Aware Graph Neural Ranking for Biomedical Information Retrieval"  
Yichen He, Xiaofeng Liu, Jinlong Hu, and Shoubin Dong

B901 "Morphological Guided Causal Constrain Network for Medical Image Multi-Object Segmentation"  
Yifan Gao, Jun Li, Xinyue Chang, Yulong Zhang, Riqing Chen, Changcai Yang, Yi Wei, Heng Dong, and Lifang Wei

B902 "Predicting Microbe-Metabolite Interactions by Integrating Non-negative Matrix Factorization and Generative Network"  
Yi Jia, Shanshan Zheng, Tingting He, and Xingpeng Jiang

B905 "Enhancing Longitudinal Medical Image Segmentation through Spatial-temporal Fusion"  
Liang Zhao, Chaoran Jia, Yu Shao, Zhanxin Gang, Rui Lin, and Ruixin Ma

B911 "ESM-NBR: fast and accurate nucleic acid-binding residue prediction via protein language model feature representation and multi-task learning"  
Wenwu Zeng, Dafeng Lv, Wenjuan Liu, and Shaoliang Peng

B912 "Enhancing Clinical Outcome Predictions through Auxiliary Loss and Sentence-Level Self-Attention"  
Sanghoon Lee, Gwanghoon Jang, Chanhwi Kim, Sejeong Park, Kiwoong Yoo, Jihye Kim, Sunkyu Kim, and Jaewoo Kang

B913 "Deep Residual Fourier and Self-Attention for Arbitrary Scale MRI Super-Resolution"  
Xiaojie Wang, Jing Xia, Shanshan Gao, Xingwei Hao, and Yuanfeng Zhou

B914 "Integrating Automated Knowledge Extraction with Large Language Models for Explainable Medical Decision-Making"  
Haodi Zhang, Jiahong Li, Yichi Wang, and Yuanfeng Song

B917 "SLPFA: Protein Structure-Label Embedding Attention Network for Protein Function Annotation"  
Qiang Zhang, Juan Liu, Feng Yang, Zhihui Yang, and Jing Feng

B924 "An Effective Model for Drug-Drug Interactions Prediction in Cold-start Scenario via Counterfactual Data Augmentation"

Xueling Yuan, Weizhong Zhao, Xiaowei Xu, Xinhui Tu, Xingpeng Jiang, and Tingting He

B930 "Effective Drug Repositioning with a Novel Negative Sample Selection Algorithm"

Shengwei Ye, Weizhong Zhao, Xiaowei Xu, Xianjun Shen, Xingpeng Jiang, and Tingting He

B933 "Counterfactual Inference-based Data Augmentation for Drug-side effect Associations Prediction"

Wenjie Yao, Weizhong Zhao, Xiaowei Xu, Xingpeng Jiang, Xianjun Shen, and Tingting He

B947 "ImmRegInformer: an interpretable Transformer-based method for prioritizing immune-regulatory cancer drivers"

Liwen Xu, Boya Ji, Yijun Peng, Wending Pi, and Shaoliang Peng

B949 "CARE-30: A Causally Driven Multi-Modal Model for Enhanced 30-Day ICU Readmission Predictions"

Linna Wang, Leyi Zhao, Zhanpeng Luo, Xuan Wang, Ziliang Feng, and Li Lu

B951 "Isoform Function Prediction Based on Heterogeneous Graph Attention Networks"

Kuo Guo, Yifan Li, Hao Chen, Hong-Bin Shen, and Yang Yang

B953 "Diff-SFCT: A Diffusion Model with Spatial-Frequency Cross Transformer for Medical Image Segmentation"

Yuxuan Jiang, Yi Ding, Guobin Zhu, Zhen Qin, Minghui Pang, and Mingsheng Cao

B958 "An Attention-based Label Mapping and Multi-factor Domain Adaptation Approach for ACS Prediction"

Yutao Dou, Zhengyu Liu, Xiongjun Zhao, Liangrui Pan, and Shaoliang Peng

B965 "Causal Intervention for Measuring Confidence in Drug-Target Interaction Prediction"

Wenting Ye, Chen Li, Yang Xie, Wen Zhang, Hongyu Zhang, Bowen Wang, Debo Cheng, and Zaiwen Feng

B966 "KDProg: A Knowledge distillation graph neural network for cancer prognosis prediction and analysis"

Shuwen Xiong, Yuhang Liu, Junming Zhang, Hong Luo, Yongqing Zhang, and Quan Zou

B969 "Soft Tissue Sarcoma Segmentation Network Based on Self-supervised Learning"

Liang Zhao, Yu Shao, Zhanxin Gang, Chaoran Jia, Yihan Chen, and Zhikui Chen

B971 "Exploring Parameter-Efficient Fine-Tuning of a Large-Scale Pre-Trained Model for scRNA-seq Cell Type Annotation"

Yuhang Liu, Shuwen Xiong, Tianhao Li, Zixuan Wang, Yongqing Zhang, and Quan Zou

B975 "Rethinking Low-Dose CT Synthesis: Degrading Normal-Dose CT from Origin for Pairwise Training of CT Denoiser"

lianying chao, Taotao Zhang, Yanli Wang, wenqi shan, qiang li, and zhiwei wang

B985 "Identifying Disease-related brain Imaging Quantitative Traits and Related Genetic Variations via A Bidirectional Association Learning Method"

Muheng Shang, Yan Yang, Minjianan Zhang, Jin Zhang, Duo Xi, Lei Guo, and Lei Du

B988 "Enhancing Cancer Gene Prediction through Aligned Fusion of Multiple PPI Networks Using Graph Transformer Models"

Zebei Han and Yang Yang

B989 "BACON: Boundary-guided Polypharmacy Side Effect Prediction via Integrating Molecular Structures and Biochemical Information"

Yike Wang, Huifang Ma, Zihao Gao, Zhixin Li, and Liang Chang

B992 "Adversarial Multi-Sample Interpolation for Medical Image Segmentation"

Yinbin Lu and Hongyan Quan

B995 "PTDA-SWGCL: Predicting tRNA-Disease Associations using Supplementarily Weighted Graph Contrastive Learning"

Yuanpeng Zhang, Yurong Qian, Xiaowen Hu, Xiaojun Xiao, Zhijian Huang, and Lei Deng

B996 "Chat2Brain: A Method for Mapping Open-Ended Semantic Queries to Brain Activation Maps"

Yaonai Wei, Tuo Zhang, Han Zhang, Tianyang Zhong, Lin Zhao, Zhengliang Liu, Chong Ma, Songyao Zhang, Muheng Shang, Lei Du, Xiao Li, Tianming Liu, and Junwei Han

B1007 "Weakly Supervised Myeloma Cells Segmentation based on Point Annotation"

Haijun Lei, Guanjie Tong, Huaqiang Su, Jia Zhao, Xinyun Qiu, and Baiying Lei

B1011 "Detect the Unseen: An Expandable Detection Model for Stem Cell Images"

Hao Li, Yating Lin, Ying Chen, Sijie Lin, Zhibin Huang, Wenxian Yang, Wei Li, and Rongshan Yu

B1014 "Dual-branch Feature Interaction Network with Structure Information Learning for Retinopathy of Prematurity Classification"

Jia Zhao, Haijun Lei, Hai Xie, Yaling Liu, Guoming Zhang, and Baiying Lei

B1015 "Mining disease-associated genes based on heterogeneous graph transformer"

Xingli Guo, Yao Yun, Liang Lu, and Lin Gao

B1021 "Enhancing Precision and Interpretability of CT Image Reconstruction via Self-supervised Adaptive Domain Transformation"

Baiyin Huang, Guoqiang Xiao, and Xiaoqin Tang

B1024 "A Transformer-based Patient Clustering Method in Continuing Care Retirement Communities"

Zhenggui Xiang

B1026 "MVP: Optimizing Multi-view Prompts for Medical Dialogue Summarization"

Jiaxin Duan, Fengyu lu, and Junfei Liu

B1033 "A Novel Deep Learning Approach Featuring Graph-Based Algorithm for Simultaneous Cell Segmentation and Tracking"

Keliang Zhao, Jovial Niyogisubizo, Linxia Xiao, Yi Pan, and Yanjie Wei

B1038 "Deep k-Space Partition-Based Pyramid Networks for Fast Multimodal MRI Reconstruction Guided by Multiscale Reference Modality"

Xiao-Xin Li, Wen-Hao Zheng, Qianwei Zhou, and Lei Chen

B1042 "A multi-view comparative learning method for spatial transcriptomics data clustering"

Wei Peng, Zhihao Zhang, Wei Dai, Xiaodong Fu, Li Liu, Lijun Liu, and Ning Yu

B1047 "Orbital Lymphoproliferative Disorder Diagnosis with Incomplete Multimodal Images based on Self-/Cross-Representation and Hypergraph Ensemble"

Xiaoyang Xie, Huachen Zhang, Lijuan Yang, Yuqing Hou, Xiaowei He, and Fengjun Zhao

B1050 "A Deep Learning Method with Multi-view Attention and Multi-branch GCN for BECT Diagnosis"

Lin Zhang, Yun Ren, Fang Yuan, Yangxin Zhu, Shikui Tu, Yucai Chen, and Lei Xu

B1057 "Explainable Depression Recognition from EEG Signals via Graph Convolutional Network"

Jian Shen, Jiaying Chen, Yu Ma, Zheyu Cao, Yanan Zhang, and Bin Hu

B1060 "Improving efficiency in rationale discovery for Out-of-Distribution molecular representations"

Jiahui Zhang, Wenjie Du, Di Wu, Jiahe Li, Shuai Zhang, and Yang Wang

B1061 "Unsupervised Feature Selection by Fusing Spectral Clustering and Locality Preserving Projection"

Xiongwen Quan, Xia Guo, Han Zhang, Mingjing Han, Zeyuan Li, and Yanbin Yin

B1072 "FedGST: Federated Graph Spatio-Temporal Framework for Brain Functional Disease Prediction"

Junbin Mao, Jin Liu, Yi Pan, Hanhe Lin, and Xu Tian

B1073 "Diffusion-Enhanced Graph Attention Network for Cancer Type Classification"

Xiaofeng Wang, Jiahao Zhang, and Jianyu Zhou

B1077 "Group Attention-based Multi-wave Graph Learning for Dementia Diagnosis"

Jiaxin Wei, Bin Jiao, Xu Tian, Lu Shen, and Jin Liu

B1081 "TSM: Three-Stream Mix For Unsupervised Medical Image Registration"

Zhen Gu, Daoqiang Zhang, Fang Chen, Peng Wan, and Lingyu Chen

B1088 "Soft Tissue Sarcoma Segmentation Network Based on Ensemble Learning"

Liang Zhao, Yu Shao, Chaoran Jia, Jing Gao, Yihan Chen, and Zhanxin Gang

B1097 "M<sup>3</sup>CI-Net: Multi-Modal MRI-Based Characteristics Inspired Network for IDH Genotyping"  
Jingxiao Yao, Jianhong Cheng, Hulin Kuang, Jin Liu, and Jianxin Wang

B1099 "Noninvasive diagnosis of hepatocellular carcinoma by integrating the genetic, epigenetic and fragmentation features of cell-free DNAs"  
Xiaoqing Peng, Junjie You, Wanxin Cui, and Mengxi Zou

B1100 "EdtClust: A fast homologous protein sequences clustering method based on edit distance"  
Yixin Xiang, Jiachang Gu, and Jianyu Zhou

B1112 "A Privacy Preserving Computer-aided Medical Diagnosis Framework with Outsourced Model"  
Xinyu Feng, Qingni Shen, Cong Li, Xuewei Wang, Niantao Xie, Yuejian Fang, and Zhonghai Wu

B1114 "MouseScholar: Evaluating an Image+Text Search System for Biocuration"  
Juan Trelles Trabucco, Carla Floricel, Cecilia Arighi, Hagit Shatkay, Daniela Raciti, Martin Ringwald, and G. Elisabeta Marai

B2002 "MFHCC: Multi-View Feature Hierarchical Contrastive Clustering Model for Multi-Omics Data"  
Zongli Jiang, Hongwei Ren, Ziwei Yang, Jinli Zhang, and Zheng Chen

B2007 "Multi-Modal Deep Feature Integration for Alzheimer's Disease Staging"  
Amritpal Singh, Wenqi Shi, and May Wang

B2014 "Learned Fingerprint Embedding for Large-scale Peptide Mass Spectra Retrieval"  
Yongshuai Wang, Defeng Li, Cheng Chen, Xiaojun Cai, Shiwei Sun, and Xuefeng Cui

B2017 "A Hybrid Outbreak Detection Using Ontology-based Data Collection from Social Media"  
Ghazaleh Babanejaddehaki, Aijun An, and Heidar Davoudi

B2019 "Ulcerative Colitis Mayo Endoscopic Scoring Classification with Active Learning and Generative Data Augmentation"  
Ümit Mert Çağlar, Alperen İnci, Oğuz Hanoğlu, Görkem Polat, and Alptekin Temizel

B2023 "Integrating Heterogeneous Biological Networks and Ontologies for Improved Protein Function Prediction with Graph Neural Networks"  
Nhat Tran and Jean Gao

B2046 "Probing Transmembrane Proteins Binding Domain via Multi-level Molecule Learning"  
Yihang Bao, Wenjie Li, Zehua Sun, Yuanzhao Guo, Guan Ning Lin, and Han Wang

B2047 "Integrating Multimodal Contrastive Learning and Cross-Modal Attention for Alzheimer's Disease Prediction in Brain Imaging Genetics"  
Rong Zhou, Houliang Zhou, Li Shen, Brian Y. Chen, Yu Zhang, and Lifang He

B2048 "A Morphology Focused Cell Detection Model for Histopathology Images"

Zhe Wang, Fangyue Wei, Shuyu Guo, Xiaoting Che, and Tian Bai

B2054 "De Novo Molecular Structure Generation from Mass Spectra"

Yanmin Liu, Xuan Zhang, Wei Zhao, Daming Zhu, and Xuefeng Cui

B2055 "Synthesize More Diverse and Realistic Nanoparticle Image-mask Pairs on Limited Data"

Wenlong Li, Chaohui Liu, Jingchuan Fan, Guoqiang Xiao, and Xiaoqin Tang

B2067 "Multi-omics clustering based on interpretable and discriminative features for cancer subtyping"

Tianyi Shi, Xiucui Ye, and Tetsuya Sakurai

B2069 "Predicting Protein-Ligand Binding Affinity with Multi-Scale Structural Features"

Han Wang, Shengkun Wang, Xike Ouyang, Jingtong Zhao, Zhiquan He, and Ting Gao

B2070 "A Novel Drug-Drug Interaction Prediction Model Based on Line Subgraph Generation Strategy"

Tian Bai, Chu Li, Xinyue Peng, Haotian Guan, Zhefan Zhang, and Guishen Wang

B2073 "Personalized federated adaptive regularization for heterogeneous medical image classification: COVID-19 CT results"

Yuan Liu, Zhe Qu, Shu Wang, Tao Sheng, Xiaoqing Yu, and Jianxin Wang

B2082 "Improved Approximation Algorithms for Sorting Unsigned Genomes by Reversals"

Chengcheng Sun and Haitao Jiang

B2087 "Pretrain Once and Finetune Many Times: How Pretraining Benefits Brain MRI Segmentation"

Hao Zhang, Sheng Xu, Wei Ren, HuPing Ye, and Yi Hong

B2090 "Synthetic Monocular Depth Estimation Dataset for Cataract Surgery Assistance"

Yingquan Zhou, Zhongxi Qiu, Mingming Yang, Yan Hu, and Jiang Liu

B2099 "A flexible gene regulatory network reconstruction method based on autoencoder and graph attention network"

Ruiqing Zheng, Yanping Zeng, Weixing Zeng, and Min Li

B2100 "SIDE: Sequence-Interaction-Aware Dual Encoder for Predicting circRNA Back-Splicing Events"

Chengxin He, Lei Duan, Huiru Zheng, Yuening Qu, and Zhenyang Yu

B2101 "MGDTI: Meta-Learning Based Graph Transformer for Drug-Target Interaction Prediction"

Zhenjiang Zhao, Chengxin He, Yuening Qu, Huiru Zheng, Lei Duan, and Jie Zuo

B2107 "VirusBERTHP: Improved Virus Host Prediction Via Attention-based Pre-trained Model Using Viral Genomic Sequences"

Yunzhan Wang, Jin Yang, and Yunpeng Cai

B2117 "Enhancing Medical Report Generation in Multi-Slice Fusion Scenarios"



Shenshen Bu, Taiji Li, and Zhiming Dai

B2121 "ADMEOOD: Out-of-Distribution Benchmark for Drug Property Prediction"  
Shuoying Wei, Xinlong Wen, Songquan Li, Lida Zhu, and Rongbo Zhu

B2129 "Variational Clustering and Denoising of Spatial Transcriptomics"  
Cuiyuan Li, Kai Hu, Fa Zhang, and Xuefeng Cui

## **BIBM'23 - Short Papers**

B205 "How GNNs Facilitate CNNs in Mining Geometric Information from Large-Scale Medical Images"  
Yiqing Shen, Bingxin Zhou, Xinye Xiong, Ruitian Gao, and Yu Guang Wang

B211 "Predicting the effect of genes on longevity with novel hierarchical dependency-constrained tree augmented naive Bayes classifiers"  
Cen Wan

B222 "Surgical Temporal Action-aware Network with Sequence Regularization for Phase Recognition"  
Zhen Chen, Yuhao Zhai, Jun Zhang, and Jinqiao Wang

B231 "Knowledge-guided network pruning for eeg-based emotion recognition"  
Wenjie Rao and Shenghua Zhong

B232 "CSNet: Colonic Polyp Segmentation for Assisted Diagnosis in Colonoscopy"  
Jianbo Zhu, Zhaoxu Han, Zhimin Chang, Mingfeng Ge, Ruoqian Gao, and Wenfei Dong

B234 "Adversarial Training with Comprehensive Objective for Medical Image Report Generation"  
Xuemiao Zhang and Junfei Liu

B235 "Adaptively Multi-Objective Adversarial Training for Medical Image Report Generation"  
Xuemiao Zhang and Junfei Liu

B240 "Selection of Cancer Biomarkers from Microarray Gene Expression Data Utilizing the Bi-Objective Optimization Method"  
Hanjing Jiang, Jianqing Lin, Huachao Zhu, and Yabing Huang

B249 "Adaptive Semi-Supervised Learning from Stronger Augmented Transformations of Medical Texts"  
Xuemiao Zhang and Junfei Liu

B255 "Deep Adversarial Network Based Stain Unmixing for Brightfield Multiplex Immunohistochemistry Images"  
Siyuan Xu, Guannan Li, Mingxue Gu, and Qingli Li

B264 "A multi-granularity information-enhanced pre-training method for predicting the coding potential of sORFs in plant lncRNAs"

Shihao Xia, Jun Meng, Zhaowei Wang, Yu Wang, Haibin Li, Zhaojing Qin, and Yushi Luan

B265 "Emotion Recognition based on Physiological Signals Multi-head Attention Contrastive Learning"

Yunfei Guo, Tao Zhang, and Wu Huang

B274 "Interpretable attention network with multi-view learning for drug-drug interaction prediction"

Xuan Lin, Qi Wen, Sijie Yang, Zu-Guo Yu, Yahui Long, and Xiangxiang Zeng

B275 "Decoupling MIL Transformer-based Network for Weakly Supervised Polyp Detection"

Hantao Zhang, Risheng Xie, Shouhong Wan, and Peiquan Jin

B282 "Polyp2Former: Boundary Guided Network Based on Transformer for Polyp Segmentation"

Xiaoshuang Huang, Jinze Huang, Shuo Wang, Yaoguang Wei, Dong An, and Jincun Liu

B283 "KSGTN-DDI: Key Substructure-aware Graph Transformer Network for Drug-drug Interaction Prediction"

Peiliang Zhang, Jingling Yuan, Yuanjie Liu, Zhishu Shen, and Lin Li

B285 "Spatial-Temporal Fusion Pseudo-Labeling Based Informative Frame Classification for Confocal Laser Endomicroscopy Video"

Zhaohui Wang, Xiangwei Zheng, Dejian Su, and Mingzhe Zhang

B286 "Exploring Early Stress Detection from Multimodal Time Series with Deep Reinforcement Learning"

Leonardo Furia, Matteo Tortora, Paolo Soda, and Rosa Sicilia

B289 "MulAxialGO: Muti-modal Feature-enhanced Deep Learning model for Protein Function Prediction"

Xun Wang, Peng Qu, Xiangyu Meng, Qing Yang, Lian Qiao, and Chaogang Zhang

B292 "TNFIPs-Net: A deep learning model based on multi-feature fusion for prediction of TNF- $\alpha$  inducing epitopes"

Shengli Zhang, Yujie Xu, Yuanyuan Jing, and Yunyun Liang

B296 "Class-specific Prompts in Vision Transformer for Continual Learning of New Diseases"

Defeng Zhao, Zejun Ye, Weishi Zheng, and Ruixuan Wang

B297 "MSCCNet: Multi-Scale Convolution-Capsule Network for Cervical Cell Classification"

Hua Chen, Juan Liu, Peng Jiang, Yu Jin, Jing Feng, Baochuan Pang, Dehua Cao, and Cheng Li

B306 "Temporal Context Alignment for One-shot Medical Video Object Segmentation"

Xiafan Li and Hongyan Quan

B308 "ssRRNet: Semi-supervised Image Segmentation based on Regularized Residual Learning"

Xiafan Li and Hongyan Quan

B326 "MoSCHG: Multi-omics Single-cell Classification based on Heterogeneous Graphs and Supervised Contrastive Learning"  
Xinjian Chen, Chenyang Xie, Yunhao Zhang, Song He, Xiaochen Bo, and Zhongnan Zhang

B327 "Drug-target and Drug-disease Association Prediction based on Drug-target-disease Network and Multi-task Learning"  
Binyu Wang, Yunhao Zhang, Hongyan Ye, Lianlian Wu, Song He, Xiaochen Bo, and Zhongnan Zhang

B337 "Advancing Precision Medicine: Treatment Regimen Recommendations via Siamese Neural Networks"  
Qianwen Meng, Yonghui Xu, Fanglin Zhu, and Lizhen Cui

B348 "Bézier Curves Meet Deep Learning: A Novel Pretraining Method for Improved and Generalized Retinal Vessel Segmentation"  
Luyu Niu, Xiaojuan Chen, and Song Guo

B351 "Semantic-guided unknown-aware Rare Disease Diagnosis"  
Yiwen Luo and Yixuan Yuan

B355 "Interpretable Deep Learning Models With Concept Whitening Layers"  
Megana Reddy Boddam and Wooyoung Kim

B358 "LDE-UNet: A Novel Model for Rapid COVID-19 Diagnosis via CT Image Segmentation"  
QiSong Wang, JiaRou Wu, YingZhuo Wang, HuiLi Qu, Shanling Nie, and Hai Yang

B360 "An efficient domain adaptation framework for cross-subject EEG classification"  
Tian-jian Luo

B369 "TGAAL: Combining Transformer-based GAN and active learning to identify the coding potential of sORFs in plant lncRNAs"  
Yu Wang, Jun Meng, Shihao Xia, Haibin Li, Zhaowei Wang, and Yushi Luan

B370 "Cervical Cytology Classification with Coarse Labels Based on Two-Stage Weakly Supervised Contrastive Learning Framework"  
Siyi Chai, Jingmin Xin, Jiayi Wu, Hongxuan Yu, Zhaohai Liang, Yong Ma, and Nanning Zheng

B372 "Brain Functional Residual Temporal Convolution Network for Major Depressive Disorder Recognition"  
Xiaofang Sun, Yonghui Xu, Xiangwei Zheng, Wei Guo, Wei He, Yali Jiang, Yongqing Zheng, and Lizhen Cui

B373 "HistDeblur: A Pyramid Trustworthy Framework for Blurry Histologic Artifacts Quality Control"  
Yuxiang Sun, Kai Liu, Yiqing Shen, XiaoDan Han, and Jing Ke

B379 "TF-DTA: A Deep Learning Approach Using Transformer Encoder to Predict Drug-Target Binding Affinity"  
WENJUN LI, YIQIANG ZHOU, and XIWEI TANG

B381 "scBERC: A Batch Effect-Removed Clustering method for single-cell omics"

Yitao Zhou, Ying Wang, Feng Zeng, and Fan Yang

- B384 "CSIFNet: Deep multimodal network based on cellular spatial information fusion for survival prediction"  
Siqi Xiao and Zhiming Dai
- B394 "Interactive Ultrasound Prostate Cancer Segmentation using Deep Learning with Principal Curve-based Fine-tuning"  
Tao Peng, Caishan Wang, Ting Hu, Hui Mao, Gongye DI, and Lei Zhang
- B398 "A Control Chart Method for Simultaneously Monitoring the Average Level and Stability of Surgical Quality"  
Ruoyu Liu, Xin Lai, Jiayin Wang, Paul B.S. Lai, and Ka Chun Chong
- B400 "Real-time Neuron Segmentation for Voltage Imaging"  
Yosuke Bando, Ramdas Pillai, Atsushi Kajita, Farhan Abdul Hakeem, Yves Quemener, Hua-an Tseng, Kiryl Piatkevich, Changyang Linghu, Xue Han, and Edward Boyden
- B411 "Adaptive Bayesian Meta-Learning for EEG Signal Classification"  
Xin Guo, Jianping Zhu, Liang Zhang, Bo Jin, and Xiaopeng Wei
- B413 "GRAIGH: Gene Regulation accessibility integrating GeneHancer database"  
Lorenzo Martini, Roberta Bardini, Alessandro Savino, and Stefano Di Carlo
- B416 "Unsupervised Domain Adaptation by Cross-Prototype Contrastive Learning for Medical Image Segmentation"  
Zhuotong Cai, Jingmin Xin, Siyuan Dong, Chenyu You, Peiwen Shi, Tianyi Zeng, Jiazhen Zhang, John Onofrey, Nanning Zheng, and James Duncan
- B422 "GRPGAT: Predicting CircRNA-disease Associations Based on Graph Random Propagation Network and Graph Attention Network"  
WenYue Kang, YingLian Gao, Junliang Shang, ChunHou Zheng, Juan Wang, and JinXing Liu
- B426 "Confidence-Guided Weakly-Supervised Visual Evidence Discovering for Trustworthy Glaucoma Diagnosis"  
Rongchang zhao, Siyu Chen, Jin Liu, and Jian Zhang
- B428 "A computational framework for personalized cancer drug response prediction based on deep transfer learning from combined denoised genomic profiles and chemical structure embedding of drugs"  
Yuchen Zhang, Linghang Lian, and Xuhua Yang
- B437 "Prediction of Metabolic Syndrome Based on Machine Learning Techniques with Emphasis on Feature Relevances and Explainability Analysis"  
Begoña Ispizua, Diana Manjarres, and Iratxe Niño
- B439 "A Network Propagation Based Approach for Measuring Cell-Cell Similarity"  
Jie Li, Bingbo Wang, and Jiaqi Li
- B448 "Radiology Report Generation via Structured Knowledge-Enhanced Multi-modal Attention and Contrastive Learning"  
Dexuan Xu, Yanyuan Chen, Jiayu Zhang, Yiwei Lou, Hanpin Wang, Jing He, and Yu Huang

- B453 "pCCI: A machine learning patient-centric cell-cell interactions framework for cancer subtype classification"  
Pantelis Papageorgiou, Aigli Korfiati, Aristotelis Misios, Aristidis G. Vrahatis, Alexandros Pittis, Bogdan Tanasa, Konstantinos Mavrommatis, Yilin Zhao, Tao Yang, and Vassilis Pitsikalis
- B455 "Detection of Symptoms of Depression Using Data From the iPhone and Apple Watch"  
Samir Akre, Zachary D. Cohen, Amelia Welborn, Tomsilav D. Zbozinek, Brunilda Balliu, Jonathan Flint, Alex A.T. Bui, and Michelle G. Craske
- B457 "Harnessing Transfer Learning for Dementia Prediction: Leveraging Sex-Different Mild Cognitive Impairment Prognosis"  
Ziming Liu, Muskan Garg, Sunyang Fu, Surjodeep Sarkar, Maria Vassilaki, Ronald Petersen, Jennifer Sauver, and Sunghwan Sohn
- B459 "An Optimized-skeleton Based Parkinsonian Gait Auxiliary Diagnosis Method with Both Monitoring Indicators and Assisted Ratings"  
Gaoqi Li, Chi-Man Pun, Haolun Li, Jian Xiong, Feng Xu, and Hao Gao
- B460 "Coarse-Fine View Attention Alignment-Based GAN for CT Reconstruction from Biplanar X-Rays"  
Zhi Qiao, Dongheng Chu, Hanqiang Ouyang, Huishu Yuan, Xiantong Zhen, Pei Dong, and Zhen Qian
- B461 "AF Adapter: Continual Pretraining for Building Chinese Biomedical Language Model"  
Yongyu Yan, Kui Xue, Xiaoming Shi, Qi Ye, Jingping Liu, and Tong Ruan
- B466 "Deep-USIpred: identifying substrates of ubiquitin protein ligases E3 and deubiquitinases with pretrained protein embedding and bayesian neural network"  
Jia Wang, Gui-Qing Pan, Jian-Qiang Li, Xue-Qun Shang, Zhu-Hong You, and Yu-An Huang
- B469 "Long Video Micro-expression Spotting Based On OCC Theory"  
Bingtong Liu, Zheyuan Zhang, Ju Zhou, Hanpu Wang, Yingjuan Jia, and Tong Chen
- B472 "A Diffusion Model-based Joint Dual-Task Network for Low-Quality Retinal Image Enhancement and Vessel Segmentation"  
Fengting Liu and Wenhui Huang
- B482 "ParallelCoDiff: Parallel Cooperative Diffusion Model for Joint Optic Disc and Cup Segmentation"  
Wenqing Li and Wenhui Huang
- B486 "Multi-layer Feature Refinement Extraction With Contrastive Learning For Cervical OCT Image Classification"  
Yifei Liu, Qingbin Wang, Ling Zhang, and Kai Zhang
- B495 "Towards Modeling Human Biorhythms Using Non-Invasive Approaches"  
Kapotaksha Das, Mohamed Abouelenien, Mihai Burzo, John Elson, Ali Hassani, and Clay Maranville

B500 "A Novel Effectiveness Assessment Framework for Neoadjuvant Chemoradiotherapy of Locally Advanced Rectal Cancer Based on Multi-modal Intelligence"  
Xiao Tian and Dong Sui

B501 "DSA-MFNet: Deep-shallow Attention based Multi-frame Fusion Network for EEG motor imagery classification"  
Huifu Li, Xun Zhang, Yuchai Wan, and Xin Zhang

B503 "Discrete Residual Diffusion Model for High-Resolution Prostate MRI Synthesis"  
Zhitao Han and Wenhui Huang

B514 "A Time-Guided Method for Constructing Combined Medical Event Chains"  
Lishuang Li, Tianqi Hu, and Xueyang Qin

B515 "What will regularized continuous learning performs if it was used to medical image segmentation: a preliminary analysis"  
Weihaio Dai, Chaolu Feng, Shuaizheng Chen, Wei Li, Jinzhu Yang, and Dazhe Zhao

B527 "AutoDDI: drug-drug interaction prediction with automated graph neural network"  
Zhenpeng Wu, Jiamin Chen, Jianliang Gao, and Xiaohua Hu

B534 "Multi-modal Contrastive-Generative Pre-training for Fine-grained Skin Disease Diagnosis"  
Liangdi Ma, Jun Zhao, Guoxin Wang, Yuchen Guo, and Feng Xu

B536 "Multi-Modal Network based on Spatio-temporal and Attention for Emotion Recognition"  
Yong Zhang, Wenyun Chen, and Cheng Cheng

B537 "Stain Normalization and Augmentation in Frequency Space for Histology Analysis"  
Yingfan Li, Huaiji Zhou, Na Liu, and Yiqing Shen

B540 "Dynamic Graph Attention: Unraveling Spatio-Temporal Synchrony in EEG Data"  
Federica Proietto Salanitri, Giovanni Bellitto, Raffaele Mineo, Matteo Pennisi, Amelia Sorrenti, Salvatore Calcagno, Daniela Giordano, Simone Palazzo, and Concetto Spampinato

B541 "A Comprehensive Feature Aggregation Network for Sleep Apnea Detection using Respiratory Signals"  
Shiwen Shu and Kejing He

B543 "A Study of Medical Decision Recommendations Generation and Similarity Fusion Based on CDSS and ChatGPT-4"  
Ming Liu, Liang Xiao, Qianchen Wang, Ziji Liu, Rujun Zhu, and Miaomiao He

B548 "Competitive Ensembling Teacher-Student Framework for Semi-Supervised Left Atrium MRI Segmentation"  
Yuyan Shi, Yichi Zhang, and Shasha Wang

B553 "Graph-Based Alzheimer's Disease Diagnosis with Contrastive Learning and Graph Transformer"  
Yuting Zhang, Gongpeng Cao, Xingxing Xu, and Guixia Kang

B559 "Introducing an Open-Source Python Toolkit for Machine Learning Research in Physiological Signal based Affective Computing"  
Ruijie Fang, Ruoyu Zhang, Elahe Hosseini, Setareh Rafatirad, and Houman Hodayoun

B562 "Imputing single-cell RNA-seq data by graph autoencoder with multi-kernel"  
Kang Jiang, Bo Liao, Petros Papagerakis, and FangXiang Wu

B563 "Prediction of piRNA-mRNA interactions based on an interactive inference network"  
Yajun Liu, Ru LI, Aimin Li, Rong Fei, Xie Guo, and Fang-Xiang Wu

B573 "Parallel Computation of Conformational Stability for CD4+ T-cell Epitope Prediction"  
Avik Bhattacharya, James Wrabl, Samuel Landry, and Ramgopal Mettu

B580 "A Collaborative Cross-Attention Drug Recommendation Model Based on Patient and Medical Relationship Representations"  
Yourong Li, Yuliang Shi, Yide Jin, Xinjun Wang, Zhongmin Yan, Zhiyong Chen, and Fanyu Kong

B584 "Feature-Enhanced Multi-Channel Parallel Inference Network for Document-level Relation Extraction"  
Lishuang Li, Tianqi Hu, Xueyang Qin, Jing Hao, Meiling Ge, and Huxiong Chen

B596 "Health and Senior Care Video Moment Localization With Procedure Knowledge Distillation"  
Chaochen Wu, Meiyun Zuo, and Guan Luo

B599 "scHi-CNN: a Computational Method for Statistically Significant Single-cell Hi-C Chromatin Interactions with Nearest Neighbors"  
Chanaka Bulathsinghalage and Lu Liu

B604 "TransPocket: Structural and Geometric Transformer for Protein Binding Site Detection"  
Yang Zhang, Wenbing Huang, Zhewei Wei, and Chongxuan Li

B609 "Essential proteins identification based on weak consensus model and neighborhood aggregation centrality"  
Zhipeng Hu, Gaoshi Li, Jingli Wu, Xinlong Luo, Jiafei Liu, Wei Peng, and Xiaoshu Zhu

B627 "IDAA-NET: An Image Domain Adaptive Alignment Network for Unsupervised Liver Vessel Segmentation from CTA Images"  
Haixiao Geng, Jingfan Fan, Yujia Yuan, Danni Ai, Feng Duan, and Jian Yang

B629 "A Weak Supervision-based Robust Pretraining Method for Medical Visual Question Answering"  
Shuning He, Haiwei Pan, Kejia Zhang, Cheng Gong, and Zhe Li

B630 "FedCCE: A class-level contribution explainable federated learning based on comparable prototypes collaboration for multi-site medical image classification"

Bo Lin, Jing Wang, Yunfei Dou, Yuquan Zhang, Wei Yue, Gang Yu, and Jianwei Yin

B641 "A deep graph convolution network with attention for clustering scRNA-seq data"

Xiang Chen, Junnan Yu, Li Peng, and Min Li

B645 "Combining Tags of Various Lengths Benefits Peptide Identification in Bottom-up Proteomics"

Shengzhi Lai, Ning Li, and Weichuan Yu

B656 "DeepLA: A deep learning-based model for predicting protein function from protein sequence and evolutionary information"

Bing Jia, Tao Feng, Chenri Li, Baoqi Huang, Fei Hao, and Dongjun Liu

B666 "DD-UNet: Densely Dilated U-Net for Curvilinear Structure Segmentation in Fundus Image"

Yindong Zhang, Jie Chen, Li Wang, Miaohong Chen, Guoming Zhang, and Jianqiang Li

B674 "PLFormer: Prompt Learning for Early Warning of Unplanned Extubation in ICU"

Yang Chen, Tian He, Xu Gao, Hong Cheng, and Ling Wang

B683 "An Effective Microbial-drug Relation Extraction Model Based on Dual Graph Convolutional Networks"

Ruizhe Zhang, Dandan Li, Ying Xiao, Weizhong Zhao, Xingpeng Jiang, and Xianjun Shen

B686 "Multi-Visit Interactive Recalibration Network for Drug Recommendation with a Triple Graph Encoder"

Xiaobo Li, Yijia Zhang, Xiaodi Hou, Fanjun Meng, and Hongfei Lin

B688 "PACS: Prediction and analysis of cancer subtypes from multi-omics data based on a multi-head attention mechanism model"

Liangrui Pan, Dazheng Liu, Zhichao Feng, Wenjuan Liu, and Shaoliang Peng

B691 "Multi-source unsupervised domain-adaptation for automatic sleep staging"

Yangxin Zhu, Shikui Tu, Lin Zhang, and Lei Xu

B699 "Identification of Single-Cell RNA Sequencing Molecular Signatures for COVID-19 Infection Severity Classification"

Xinling Li, Cheng Zhang, Wei-An Chen, Wenqi Shi, and May Wang

B703 "GroupSeg: An Efficient Grouping Transformer Network for Polyp Segmentation"

Mingwen Zhang, Haiying Xia, and Yumei Tan

B705 "Multi-view Brain Networks Construction for Alzheimer's Disease Diagnosis"

Yuefeng Ma, Tengfei Zhang, Zeqi Wu, Xiaochen Mu, Xun Liang, and Lanzhen Guo



B712 "Synthesizing with Diffusion model for improving medical image segmentation performance"  
Zengan Huang, Qin Zhu Yang, Mu Tian, and Yi Gao

B713 "DR-ConvNeXt: A Dilated Residual Network based on ConvNeXt for Lung Nodule Features Prediction"  
Zehao Qi, GuoWei Tao, Feng Liu, Hao Gui, Wen Cai Huang, and Jia Ni Zou

B716 "A Dynamic Composite Ensemble Learning Framework for Multi-Stage Dementia Prediction"  
Bangyan Li, Xingjiao Wu, Yuling Sun, and Liang He

B724 "Graph Neural Networks with Geometric Edge Fusion and Point Downsampling for Drug-Target Interaction Prediction"  
Xinyu Zhu, Li Li, and Weiming Lu

B726 "ScribblePolyp: Scribble-Supervised Polyp Segmentation through Dual Consistency Alignment"  
Zixun Zhang, Yuncheng Jiang, Jun Wei, Hannah Cui, and Zhen Li

B732 "Spatio-Temporal Swin Transformer-based 4-D EEG Emotion Recognition"  
Zongnan Chen, Jiarui Jin, and Jiahui Pan

B741 "Comprehensive evaluation of RNA-seq alignment methods based on long-read sequencing data"  
Yadong Liu, Zhenhao Lu, Zhongyu Liu, Hongzhe Guo, Yadong Wang, and Tao Jiang

B745 "Advancing Pancreas Segmentation through the Patch-Adjust Fusion Framework"  
yong zhang, Yi Wang, and Bin Fang

B756 "SegmA: Residue Segmentation of cryo-EM density maps"  
Mark Rozanov and Haim Wolfson

B758 "Simulation of ECG Using a Rabbit Cardiac Conduction Model with Dual-Pathway Atrioventricular Node"  
Maxim Ryzhii and Elena Ryzhii

B762 "The Construction of Sparse Probabilistic Boolean Networks: A Discrete Perspective"  
Christopher H. Fok, Wai-Ki Ching, and Chi-Wing Wong

B765 "A generalizable physiological model for detection of Delayed Cerebral Ischemia using Federated Learning"  
Ahmed Elhoussein, Murad Megjahn, Daniel Nametz, Miriam Weiss, Jude Savarraj, Soon Bin Kwon, David J. Roh, Saachin Agarwal, E. Sander Connolly, Jr, Angela Velazquez, Jan Claassen, Huimahn A. Choi, Gerrit A. Schubert, Soojin Park, and Gamze Gürsoy

B782 "Explainable Transcription Factor Prediction with Protein Language Models"  
Liyuan Gao, Kyler Shu, Jun Zhang, and Victor.S Sheng

B788 "Low-Resource Efficient Multi-Stage Tuning Strategy for Biomedical Question Answering Task"  
Binrui Wang, Yongping Du, Xingnan Jin, Rui Yan, and Qi Zhang

- B789 "Trans-UNeter: A new Decoder of TransUNet for Medical Image Segmentation"  
Jianfeng Qin, Jiakun Yu, Jinhai Xiang, Xinwei He, and Wen Zhang
- B790 "UMCL: Unified Medical Image-Text-Label Contrastive Learning With Continuous Prompt"  
Yuhao Wang and Guangyu Wang
- B797 "Efficient Global-Context driven Volumetric Segmentation of Abdominal Images"  
Pallabi Dutta and Sushmita Mitra
- B800 "Implicit Feature Augmentation with Feature Transfer For Class-Imbalanced Medical Image Classification"  
Mei Yu, Hao Zheng, Xuwei Li, Jie Gao, Xuzhou Fu, Zhiqiang Liu, and Ruiguo Yu
- B808 "Improved YOLOX Framework for Automatic Large Intracranial Artery Stenosis Detection in Digital Subtraction Angiography Images"  
Wei jin Xu, Huihua Yang, Tao Tan, Wentao Liu, Feng Gao, Yiming Deng, Xipeng Pan, and Ruisheng Su
- B832 "KEXNet: A Knowledge-Enhanced Model for Improved Chest X-ray Lesion Detection"  
Quan Yan, Junwen Duan, and Jianxin Wang
- B849 "Specific-Modal Spatial Guidance and Feature Enhancement for Multi-modal Brain Tumor Segmentation"  
Junyang Han, Hongzhi Liu, Shiyu Zhu, Jiacheng Nie, Weixuan Wan, Chunfeng Yang, Wenxue Yu, Pinzheng Zhang, Xiaoying Tang, Yang Chen, Shijie Wang, Cheng Xue, and Jean-Louis Coatrieux
- B850 "Protein Function Prediction with Primary-Tertiary Hierarchical Learning"  
Arnold Kazadi, Ming Zhang, and Jingbo Zhou
- B861 "Multimodal reasoning for nutrition and human health via knowledge graph embedding"  
Chengcheng Fu, Yanan Yao, Jieyu Wu, Weizhong Zhao, Tingting He, and Xingpeng Jiang
- B862 "Biomedical Entity and Relation Extraction Based on Triple Region Vertices"  
Yuqi Liu, Zhihao Yang, Jinzhong Ning, Yin Zhang, Wei Liu, Hongfei Lin, and Jian Wang
- B863 "EEG based Parkinson Detection through Supervised Information Enhanced Contrastive Learning"  
Jian Song, Xiang Li, Wenjing Jiang, Chunxiao Wang, Zhigang Zhao, Jialiang Lv, and Bin Hu
- B864 "SpliceCannon: A novel framework for the prediction of canonical and non-canonical splice sites based on deep learning"  
Yanju Zhang, Wangjing Qi, Ruohan Lin, and Jinli Fan

B870 "Predicting Tumor Mutation Burden of Lung Cancer Based on Residual Network"  
Xiangfu Meng, Chunlin Yu, and Xiaoyan Zhang

B873 "AiA-UNet: Attention in Attention for Medical Image Segmentation"  
Jianfeng Qin, Jiakun Yu, Jinhai Xiang, Xinwei He, and Wen Zhang

B888 "PandoraRLO: Unveiling Protein-Ligand Interactions with Reinforcement Learning for Optimized Pose Prediction"  
Justin Jose, Ujjaini Alam, Divye Singh, and Pooja Arora

B893 "End-to-End PPG Processing Pipeline for Wearables: From Quality Assessment and Motion Artifacts Removal to HR/HRV Feature Extraction"  
Mohammad Feli, Kianoosh Kazemi, Iman Azimi, Yuning Wang, Amir Rahmani, and Pasi Liljeberg

B906 "SE(3) Equivalent Graph Attention Network as an Energy-Based Model for Protein Side Chain Conformation"  
Deqin Liu, Sheng Chen, Shuangjia Zheng, Sen Zhang, and Yuedong Yang

B916 "Imputing time-series microbiome abundance profiles with diffusion model"  
Misato Seki, Yao-zhong Zhang, and Seiya Imoto

B923 "A Heterogeneous Ranking Contrastive Learning Method for Drug-Target Interaction Prediction"  
Desheng Kong, Xu Jin, Yanhao Li, Maoqiang Xie, Jingjing He, Mingming Liu, Yalou Huang, Weiwei Yang, Hao Shi, and Yiran Wan

B927 "Online Continual EEG Classification with Dynamic Memory Evolution: A Principled Approach"  
Tiehang Duan, Zhenyi Wang, Gianfranco Doretto, Fang Li, Cui Tao, and Donald Adjeroh

B929 "IRPRI: An immune-related prognostic risk indicator for patients with lymphatic invasive colon cancer"  
Yue Liu, Yang Hu, and Yadong Wang

B934 "High-risk Factor Prediction in Lung Cancer Using Thin CT Scans: An Attention-Enhanced Graph Convolutional Network Approach"  
Xiaotong Fu, Xiangyu Meng, Jing Zhou, and Ying Ji

B936 "HiSwin UT: Hybrid Swin Transformers Network for Segmenting 3D in vivo Two-photon Images of Rodent Cerebrovasculature"  
Jie Li, Chong Wang, Zizhen Li, Hao Li, Mingzhu Sun, and Xin Zhao

B940 "Self-supervised Distillation and Multi-scale Network for Parkinson's Disease Classification"  
Haijun Lei, Chengjia Liang, Yuchen Zhang, Shuyuan lei, and Baiying Lei

B943 "Cervical OCT Image Synthesis via Noise Adaptation Diffusion Models"  
Yuxuan Xiong, Yimin Luo, Qian Tang, Yan Zhang, and Bo Du

B944 "Conservative Q-Learning for Mechanical Ventilation Treatment Using Diagnose Transformer-Encoder"  
Yuyu Yuan, Jinsheng Shi, Jincui Yang, Chenlong Li, Yuang Cai, and Baoyu Tang

B948 "GTDDA: Graph Convolutional Network and Graph Transformer Structure for Drug Repositioning"  
Jialan Tang, Xiaoting Zeng, Pingkang Li, Weilin Chen, and Baiying Lei

B950 "Topic-BiGRU-U-Net for Document-level Relation Extraction from Biomedical Literature"  
Yali Zhao and Rong Yan

B959 "ADCL: an adaptive dual contrastive learning framework based on MHGAT and VAE for cell type deconvolution in spatial transcriptomics"  
Shilin Zhang and Qingchen Zhang

B960 "Recognizing Anxiety and Depression through LLMs Virtual Interactions: A Case Study with ChatGPT"  
Yongfeng Tao, Minqiang Yang, Hao Shen, Zhichao Yang, Ziru Weng, and Bin Hu

B961 "BTCN: Bridging the Gap Between Pre-trained and Downstream Models for Endoscopic Caries Detection"  
Nan Gao, Yukai Li, Ronghua Liang, Peng Chen, Jijun Tang, and Tianshuang Liu

B962 "Enhanced Knowledge Injection for Radiology Report Generation"  
Qingqiu Li, Jilan Xu, Runtian Yuan, Mohan Chen, Yuejie Zhang, Rui Feng, Xiaobo Zhang, and Shang Gao

B968 "Predicting Chronic Obstructive Pulmonary Disease Based on Multi-Stage Composite Ensemble Learning Framework"  
Liang Zhao, Zhanxin Gang, Chaoran Jia, Yu Shao, Chenhua Guo, and Jing Gao

B974 "ERU-Net: An Enhanced Regression U-Net with Attention Gate and Adaptive Feature Fusion Block for Brain Age Prediction"  
Jiaxiang Cao, Yixiao Hu, and Baobin Li

B976 "Enhancing Drug Repositioning through Contrast Learning and Denoised Negative Sampling"  
Kunyu Ni, Rongkang Xu, Yu Huang, and Xiaomei Wei

B979 "A Non-Invasive Approach to Estimate Lactate Based on Data from Wearable Sensors"  
Hamed Darbandi, Carolien Munsters, and Paul Havinga

B982 "Biomedical Event Detection Based on Domain Knowledge Injection and Model Dual Channel Fine-tuning"  
Xinyu He, Xue Han, and Shixin Li

B997 "Generating Molecules Conditional on 3D Protein Pockets Hypergraph with HGNN"  
Qinglian Zhu, Xiaoli Lin, and Xiaolong Zhang

B1004 "SEDGCN: Sentiment Enhanced Dual Graph Convolutional Networks for Detecting Adverse Drug Reactions"  
yunzhi qiu, xiaokun zhang, weiwei wang, youlin wu, bo xu, and Hongfei Lin

B1005 "Named Entity Recognition for Chinese EMR Based on Adaptive Sentence Training Weights"

Junwen Duan, Weiguang Huang, Shuyue Liu, Han Jiang, Huai Guo, and Jianxin Wang

B1008 "Mutual Graph Learning Network and Diffusion Probabilistic Model-based Medical Image Segmentation"

Huaqiang Su, Haijun Lei, Xin Chen, and Baiying Lei

B1009 "Tackling Challenges of Low-texture and Illumination Variations for Endoscopy Self-supervised Monocular Depth Estimation"

Luyan Zhou, Jingjing Luo, Hongbo Wang, Shizun Zhao, and Wenxian Li

B1012 "Enhancing Classification Tasks through Domain Adaptation Strategies"

AHMAD CHADDAD and YIHANG WU

B1020 "Fast MRI Reconstruction via Boosting Filter Diversity of Deep Cascading Networks"

Xiao-Xin Li, Wen-Hao Zheng, Haigen Hu, and Lei Chen

B1022 "PnP-AE: A Plug-and-Play Module for Volumetric Medical Image Segmentation"

Qiankun Li, Xiaolong Huang, Bo Fang, Yani Zhang, Yongyong Chen, and Junxin Chen

B1023 "Towards Efficient Medical Dialogue Summarization with Compacting-Abstractive Model"

Jiaxin Duan, Fengyu lu, and Junfei Liu

B1025 "An Entity Pair-Based Neural Network Embedded Decision Tree for Biomedical Interaction Prediction"

Jiayu Zou, Lianlian Wu, Kunhong Liu, Yong Xu, Song He, and Xiaochen Bo

B1027 "Dual Branch CNN and Transformer for Cardiac Atherosclerotic Plaque Classification"

Haijun Lei, Guanjie Tong, Huaqiang Su, Jia Zhao, Longjiang zhang, and Baiying Lei

B1045 "TetraCVD: a temporal-textual Transformer based model for cardiovascular disease diagnosis"

Kailong Lu, Fei Zhao, Penghuan Gu, Haoyan Wang, and Tianyi Zang

B1049 "A Self-Attention Based DNN Model to Classify Dynamic Functional Connectivity for Autism Spectrum Disorder Diagnosis"

Libiao Chen, Sizhe Wang, Zhenyu Wei, Yaoqing Zhang, Mengzhu Luo, and Yin Liang

B1051 "A Closer Look at Weak Supervision's Limitations in WSI Recurrence Score Prediction"

Namitha Guruprasad, Amir Akbarnejad, Gilbert Bigras, Penny J. Barnes, and Nilanjan Ray

B1063 "Multi-level Knowledge Integration with Graph Convolutional Network for Cancer Molecular Subtype Classification"

Sujia Huang, Shunxin Xiao, Wenzhe Liu, Jielong lu, Zhihao Wu, and Jagath Rajapakse

B1068 "PEST: A General-Purpose Protein Embedding Model for Homology Search"  
Yongchang Liu, Peiying Li, Shikui Tu, and Lei Xu

B1069 "High-Activity Enhancer Generation based on Feedback GAN with Domain Constraint and Curriculum Learning"  
Jiahao Li, Liwei Xiao, Jiawei Luo, Xianliang Liu, and Junjie Chen

B1074 "Inference of subgenomes resulting from polyploid events using synteny based dynamic linking and maximum neighbourhood"  
Thulani Hewavithana, Chu Shin Koh, Avleen Kaur, Raymond Spiteri, Isobel Parkin, and Lingling Jin

B1075 "Integrated Local and Global Information for Health Risk Prediction Model"  
Tao You, Qiaodong Dang, and Qing Li

B1086 "An Improved Vision-Transformer Network for Skin Cancer Classification"  
Gayathri Mol Shajimon, Isreal Ufumaka, and Haider Raza

B1087 "PLMTHP: An Ensemble Framework for Tumor Homing Peptide Prediction based on Protein Language Model"  
Yongbing Chen, Han Qin, Xiaodan Cui, Tianhui Yang, Pingping Sun, Jianting Gong, and Zilin Ren

B1089 "Multi-modal Learning with Missing Modality in Predicting Axillary Lymph Node Metastasis"  
Shichuan Zhang, Sunyi Zheng, Zhongyi Shui, Honglin Li, and Lin Yang

B1090 "WheelNet: Weakly-Supervised Multi-Contrastive Learning for Predicting Vulnerable Coronary Atherosclerosis Plaques from Coronary Computed Tomography Angiography"  
Lingwen Hou, Yabin Wang, Site Ma, Xin Cao, Xiaowei He, Jimin Liang, Feng Cao, and Fengjun Zhao

B1092 "Interactive Multi-object Segmentation for Pathological Images with Similarity-based Propagation"  
Jiawei Wang, Jinhua Liu, Lin Chen, Guangshun Wei, and Yuanfeng Zhou

B1094 "Pathological Tissue-level Contour Genomic Profile Interpretation of Lung Adenocarcinoma via Spatial and Morphological Features Co-action Graph Neural Network"  
Yu Yu, Wen Shi, Guoxi Xie, and Jianing Xi

B1105 "Trusted Fine-grained Medical Image Classification through Multiple Evidence Fusion"  
Zhikang Xu, Xiaodong Yue, Bofeng Zhang, Ying Lv, and Zhipeng Wei

B1107 "Supervised Domain Adaptation for Recognizing Retinal Diseases from Wide-Field Fundus Images"  
Qijie Wei, Jingyuan Yang, Bo Wang, Jinrui Wang, Jianchun Zhao, Xinyu Zhao, Sheng Yang, Niranchana Manivannan, Youxin Chen, Dayong Ding, Jing Zhou, and Xirong Li

B1384 "Spatio-temporal Similarity Measure based Multi-Task Learning for Predicting Alzheimer's Disease Progression using MRI data"  
Xulong Wang, Yu Zhang, Menghui Zhou, Tong Liu, Jun Qi, and Po Yang

B1702 "Genotype-to-Phenotype Associations with Frequented Region Variants"  
Indika Kahanda, Buwani Manuweera, Brendan Mumeey, Thiruvarangan Ramaraj,  
Alan Cleary, and Joann Mudge

B1976 "ProBioRE: A Framework for Biomedical Causal Relation Extraction Based  
on Dual-head Prompt and Prototypical Network"  
Lishuang Li and Wanting Ning

B1995 "Variational Autoencoder with Temporal Condition for Effective Shape-  
based Calcium Imaging Neuron Registration"  
Cyrus Y. H. Fung, Sudipta Acharya, Tak Pan Wong, and Steven H. H. Ding

B1999 "Privacy Risks Analysis and Mitigation in Federated Learning for  
Medical Images"  
Badhan Chandra Das, M. Hadi Amini, and Yanzhao Wu

B2005 "DCA: Densely Cross-scale Attention Network for Anatomically-plausible  
Medical Image Segmentation"  
Yang Ning, Dawei Wang, Tianming Tan, and Caiming Zhang

B2020 "2D ViT and 1D CRNN-based Heart Sound Signals Detection Model"  
Zihan Tao, Zhimin Ren, Xiaoli Yang, Yanchun Liang, and Xiaohu Shi

B2024 "MTMap: A Long-Read Alignment Tool based on Multi-Core DSPs"  
Yufei Guo, Yingbo Cui, and Shijie Li

B2025 "Data Augmentation and Pseudo-sequence of fNIRS for Depression  
Recognition"  
Kai Shao, Yixue Hao, Long Hu, Xiaofen Zong, and Min Chen

B2027 "Interpretable Graph Convolutional Network for Alzheimer's Disease  
Diagnosis using Multi-Modal Imaging Genetics"  
Houliang Zhou, Yu Zhang, Lifang He, Li Shen, and Brian Chen

B2032 "Sequential Representation of Sparse Heterogeneous Data for Diabetes  
Risk Prediction"  
Rochana Chaturvedi, Mudassir Rashid, Brian Layden, Andrew Boyd, Ali  
Cinar, and Barbara Di Eugenio

B2033 "scGEMOC, A Graph Embedded Contrastive Learning Single-cell Multiomics  
Clustering Model"  
Bingjun Li and Sheida Nabavi

B2034 "Focusing Intracranial Aneurysm Lesion Segmentation by Graph  
Mask2Former with Local Refinement in DSA Images"  
Yancheng Mo, Yanlin Cheng, Yan Hu, Jiongfu Xu, Hao Wang, Limeng Dai, and  
Jiang Liu

B2036 "Identification of Important SNPs using Bayesian Deep Learning on  
Whole-Genome Arabidopsis Thaliana Data"  
Nikita Kohli, Javed Tomal, and Yan Yan

B2045 "Active Learning Framework for Cost-Effective TCR-Epitope Binding  
Affinity Prediction"  
Pengfei Zhang, Seojin Bang, and Heewook Lee

B2052 "Diurnal Pain Classification in Critically Ill Patients using Machine Learning on Accelerometry and Analgesic Data"  
Jessica Sena, Sabyasachi Bandyopadhyay, Andrea Davidson, Ziyuan Guan, Jesimon Bareto, Tezcan Ozrazgat-Baslanti, Patrick Tighe, Azra Bihorac, William Schwartz, and Parisa Rashidi

B2056 "Transfer learning Classification Algorithm by Exploiting Multi-source Adaptation and Similarity of omic data"  
Tao Yang, Minghua Wang, and Xiaoke Ma

B2064 "Ultra-fast and High-quality Mapping of Error-prone Long Reads"  
Boyuan Sun

B2078 "Using Deep Learning to Classify Full-Length Transcriptome Sequences"  
Weiguo Li, Junchi Ma, Cuiyuan Li, Ting Yu, and Xuefeng Cui

B2084 "Generating Twin VFs of Unlabeled and Unpaired VF through Generative Model"  
Zhenyu Zhang and Haogang Zhu

B2086 "GELKcat: An Integration Learning of Substrate Graph with Enzyme Embedding for Kcat prediction"  
Bing-Xue Du, Haoyang Yu, Bei Zhu, Yahui Long, Min Wu, and Jian-Yu Shi

B2088 "GCS-ICHNet: Assessment of Intracerebral Hemorrhage Prognosis using Self-Attention with Domain Knowledge Integration"  
Xuhao Shan, Xinyang Li, Ruiquan Ge, Shibin Wu, Ahmed Elazab, Jichao Zhu, Lingyan Zhang, Gangyong Jia, Qingying Xiao, Xiang Wan, and Changmiao Wang

B2098 "MCTT: Multimodal Contrastive Learning with Tabular and Time-series Data for Atrial Fibrillation Prediction"  
Liang Zhao, Jian Zhang, Yang Wang, Zhanxin Gang, and Ruixin Ma

B2103 "GEP-DL4Mol: A Novel Molecular Deep-learning Model Optimization Framework for Boosting Molecular Properties Prediction"  
Yuzhong Peng, Hao Zhang, Ziqiao Zhang, Shuigeng Zhou, and Shaojie Qiao

B2106 "DARE: Sequence-Structure Dual-Aware Encoder for RNA-Protein Binding Prediction"  
Luhan Shen, Chengxin He, Yuening Qu, Huiru Zheng, and Lei Duan

B2109 "Echoes of the Mind: Conformer Augmentation and Contrastive Loss in Audio-EEG Convergence"  
Jiyao Liu, Li Zhang, and Hao Wu

B2111 "Minimize Maximum Coverage of Fragment Alignment Selection"  
Yuyang Wang, Haodi Feng, Haitao Jiang, and Daming Zhu

B2115 "Transformer-Based Domain Adaptation for Multi-Modal Emotion Recognition in Response to Game Animation Videos"  
Jingyi-Yi Liu, Jia-Wen Liu, Wei-Long Zheng, and Bao-Liang Lu

B2126 "MKFN: Multimodal Knowledge Fusion Network for Automatic ICD Coding"  
Shilong Wang, Yijia Zhang, Xiaobo Li, Wen Qu, and Hongfei Lin

B2127 "miRNA-Disease Association Prediction based on Heterogeneous Graph Transformer with Multi-view similarity and Random Auto-encoder"



Yinbo Liu, Xiaodi Yan, Jun Li, Xinxin Ren, Qi Wu, Gang-ao Wang, Yuqing Chen, and Xiaolei Zhu

B2131 "Multi-granularity Information Flow Enhanced Skeleton-based Infant Seizure Detection"

huiyuan chen, weiting chen, na li, and yiqing zhang

B2144 "UniMOS: A Universal Framework For Multi-Organ Segmentation Over Label-Constrained Datasets"

Can Li, Sheng Shao, Junyi Qu, Shuchao Pang, and Mehmet A. Orgun

B2146 "FedARC: Federated Learning for Multi-Center Tuberculosis Chest X-ray Diagnosis with Adaptive Regularizing Contrastive Representation"

Chang Liu, Yong Luo, Yongchao Xu, and Bo Du

B2147 "A joint CNN-GNN framework for early diagnosis of AD using multi-source multi-modal data"

Yanteng Zhang, Xiaohai He, Lipei Zhang, Qingyan Cai, Xia Ren, and Yan Liu

B2148 "CCBox: Improving Box-supervised Nuclei Segmentation with Consistency Constraint"

Chaojun Zhang, Yixiong Liang, and Qing Liu