

IEEE BIBM 2024 Paper List

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

Regular Papers:

B252 "Enhancing Gene Cluster Identification and Classification in Bacterial Genomes Through Synonym Replacement and Deep Learning"

Zhihua Du, Ningyu Zhong, and Jianqiang Li

B322 "Combinative Bio-feature Proteins Generation via Pre-trained Protein Large Language Models"

Xin Sun and Yuhao Wu

B497 "Hierarchical Molecular Structure Network Based on Co-attention Mechanism for Drug-Drug Interaction Prediction"

Yue Luo and Lei Deng

B500 "ADiffGDA: Exploring Gene-Drug Associations via Adaptive Graph Diffusion Networks"

Che Zhang, Yanhao Fan, Xiaowen Hu, Yurong Qian, and Lei Deng

B512 "Knowledge-guided Protein Complex Identification with Fuzzy-based Graph Representation Learning"

Yue Yang, Guodong Li, Dongxu Li, Pengwei Hu, and Lun Hu

B609 "CodonT5: A Multi-task Codon Language Model to Perform Generative Codon Optimization"

Ashley Babjac and Scott Emrich

B646 "ViDTA: Enhanced Drug-Target Affinity Prediction via Virtual Graph Nodes and Attention-based Feature Fusion"

Minghui Li, Zikang Guo, Yang Wu, Peijin Guo, Yao Shi, Shengshan Hu, Wei Wan, and Shengqing Hu

B658 "FEATURE-pHLA: Physico-chemical features efficiently predict peptide-HLA binding affinity"

Hamda Alhosani, Raghvendra Mall, Ankita Singh, and Filippo Castiglione

B714 "GP-nano: a geometric graph network for nanobody polyreactivity prediction"

Xiaolong Zhou, Qianmu Yuan, Shuangjia Zheng, Yu Wang, and Yuedong Yang

B717 "FibGrid: Characterizing Anatomical Pathways in Hypergrid for Direct Tract Segmentation"

Yu Xie, Yazhe Zhai, Yifei He, Jiahao Yu, Jiaolong Qin, and Ye Wu

B907 "SVPS, pairwise whole genome alignment-based structural variant identification"

Malcolm Todd, Lingling Jin, and Ian McQuillan

B971 "MEMO-stab: Sequence-based Annotation of Mutation Effect on Transmembrane Protein Stability with Protein Language Model-Driven Machine Learning"

Zhe Liu, Yihang Bao, Wenhao Li, Weihao Li, Weidi Wang, and Guan Ning Lin

B1019 "Efficient Antibody Structure Refinement Using Energy-Guided SE(3) Flow Matching"

Jiying Zhang, Zijing Liu, Shengyuan Bai, He Cao, Yu Li, and Lei Zhang

B1244 "Secondary Structure-Guided Novel Protein Sequence Generation with Latent Graph Diffusion"

Yutong Hu, Yang Tan, Andi Han, Lirong Zheng, Liang Hong, and Bingxin Zhou

B1246 "SCOP: A Sequence-Structure Contrast-Aware Framework for Protein Function Prediction"

Runze Ma, Chengxin He, Huiru Zheng, Xinye Wang, Haiying Wang, Yidan Zhang, and Lei Duan

B1297 "TADClam: overlapped and hierarchical topologically associating domains detection with community affiliation model"

Zhao Ling, Shi Ying Li, Qiu Shi Liang, and Shuai Cheng Li

B1341 "TDLM: A Diffusion Language Model for TCR Sequence Exploration and Generation"

Haoyan Wang, Yuhang Yang, Yifei Huang, Tianyi Zang, and Yadong Liu

B1404 "ComLMEss: Combining multiple protein language models enables accurate essential protein prediction"

Xu Liu, Yiming Li, Fuhao Zhang, Ruiqing Zheng, Fei Guo, Min Li, and Min Zeng

B1477 "PocketLG: Protein Binding Pocket Identification Using Protein Language Model and Graph Transformer"

Li Zhang, Heng Chang, Zehua Sun, Wenjie Li, Li Zhu, and Han Wang

B1536 "Developing H5N1 Avian Influenza Mutation and Evolution Feature Analysis and Web Service"

Ming Xiao, Qichen Shang, Qiaozhen Zhang, Yi Xiao, Jun Yu, and Le Zhang

B1562 "RBP-Former: Joint Prediction of RNA-protein Binding Sites on Full-length RNA Transcripts for Multiple RBPs"

Yichong Li, Xiaojian Liu, Fan Cheng, Xiaoyong Pan, and Yang Yang

B1576 "Directed Evolution of Proteins via Bayesian Optimization in Embedding Space"

Matouš Soldát and Jiří Kléma

B1586 "GATBind: Accurate protein-RNA binding sites prediction via graph attention networks with pre-trained language model"

Siyuan Shen, Shangqian Wu, Jie Chen, Zhijian Huang, and Lei Deng

B1852 "Integrating Biological Language Processing and Memory Attention Model for Protein-DNA Binding Residue Prediction"

Shixuan Guan, Xiucai Ye, and Tetsuya Sakurai

Short Papers:

B220 "PICNIC: refinement of AlphaFold2 tertiary structure predictions using deep 3D residual neural networks"

Ross Stewart, Chenguang Zhao, Tong Liu, and Zheng Wang

B257 "AREDCI: Assessing Reproducibility and Differential Chromatin Interactions for ChIA-PET Sequencing Data"

Jialiang Sun, Zhihan Ruan, Chaoyang Yan, and Jian Liu

B294 "ProtSolM: Protein Solubility Prediction with Multi-modal Features"

Yang Tan, Jia Zheng, Liang Hong, and Bingxin Zhou

B371 "A Vectorization Method Induced By Maximal Margin Classification For Persistent Diagrams"

An Wu, Yu Pan, Fuqi Zhou, Jinghui Yan, and Chuanlu Liu

B374 "Protein Representation Learning with Sequence Information Embedding: Does it Always Lead to a Better Performance?"

Yang Tan, Lirong Zheng, Bozitao Zhong, Liang Hong, and Bingxin Zhou

B576 "Prediction of miRNA family based on class-incremental learning"

Yajun Liu, Lulu Qiu, Aimin Li, Rong Fei, Junhuai Li, and Fang-Xiang Wu

B585 "LMDTA: Molecular Pre-trained and Interaction Fine-tuned Attention Neural Network for Drug-Target Affinity Prediction"

Minjie Hu, Kuo Yang, Kuan Xu, and Xuezhong Zhou

B633 "Partition, Predict and Assemble: Targeting Long RNA Secondary Structure Prediction"

Xiaoya Fan, Yuming CUI, Zheng Zhao, Zengyou He, Qi Zhao, and Zhong Wang

B864 "M2oE: Multimodal Collaborative Expert Peptide Model"

Zengzhu Guo and Zhiqi Ma

B899 "GPU Acceleration of Conformational Stability Computation for CD4+ T-cell Epitope Prediction"

Jiarui Li, Samuel Landry, and Ramgopal Mettu

B972 "Predicting Psychosis Progression in Clinical High-Risk Individuals Using Peripheral Transcriptomic and Epigenomic Profiles: A Machine Learning Approach"

Zhe Liu, Weidi Wang, Mingxia Zhai, An Gu, Shunying Yu, and Guan Ning Lin

B1024 "IEARACDA: Predicting circRNA-disease associations based on information enhancement and arctangent rank approximation"

Shanchen Pang, Zheqi Song, Tiya Liu, Wenhao Wu, Yuanyuan Zhang, and Shudong Wang

B1126 "DrugEL: Ensemble Learning Model for Identification of Druggable Proteins"

Md. Mamun Ali, Kawsar Ahmed, Francis Bui, and Fang-Xiang Wu

B1255 "DISHIC: An Effective Tool for Differential Interaction Analysis in Single-Cell Hi-C Data"

Yichao Zhao, Ruiqing Zheng, Li Tang, Pengzhen Jia, and Min Li

B1380 "Predicting Antibody Stability pH Values from Amino Acid Sequences: Leveraging Protein Language Models for Formulation Optimization"

Takuya Tsutaoka, Noriji Kato, Toru Nishino, Yuangzhong Li, and Masahito Ohue

B1397 "SLP-T5: A New Method for Predicting Protein Sub-chloroplast Localization Based on Text-to-Text Transfer Transformer"

Ge Kong, Jiao Wang, Yuanhao Fan, and Juan Wang

B1620 "multiTAD: an Attention-Based Deep Learning Model for Identifying TAD Boundaries through Multi-Size Feature Integration"

Xue Wang, Li Tang, Hanyu Luo, Yajing Deng, and Min Li

B1746 "Prediction of single-stranded DNA binding proteins with protein language model"

Siwen Wu, Jinbo Xu, and Jun-tao Guo

B1811 "MFN: Explainable DNA triple helix Stabilized Design based on mCGR and flow network"

Xiaoru Wen, Lijun Sun, Lei Xie, Yanfen Zheng, Ben Cao, and Bin Wang

2. Computational Systems Biology

Regular Papers:

B387 "SMCL-MDR: Predicting miRNA-Drug Resistance using Self-Attention Mechanism and Contrastive Learning"

Jipu Jiang, Guihua Duan, and Cheng Yan

B518 "TSEML: A task-specific embedding-based method for few-shot classification of cancer molecular subtypes"

Ran Su, Rui Shi, Hui Cui, Ping Xuan, Xikang Feng, and Qiangguo Jin

B534 "NeuroSparse: An Unsupervised Framework for Inferring Brain Connectivity in Autism Diagnosis"

Shuqi Yang, Lijuan Zhang, Qing Lan, Qiujie Ma, huan Huang, Jiaqing Miao, Shiyu Mou, Dezhong Yao, Cheng Luo, and Ying Tan

B653 "scEAGC: an efficient anchor graph clustering for single-cell transcriptomics and proteomics data"

Qiaoming Liu, Yadong Wang, and Guohua Wang

B785 "Hypergraph-based Self-supervised Multi-channel Network for Drug-target Interaction Prediction"

Xiaoting Zeng, Yu Liang, Peng Yang, Weilin Chen, and Baiying Lei

B905 "Gene-Metabolite Association Prediction with Interactive Knowledge Transfer Enhanced Graph for Metabolite Production"

KEXUAN XIN, QINGYUN WANG, JUNYU CHEN, PENGFEI YU, HUIMIN ZHAO, and HENG JI

B1316 "Control backbone detection in omnigenic disease neighborhood targeting core module"

Yuxuan Cai, Bingbo Wang, and Junru Zheng

B1371 "EPI-RMDL: Prediction of Enhancer-Promoter Interactions Based on RoFormer Mechanism and Deep Learning"

Mengyun Song, Jie Wen, Yabin Kuang, and Minzhu Xie

B1409 "Integrating topology and biological information to predict essential proteins via Shannon entropy"

Yan Liu, Zhong Wang, Zengyou He, Hexin Zhang, and Jing Qin

B1415 "Network embedding for detecting protein complexes in attributed networks"

Xiangmao Meng, Keming Wang, Ju Xiang, and Wenkang Wang

B1416 "Essential protein discovery on weighted PPI networks via statistical information fusion"

Yan Liu, Ye Yuan, Zhong Wang, Zengyou He, Hexin Zhang, Hongwei Wu, and Ya-Dong Wang

B1449 "A Mixed Integer Linear Program for Post-translational Modification Characterization"

Shengzhi Lai, Peize Zhao, Ning Li, and Weichuan Yu

B1456 "MFF-LncLoc: Subcellular Localization Prediction of lncRNAs Based on Multi-Feature Fusion Using Transformers"

Ziyu Fan, Ying Jiang, Shuning Yang, and Lei Deng

B1459 "LSNSCDA: Unraveling CircRNA–Drug Sensitivity via Local Smoothing Graph Neural Network and Credible Negative Samples"

Ziyu Fan, Yuanpeng Zhang, Yahan Li, Zeyu Zhong, and Lei Deng

B1461 "A Heterogeneous Network-based Contrastive Learning Approach for Predicting Drug-Target Interaction"

Junwei Hu, Michael Bewong, Selasi Kwashie, Wen Zhang, Vincent M. Nofong, Guangsheng Wu, and Zaiwen Feng

B1498 "Iterative Glycan Structure Generation by Component Localization and Classification from Mass Spectra"

Defeng Li, Zizheng Nie, Yanmin Liu, Xiaojun Cai, Yong Zhang, and Xuefeng Cui

B1499 "CRISPR-DBA: a deep learning framework for uncertainty quantification of CRISPR off-target activities"

Xinzhe Cao and Peter Minary

B1502 "Prior-guided longitudinal metabolomic analysis"

Kowshika Sarker, Ruoqing Zhu, Hannah Diane Holscher, and ChengXiang Zhai

B1508 "IntNet: A novel framework using reconstructed mutation samples and a biologically informed neural network for pathway analysis"

Li Zhou, Jie Li, and Weilong Tan

B1510 "Heterogeneous network impulsive dynamics for identifying disease-associated genes"

Ju Xiang, Shengkai Chen, Lin-Cong-Hua Wang, Xiangmao Meng, and Min Li

B1566 "Module-level Gene-drug Interaction Identification via Hierarchical Optimal Transport"

Ye Liu, Xiaojie Wang, Hongshan Pu, Jiazhou Chen, and Hongmin Cai

B1780 "KGM4DTI: A Depression Knowledge Graph-Driven Multi-semantic Multi-view Computational Framework for Drug-Target Interaction Prediction"

Xu Tian, Peifu Han, Xue Li, Hongzhen Ding, Wei He, Fengrui Jing, Shuang Wang, Xun Wang, and Tao Song

Short Papers:

B404 "TTCNet: Transformer and Tubular Convolution Feature Attention Network for OCTA vessel segmentation"

Chengzhang Zhu, Zhangzheng Yang, Yalong Xiao, Tao Wu, Beiji Zou, and Haoze Zhou

B694 "DCOAT: Dynamic core-attachment based protein complex detection"

Yaoran Chen, Difu Feng, Yuanyuan Zhu, Guojing Li, Ming Zhong, Tieyun Qian, and Juan Liu

B879 "MuSCaKDE - Multi-Scale modeling of Carbamoylated collagen: Kernel Density Estimation applied from all atom to rigid body simulation"

Zara Msoili, Stéphanie Baud, and Hua Wong

B908 "SiRPipe: a data mining pipeline to improve ab initio prediction of bacterial small RNAs"

Fabio Reinoso Vilca and Fabio Ribeiro Cerqueira

B1102 "scCADE: A Superior Tool for Predicting Perturbation Responses in Single-Cell Gene Expression Using Contrastive Learning and Attention Mechanisms"

Jingfeng Ou, Jiawei Li, Zhiliang Xia, Shurui Dai, Yulian Ding, Yan Guo, Limin Jiang, and Jijun Tang

B1142 "AEG-PPIS: A Dual-Branch Protein-protein Interaction Site Predictor Based on Augmented Graph Attention Network and Equivariant Graph Neural Network"

Huanhuan Dai, Haonan Song, Tongyu Han, Qing Yang, Xiangyu Meng, and Xun Wang

B1158 "MHANDTI: Drug-Target Interaction Prediction Model Based on Heterogeneous Graph Multi-Hop Attention Networks"

Chen Zhang, Jiaqi Sun, Linlin Xing, Longbo Zhang, Hongzhen Cai, and Maozu Guo

B1243 "MMDDI-MGPFF: Multi-Modal Drug Representation Learning with Molecular Graph and Pharmacological Feature Fusion for Drug-Drug Interaction Event Prediction"

Guishen Wang, Zhitong Guo, Guilin You, Ming Xu, Chen Cao, and Xiaowen Hu

B1373 "Q-TetoFormer: A New Gene Regulatory Network Prediction Method Based on Quantum Computing and Transformer"

Hanmo Wang

B1666 "NeDRex-Web: An Interactive Web Tool for Drug Repurposing by Exploring Heterogeneous Molecular Networks"

Andreas Maier, Elisa Anastasi, Olga Zolotareva, James Skelton, Maria Elkjaer, Ana Casas, Cristian Nogales, Harald Schmidt, Tim Kacprowski, David Blumenthal, Anil Wipat, Sepideh Sadegh, and Jan Baumbach

B1768 "Boundary-Guided Learning for Gene Expression Prediction in Spatial Transcriptomics"

Mingcheng Qu, Yuncong Wu, Donglin Di, Anyang Su, Tonghua Su, Yang Song, and Lei Fan

B1790 "Impact of Extracellular Vesicles Derived from Human Placenta Cells on Neural Progenitor Cell Transcriptome Dynamics"

Pallav Singh, Jessica Kinkade, Mohit Verma, Teka Khan, Toshihiko Ezashi, Nathan Bivens, R. Michael Roberts, Cheryl Rosenfeld, and Trupti Joshi

B1810 "Mondrian Abstraction and Language Model Embeddings for Differential Pathway Analysis"

Fuad Al Abir and Jake Chen

B1813 "Inferring Gene Regulatory Network Based on scATAC-seq Data with Gene Perturbation"

Wei Shao, Yuti Liu, Shuang Zhang, Shuang Chen, Qiao Liu, and Wanwen Zeng

B1814 "Improving Genetic Perturbation Responses with A Comprehensive Biological Knowledge Graph"

Yang Li, Rui Chen, Yuting Tan, Xue Zhong, Bingshan Li, and Zhijun Yin

3. Next Generation Sequencing and High-throughput Methods

Regular Papers:

B275 "A Particle Swarm Optimization Algorithm Based on Multi-Population Mutual Learning for SNP-SNP Interaction Detection"

Linqian Zhao, Yahan Li, Junliang Shang, Qianqian Ren, Yuanyuan Zhang, and Jin-Xing Liu

B381 "scGDCC: Graph-based Dual Contrastive Calibration for Single Cell Multi-Omics Clustering"

Huayu Tao, Xinliang Sun, Yuxuan Chen, Min Li, and Ruiqing Zheng

B457 "A Single-Cell Clustering Algorithm Based on Structure Perturbation Non-Negative Matrix Factorization"

Hanjing Jiang, Meineng Wang, Luping Zhang, Yu-An Huang, Yangyuan Li, and Yabing Huang

B487 "SeqCCC: A Sequence-Informed Ligand-Receptor Interaction Prediction Method for Cell-Cell Communication Inference"

Bo-Ya Ji, Hong Xia, De-Bin Qiao, and Shao-Liang Peng

B702 "spGCLF: a versatile deep graph contrastive learning framework for spatial transcriptomics analysis"

Xiang Chen, Junnan Yu, and Min Li

B795 "MRF-XGBLC: Large-scale gene regulatory network inference based on multi-model fusion"

Liang Bai, Liwen Xu, Boya Ji, Shulin Wang, and Shaoliang Peng

B829 "GRNNLink: Predicting gene regulatory links from single-cell RNA-seq data using graph recurrent neural network"

Liang Bai and Shulin Wang

B913 "WFA-vect: a SIMD waveform algorithm for gap-affine pairwise alignment"

Yifei Guo, Tao Tang, Qingzhe Wang, Canqun Yang, Zeyu Xia, Chenchen Peng, Yufei Guo, and Yingbo Cui

B983 "Spatial domains identification based on multi-view contrastive learning in spatial transcriptomics"

Yanru Gao, Feng Li, Fanhao Meng, Daohui Ge, Qianqian Ren, and Junliang Shang

B984 "Integrating Autoencoder and Multi-View Graph Convolutional Networks for Spatial Domains Identification"

Fanhao Meng, Feng Li, Yanru Gao, Daohui Ge, Rong Zhu, and Junliang Shang

B1074 "Multi-Slice Spatial Transcriptomics Data Integration Analysis with STG3Net"

Donghai Fang, Fangfang Zhu, and Wenwen Min

B1075 "Pretrained-Guided Conditional Diffusion Models for Microbiome Data Analysis"

Xinyuan Shi, Fangfang Zhu, and Wenwen Min

B1084 "Masked Graph Autoencoders with Contrastive Augmentation for Spatially Resolved Transcriptomics Data"

Donghai Fang, Fangfang Zhu, Dongting Xie, and Wenwen Min

B1214 "ViPER: Virus-Prokaryote intEraktion prediction using foundation model with hierarchical contrastive learning"

Feng Zhou, Yushuang He, Jiaxing Bai, Yichun Gao, and Ying Wang

B1386 "Integrating Local and Global Information to Decipher Spatial Domains of Spatial Transcriptomics by Attention-based Graph Convolutional Network"

Xuran Dou, Yue Gao, Junliang Shang, Chunhou Zheng, Yinglian Gao, and Jinxing Liu

B1476 "Sparse Attention-based Hierarchical Node Representation for Spatial Domain Identification"

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

B1492 "scDCMAC:adaptive feedback clustering of scRNA-seq data with deep gene correlation mining"

Shanchen Pang, Ruiqian Wang, Wenhao Wu, Hengxiao Li, Jiarui Wu, and Shudong Wang

B1494 "Deep Representation Learning for Electron Ionization Mass Spectra Retrieval"

Shibo Liu, Xuan Zhang, Anlei Jiao, Shiwei Sun, Longyang Dian, and Xuefeng Cui

B1688 "ULTR-asm: assembly of ultra long tandem repeat"

Xiaolin Li, Lianrong Pu, Kuanqiang Tang, Xianzhong Feng, and Daming Zhu

Short Papers:

B336 "Identification of cell-type-specific genes associated with autism by integrating gene expression and alternative polyadenylation profiles"

Xingyu Bi, Liping Kang, and Xiaohui Wu

B413 "Cluster Parallel Quality Score Data Lossless Compression via Sequence Multi-Partitioning and Redundant Encoding"

Hui Sun, Yingfeng Zheng, Huidong Ma, Cheng Zhong, Meng Yan, Gang Wang, and Xiaoguang Liu

B437 "CLPLS: accurate deconvolution of spatial transcriptomic data via contrastive learning and partial least square regression"

Yuanyuan Mo, Juan Liu, and Lihua Zhang

B665 "A Flexible Subspace Parallel Evolutionary Framework for Epistatic Interaction Detection"

Fangting Li, Ying Yin, Yixiao Liu, Xin Wang, Changyong Yu, and Yuhai Zhao

B668 "GPU-Powered Evolutionary Auxiliary Multitasking for Fast SNP Interaction Detection"

Fangting Li, Ying Yin, Yixiao Liu, Xin Wang, Changyong Yu, and Yuhai Zhao

B728 "Multi-Population Ant Colony Optimization With Knowledge-Based Local Searches for Epistasis Detection"

Qianqian Ren, Shaoyi Liu, Lianlian Zhang, Junliang Shang, and Feng Li

B809 "KAS-former : a transformer-based model for predicting histone modifications using KAS-seq"

Lijuan Jia, Wen Wen, Zhaoxi Zhang, Jiaxin Zhong, Xiaoya Fan, Zengyou He, Ruitu Lyu, and Zhong Wang

B1020 "Thioproline Modulates Gut Microbiota to Resist Colorectal Cancer"

Jingjing Liu, Yixuan Wang, Jian Zhao, Quan Wang, Haiqing Si, and Xiaofeng Song

B1047 "scKADE: Single-Cell Multi-Omics Integration with Kolmogorov-Arnold Deep Embedding"

Shanchen Pang, Jiarui Wu, Wenhao Wu, Hengxiao Li, Ruiqian Wang, Yulin Zhang, and Shudong Wang

B1055 "Masked adversarial neural network for cell type deconvolution in spatial transcriptomics"

Lin Huang, Xiaofei Liu, shunfang wang, and Wenwen Min

B1197 "Comprehensive evaluation of haplotype phasing tools with different strategies across diverse sequence technologies"

Zhongbo Yang, Zhenhao Lu, Xin Li, Tao Jiang, Yadong Wang, and Yadong liu

B1289 "MATL: A deep neural network using multi-scale convolutions and transformer for transcription factor binding site prediction"

jinli fan, ruyi shen, xiaodi huang, and Yanju Zhang

B1530 "DeePSP-GIN: identification and classification of phage structural proteins using predicted protein structure, pretrained protein language model, and graph isomorphism network"

Muhit Islam Emon, Badhan Das, Ashrith Reddy Thukkaraju, and Liqing Zhang

B1711 "Deconvolution of spatial transcriptomics data based on multi-head dynamic GAT and optimal transport"

Yuqi Chen, Feng Yang, Peng Jiang, Yuan Wang, Qiang Zhang, and Juan Liu

B1732 "iTARGET: Interpretable Tailored Age Regression for Grouped Epigenetic Traits"

Zipeng Wu, Daniel Herring, Fabian Spill, and James Andrews

B1771 "m6A peak calling accounting for varying sequencing bias across regions and samples"

Lanyu Zhang, Zhenxing Guo, Zhaojun Qin, and Zhijin Wu

B1775 "Target-oriented Reference Construction for supervised cell type identification in scRNA-seq"

Xin Wei, Wenjing Ma, Zhijin Wu, and Hao Wu

4. Cheminformatics and pharmacogenomics

Regular Papers:

B216 "Subgraph-based Self-Supervised Learning Framework for Enzymatic Reaction Feasibility Prediction"

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

B372 "MambaDTA: a novel Drug-Target Affinities prediction method with State-Space Model"

Dayan Liu, Tao Song, and Shudong Wang

B421 "Interpretable Multi-domain Awareness Scheme for Drug-target Interaction Prediction"

Xiaoqing Lian, Jie Zhu, Tianxu Lv, and Xiang Pan

B471 "DiffSim: Aligning Diffusion Model and Molecular Dynamics Simulation for Blind Docking"

Yanlin Fei, Yurui Li, Zhiling Zhou, and Haohan Wang

B524 "Application of Static Virus Spread Algorithm in Base-Balanced DNA Fragment Optimization"

Yao Yao, Yanfen Zheng, Xun Zhang, Xin Liu, Xiaokang Zhang, Bin Wang, and Qiang Zhang

B531 "Adaptive Drug Repositioning Prediction"

Zhenpeng Wu, Jiamin Chen, and Jianliang Gao

B586 "Diff4VS: HIV-inhibiting Molecules Generation with Classifier Guidance Diffusion for Virtual Screening"

Jiaqing Lyu, Changjie Chen, Bing Liang, and Yijia Zhang

B603 "MulMol: Transformer-based Multi-Task Molecular Representation Learning"

Dengdeng Huang and Shikui Tu

B626 "Molecular Property Prediction by Contrastive Learning from Joint-Aggregator Neural Network"

Zhihui Yang, Feng Yang, and Juan Liu

B992 "Novelty Encouraged Beam Clustering Search for Multi-Objective De Novo Diverse Drug Design"

Dengwei Zhao, Shikui Tu, and Lei Xu

B1062 "DPAGCN: Predicting Microbe-Drug Associations based on Dual Attention Graph Convolution"

Peng Wang, Xiangqiong Wu, Wen Li, Jiaxin Chu, and Nan Hu

B1070 "MFCM-DTI model of multimodal feature fusion: prediction of drug-target interaction"

WENJUN LI, Wanjun Ma, Mengyun Yang, and Xiwei Tang

B1245 "CSCL-DTI: predicting drug-target interaction through cross-view and self-supervised contrastive learning"

Xuan Lin, Xi Zhang, Zu-Guo Yu, Yahui Long, Xiangxiang Zeng, and Philip S Yu

B1299 "PretrainedBA: Enhancing Compound-Protein Binding Affinity Prediction Accuracy via Pre-training Large-Scale Interaction Information"

Sangmin Seo, Seungyeon Choi, Hwanhee Kim, and Sanghyun Park

B1302 "HGTRDA: Enhancing Prediction of ncRNA-Mediated Drug Resistance with Hypergraph Transformer"

Che Zhang, Ruohui He, Yanhao Fan, Xiaowen Hu, Yurong Qian, and Lei Deng

B1364 "Multi-Task Dual-view Model for Drug Combination Analysis: In Vivo and In Vitro Perspectives"

Yuhe YANG, Zhaoyue ZHANG, Xueqin XIE, Wei Su, Kejun Deng, and Hao Lin

B1388 "MLFF-DTA: A Multi-Level Feature Fusion Method for Predicting Drug-Target Binding Affinity"

Jiao Wang, Ge Kong, and Juan Wang

B1493 "Revolutionizing Enzyme Turnover Predictions with Non-Binary Reaction Fingerprints and AI"

Jibin Cheng, Cheng Chen, Guishan Cui, Haitao Jiang, and Xuefeng Cui

B1506 "How to Train Your Neural Network for Molecular Structure Generation from Mass Spectra?"

Kai Zhao, Yanmin Liu, Longyang Dian, Shiwei Sun, and Xuefeng Cui

B1521 "Causal Invariant Hierarchical Molecular Representation for Out-of-distribution Molecular Property Prediction"

Xinlong Wen, Yifei Guo, Shuoying Wei, Wenhan Long, Lida Zhu, and Rongbo Zhu

B1528 "Semi-Template Retrosynthesis Prediction with 3D Spatial Structures and Reaction Center Disconnection Rules"

Xin Li, Zishuai Wei, Shuang Wang, Peifu Han, Xue Li, and Tao Song

B1543 "Mamba-DTA: Drug-Target Binding Affinity Prediction with State Space Model"

Yulong Wu, Jin Xie, Jing Nie, Xiaohong Zhang, and Yuansong Zeng

B1664 "Advancing Flexible Docking of P450-Heme Complexes via JAX MD"

Rongxu Guo, Cheng Chen, Jiaheng Sang, Guishan Cui, Fa Zhang, Xuefeng Cui, and Shengying Li

B1870 "AffinityLM: Binding-Site Informed Multitask Language Model for Drug-Target Affinity Prediction"

Tyler Rose, Charlotte Zhou, and Nicolo Monti

Short Papers:

B277 "MolCLW: Molecular Contrastive Learning With Learnable Weighted Substructures"

Jiahe Li, Wenjie Du, and Yang Wang

B350 "APK-MRL: An Adaptive Pre-training Framework with Knowledge-enhanced for Molecular Representation Learning"

Xu Gong, Qun Liu, Rui Han, Li Liu, Yike Guo, and Guoyin Wang

B990 "Unveiling HDAC8 antagonists for breast cancer therapy via molecular modeling"

Vaishali Pankaj, Inderjeet Bhogal, and Sudeep Roy

B1129 "Cycle-Configuration: A Novel Graph-theoretic Descriptor Set for Molecular Inference"

Bowen Song, Jianshen Zhu, Naveed Azam, Kazuya Haraguchi, Liang Zhao, and Tatsuya Akutsu

B1145 "A Multi Target Drug Design Method Based on Target Protein Sequence and Feature Similarity"

Haoran Liu, Xiaoli Lin, Jing Hu, and Xiaolong Zhang

B1178 "Dual Interaction and Kernel-Diverse Network for Accurate Drug-Target Binding Affinity Prediction"

Yulong Wu, Jin Xie, Jing Nie, Jian Hu, and Yuansong Zeng

B1290 "MBC-DTA: A Multi-Scale Bilinear Attention with Contrastive Learning Framework for Drug-Target Binding Affinity Prediction"

Huiting Li, Weiyu Zhang, Yong Shang, and Wenpeng Lu

B1417 "Exploring Latent Space for Generating Peptide Analogs Using Protein Language Models"

Po-Yu Liang, Xuetong Huang, Tibo Duran, Andrew Wiemer, and Jun Bai

B1623 "LEMTL: Enhancing the pharmacokinetic predictions of multitask learning with existing pharmacokinetics"

Ying Li, Xiao Deng, Jingsong Lv, Hongyang Chen, and Yao Yang

B1833 "PARank: Pocket-based Drug-target Affinity Ranking with Heterogeneous GNN"

Bin Feng, Zijing Liu, Jiying Zhang, Yu Li, and Lei Zhang

5. Cross-Cutting Computational Methods and Bioinformatics of Disease

Regular Papers:

B238 "MVLncStack: A novel method for lncRNA subcellular localization prediction based on multi-view features"

Ziqi Liu, Tao Bai, Dongdong Jiang, Bin Liu, and Liang Yu

B239 "MTSCL: protein subcellular localization prediction using multi-task learning"

Liang Yu, Xiang Wu, Yan Li, Zhaoyang Huang, and Ziqi Liu

B260 "DeepTAP-E: Enhancing Systemic Lupus Erythematosus Diagnosis with Deep Learning Based on TCR β CDR3 Sequences"

Tongfei Shen, Miaoze Huo, Wan Nie, Kaiqi Li, Ziwei Ma, Xikang Feng, and Shuai Cheng Li

B267 "Identification of disease-related genetic variants and imaging factors leveraging summary statistics"

Duo Xi, Dingnan Cui, Minjianan Zhang, Jin Zhang, Muheng Shang, Lei Guo, Lei Du, and Junwei Han

B276 "Bimodality Approach to Mental Disorder Diagnosis via Dual-pathway Fusion Perceptual Network"

Ruipeng Xu, Shuoqiu Gan, Feng Zhao, Zhentao Zuo, and Tiangang Zhou

B290 "GCLM-CDR: a graph contrastive learning method with multi-omics for cancer drug response prediction"

Zeyu Yao and Qingchen Zhang

B331 "Cross-Data Multilevel Attention for Depression Detection: Analyzing the Interplay Between Read and Spontaneous Speech"

Fuxiang Tao, Xuri Ge, Wei Ma, Anna Esposito, and Alessandro Vinciarelli

B347 "A Self-Attention Synthesizing Model with Privacy-Preserving(ACCT-GAN) for Medical Tabular Data"

Huamei Qi, Wenqin Zou, Sen Fu, and Lei Deng

B378 "Few-shot Biomedical NER via Multi-task Learning and More Fine-grained Grid-tagging Strategy"

Wenxuan Mu, Di Zhao, Jiana Meng, Shuang Liu, and Hongfei Lin

B383 "DMNER: Biomedical Named Entity Recognition by Detection and Matching"

Junyi Bian, Rongze Jiang, Weiqi Zhai, Tianyang Huang, Xiaodi Huang, Zhou Hong, and Shanfeng Zhu

B411 "Multimodal Contrastive Learning for Protein–Protein Interaction Inhibitor Prediction"

Zitong Zhang, Zhixian Wang, Lingling Zhao, Junjie Wang, and Chunyu Wang

B414 "Multi-source Data-driven Drug Repositioning based on Deep Self-attention Network"

Bin Chen, Qiu Xiao, Zhusuo Huang, Tuo Xiong, Yide Yang, and JianCheng Zhong

B419 "IPM: Information Lossless Pre-training Strategy for Molecular Property Prediction"

Ruomei Liu, Shangzhe Li, He Zhu, Yue Hou, Xingyu Peng, Haitao Yuan, Junran Wu, and Ke Xu

B426 "DGPDHGCN: A Heterogeneous Graph Convolutional Network Method for Predicting Drug-Disease Associations"

Haoran Zhu, Tong Yu, Ling Ge, and Jianjia Wang

B439 "DeepCRC: Precision Colorectal Cancer Diagnosis Using Deep Learning and Metagenomic Biomarkers"

Han Wang, Yunhe Li, Yannuo Feng, Kexin Shen, Chang Lu, and Zhongshi Xie

B489 "Enhancing miRNA-Disease Prediction with Attention-Based Multi-View Contrastive Learning"

Tianxiang Ouyang, Zhijian Huang, and Lei Deng

B492 "SAMamba: Integrating State Space Model for Enhanced Multi-modal Survival Analysis"

Wei Zhang, TONG CHEN, Wenxin Xu, and Xinyue Li

B495 "FreAML: A Frequency-Domain Adaptive Meta-Learning Framework for EEG-Based Emotion Recognition"

Lei Wang, JianPing Zhu, Le Du, Bo Jin, and XiaoPeng Wei

B537 "Curriculum Learning for Self-Iterative Semi-Supervised Medical Image Segmentation"

Jiayu Zhang, Dexuan Xu, Yanyuan Chen, Yiwei Lou, and Yue Huang

B540 "Emotion Recognition from Eye Movements Using Multi-way Autoregressive Model"

Tian-Fang Ma, Xuan-Hao Liu, Wei-Long Zheng, and Bao-Liang Lu

B543 "EELMCDA: Combining evolutionary ensemble learning with matrix feature decomposition for predicting circRNA-disease associations"

Zheng Wang, Lei1 Wang, Zhu-Hong You, Lei Wang, Yang Li, and Zhenyu Wang

B591 "Learning Interpretable and Robust Spatiotemporal Dynamics from fMRI for Precise Identification of Neurological Disorders"

Youhao Li, Yongzhi Huang, Qingchen Gao, Pindong Chen, Yong Liu, and Liyun Tu

B595 "Joint Super-Resolution and Modality Translation Network for Multi-Contrast Arbitrary-Scale Isotropic MRI Reconstruction"

Kai Pan, Li Lin, Pujin Cheng, Junyan Lyu, and Xiaoying Tang

B605 "Robust One-Shot Brain Tissue Segmentation via Patchwise Contrastive Learning and Dual-Head Variational Autoencoder"

Feng Zhou, Fengjun Xi, Yanjie Zhou, Di Hu, Liyun Tu, and Yun Peng

B628 "Let Video Teaches You More: Video-to-Image Knowledge Distillation using DEtection TRansformer for Medical Video Lesion Detection"

Yuncheng Jiang, Zixun Zhang, Jun Wei, Chunmei Feng, Guanbin Li, Xiang Wan, Shuguang Cui, and Zhen Li

B641 "Pathway Activity Autoencoders for Enhanced Omics Analysis and Clinical Interpretability"

Pedro Henrique da Costa Avelar, Le Ou-Yang, Min Wu, and Sophia Tsoka

B689 "DDTExplainer: Mining Drug-Disease Therapeutic Mechanisms based on GNN Explainability"

Yidan Zhang, Lei Duan, Huiru Zheng, and Haiying Wang

B690 "CellFeature: Cell and Feature Co-Embedding from Single-Cell Multi-Omics with Heterogeneous Graph Model"

Enling Li, Lin Gao, and Yusen Ye

B700 "A Hybrid Algorithm based on Autoencoder and Text Convolutional Network for Integrating scATAC-seq and scRNA-seq Data"

Xiaoshu Zhu, Jiahui Liu, Wei Lan, and Fei Teng

B705 "Biomedical Document-level Relation Extraction with Coreference and Anaphor Graphs"

Jiru Li, Yuanyuan Sun, Zhihao Yang, Ling Luo, Lei Wang, Wei Liu, Yin Zhang, Bo Xu, Jian Wang, Yumeng Yang, Zhehuan Zhao, and Hongfei Lin

B812 "The identification of cancer stage-related driving factors based on network smoothing and gravity model"

Bolin Chen, Jinlei Zhang, Yourui Han, Bian Jun, and Xuequn Shang

B825 "MuST: Maximizing the Latent Capacity of Spatial Transcriptomics Data with Multi-modality Structure Transformation"

Zelin Zang, Liangyu Li, Yongjie Xu, Jiahao Li, Chenrui Duan, Yi Sun, Zhen Lei, and Stan Z. Li

B850 "MiRGraph: A hybrid deep learning approach to identify microRNA-target interactions by integrating heterogeneous regulatory network and genomic sequences"

Pei Liu, Ying Liu, Jiawei Luo, and Yue Li

B852 "Multi-view Feature Fusion and Contrastive Learning for Microbe-disease Association Prediction"

Qianshi Yuan, Sheng Tian, Changpeng Xiang, and Xiaomei Wei

B882 "GeomCLIP: Contrastive Geometry-Text Pre-training for Molecules"

Teng Xiao, Chao Cui, HuaiSheng Zhu, and Vasant G. Honavar

B916 "Modeling Implicit Emotion and User-specific Context for Malevolence Detection in Mental Health Counseling Dialogues"

Bo Xu, Xuening Qiao, Xiaokun Zhang, Jiahui Wan, Xinyue Liu, Linlin Zong, and Hongfei Lin

B932 "Identifying brain disease genes via integrating brain imaging and molecular network"

Wei Wang, Yuxian Wang, and Jiajie Peng

B976 "Fully-Automated Patient-Agnostic Diabetes Management with Deep Reinforcement Learning"

Thomas Milton and Robert Lieck

B991 "DP-BERT: a pre-trained deep language model for depression prediction using microarray data"

Junyu Gao, Min Zeng, Yiming Li, Fang Wang, Ruiqing Zheng, Jin Liu, Fei Guo, and Min Li

B999 "TranSVPPath: A TabTransformer-Based Model for Predicting the Pathogenicity of Structural Variants"

Yaning Yang, Jiawei Wang, Xiaoqi Wang, Liwen Xu, Liangrui Pan, and Shaoliang Peng

B1043 "Chiral Molecular Graph Encoder for Medication Recommendation"

Haifeng Liu, Nan Zhao, Junsheng Zhou, and Weiguang Qu

B1087 "scASDC: Attention Enhanced Structural Deep Clustering for Single-cell RNA-seq Data"

Wenwen Min, Zhen Wang, Fangfang Zhu, Taosheng Xu, Guangsheng Wu, and shunfang wang

B1095 "FAQNet: Frequency-Aware Quaternion Network for Endoscopic Highlight Removal"

Dingzhou Zhu, Guoheng Huang, Xiaochen Yuan, Xuhang Chen, Guo Zhong, Chi-Man Pun, and Jie Deng

B1096 "Uncertainty Guided Incremental Interactive Medical Image Segmentation with Sparse Variational Gaussian Process"

Zhen Pan, Huili Zhang, Minquan Jin, Maoling Qin, and Wenhui Huang

B1107 "Cell-Specific Highly Correlated Network for Self-Supervised Distillation in Cell Type Annotation"

Tianhao Li, Yugui Xu, Sihan He, Yuhang Liu, Zixuan Wang, Zhigan Zhou, Yongqing Zhang, and Quan Zou

B1109 "SMMGCL: a novel multi-level graph contrastive learning framework for integrating spatial multi-omics data"

Bo Wang, Wei Liu, Jiawei Luo, Xiangtao Chen, and Chee Keong Kwoh

B1111 "TMGE: a multi-view graph embedding model for prediction task of genes associated with neurodegenerative diseases"

Yuanxiang Jiang, Mingjing Han, Yanbin Yin, and Han Zhang

B1144 "MD-Dose: A diffusion model based on the Mamba for radiation dose prediction"

Linjie Fu, Xia Li, Xiuding Cai, Xueyao Wang, Yali Shen, and Yu Yao

B1152 "Cross-Guided Attention and Combined Loss for Optimizing Gastrointestinal Visual Question Answering"

Qian Yang, Lijun Liu, Xiaobing Yang, Li Liu, and Wei Peng

B1154 "CEUS-SAM Cross-Modal Prompt-Based SAM Network for Breast CEUS Image Segmentation"

Xutao Li, Min Xu, Ximiao Zhang, Sihua Niu, Jiaan Zhu, and Xiuzhuang Zhou

B1164 "Predicting CircRNA-Disease Associations Through Non-negative Matrix Factorization and Adversarially Regularized Variational Graph Autoencoder"

Mianshuo Lu, Lei Wang, Jinzhu Sun, Yang Li, Mengmeng Wei, Yu Wei, Changchun Liu, and Zhengwei Li

B1165 "Drug-Drug Interaction Prediction Based on Probability Transfer Multi-modal Feature Representation Learning"

Yu Wei, Lei Wang, Chang-Qin Yu, Shuo Yang, Meng-Meng Wei, and Zhu-Hong You

B1166 "Utilizing Genetic Feature Augmentation and CAM Consistency for Enhanced Classification of Imbalanced Skin Lesion Data"

Shuyi Lu, Xiaojie Wang, and Yuanfeng Zhou

B1179 "Predicting the relapse of Budd-Chiari syndrome with optimized multiple kernel extreme learning machine: interpretable machine learning approach"

Shengli Li, Weirong Xue, Yan Li, Cuocuo Wang, Xiangting Liu, Hui Wang, Maocheng Zu, Qingqiao Zhang, Yingliang Jin, Lei Wang, and Yong Zhou

B1182 "Augmented Mycobiome-Based Cancer Detection by an Interpretable Large Model"

dongmei He, Xin Yang, Buchao Zhan, Zilong Zhang, Qingchen Zhang, and Shankai Yan

B1190 "Dual-Branch Contrast Enhancement for Drug Repositioning"

Haifeng Liu, Qiuyu Long, and Nan Zhao

B1202 "Rethinking Logical Reasoning Design for Document-level Biomedical Relation Extraction"

Fengyu Zhang, Jianyuan Yuan, Yimeng Qiu, Hongfei Lin, and Yijia Zhang

B1239 "Multi-Task Driven Multi-Level Dynamical Fusion for Single-Cell Multi-Omics Cell Type Annotation"

Jiawei Li, Shizhan Chen, Zongbo Han, Wei Li, Jijun Tang, and Fei Guo

B1247 "AMPpred-DLFF:prediction of AMPs based on deep learning and multi-view features fusion"

Yu Chen, Xingpeng Jiang, and Weizhong Zhao

B1248 "Interpretable deep learning quantifies the impact of genomic variations on CD8+ T cell infiltration"

Yi He, Liwen Xu, and Shaoliang Peng

B1253 "Generating Personalized Imputations for Patient Health Status Prediction in Electronic Health Records"

Yang Liu, Weiyu Zhang, Jiasheng Si, Zhao Li, Xueping Peng, and Wenpeng Lu

B1304 "Deformation Correction in Laparoscopic Liver Surgical Navigation Using Point Cloud Completion and Biomechanical Model"

Qian Zhang, Deqiang Xiao, Danni Ai, Jingfan Fan, Tianyu Fu, Shuo Yang, Hong Song, and Jian Yang

B1310 "Dual-Stream Heterogeneous Graph Neural Network Based on Zero-Shot Embeddings for Predicting miRNA-Drug Sensitivity"

Li Peng, Wang Wang, Cheng Yang, Wenhui Xiao, Xiangzheng Fu, and Yifan Chen

B1320 "Learning from Inside: Self-driven Intra-modality Siamese Knowledge Generation and Inter-modality Alignment for Chest X-rays Vision-Language Pre-training"

Lihong Qiao, Long Cheng, Yucheng Shu, Xiao Luan, and Bin Xiao

B1344 "CIRCLE: scRNA-seq Data Clustering by Cluster-aware Iterative Contrastive Learning"

Jinxian Wang, Weikang Jiang, Jihong Guan, and Shuigeng Zhou

B1384 "Patch Target Guided Dual-Branch Deep Multiple Instance Learning for 3D MRI Analysis"

Mingzhe Dai, Xiaoshuang Shi, Xiaofeng Zhu, Tingrui Pan, and Kang Li

B1430 "Improving Deep Learning Model for Drug Synergy Prediction via Topological Features"

Yang Xiong, Zheng Zhang, and Xian-gan Chen

B1463 "Document Embeddings Enhance Biomedical Retrieval-Augmented Generation"

Yongle Kong, Zhihao Yang, Ling Luo, Zeyuan Ding, Lei Wang, Wei Liu, Yin Zhang, Bo Xu, Jian Wang, Yuanyuan Sun, Zhehuan Zhao, and Hongfei Lin

B1482 "Concept-based Biomedical Text Expansion via Large Language Models"

Chenlian Zhou, Xinhui Tu, Tingting He, Weizhong Zhao, Cong Guo, Rui Fan, and Yinghao Xiong

B1489 "MetaGXplore: Integrating Multi-Omics Data with Graph Convolutional Networks for Pan-cancer Patient Metastasis Identification"

Tao Jiang, Haiyang Jiang, Xinyi Ma, Minghao Xu, Yan Liang, and Wentao Zhang

B1495 "Enhanced Protein-Ligand Affinity Prediction with Conditional Updating and Proximity Embedding"

Shuai Cui, Xuan Zhang, Zizheng Nie, Haitao Jiang, Guishan Cui, and Xuefeng Cui

B1496 "How to Integrate Non-Sequence Features for Peptide Collision Cross Section Prediction with Deep Learning?"

Zhimeng Tian, Zizheng Nie, Yong Zhang, Daming Zhu, and Xuefeng Cui

B1531 "Disentangling Disease-sensitive Multimodal Neuroimaging Phenotypes and Related Genetic Factors: A Multimodal Study of ADNI Cohort"

Jin Zhang, Minjianan Zhang, Lei Guo, Daoqiang Zhang, and Lei Du

B1579 "CM-HTNet: CNN-Mamba-based Framework for Predicting Hemorrhagic Transformation Risk of AIS Patients using Sequence Relationship Modeling and Multi-Modal Cross Attention"

Yuxiang Huang, Huanhuan Ren, Yongmei Li, Jingfeng Jiang, Haodong Xu, Jinwang Feng, and Shaoguo Cui

B1580 "An Improved Method for Phenotype Concept Recognition Using Rich HPO Information"

Jiewei Qi, Ling Luo, Zhihao Yang, Jian Wang, Huiwei Zhou, and Hongfei Lin

B1600 "Prediction of miRNA-Disease Associations Based on Hybrid Gated GNN and Multi-Data Integration"

Yeqiang Wang, Sharen Yun, Yuchen Zhang, and Xiujuan Lei

B1629 "MinimapPool: an improved flexible and efficient parallel algorithm based on minimap2"

Zhenang Wang, Yingbo Cui, Jiandong Shang, Kun Ran, Jianan Li, and Shaoliang Peng

B1635 "Effective In-Context Learning for Named Entity Recognition"

Jin Zhao, Qian Guo, Jiaqing Liang, Zhixu Li, and Yanghua Xiao

B1694 "PEGCN: A Single-Cell Type Annotation model based on GCN with Pseudo Labels and Ensemble Learning"

Chi Zhu, Fengcui Qian, Yongbin Liu, Ying Yu, Chunquan Li, and Chunping Ouyang

B1722 "Drug Combination Side Effect Prediction Based on Polypharmacy Network and GraphSAGE Algorithm"

Haiqiang Xiao, Xiujuan Lei, Yuchen Zhang, and Fang-Xiang Wu

B1734 "Interpretable Drug Response Prediction through Molecule Structure-aware and Knowledge-Guided Visible Neural Network"

Jiancong Xie, Zhe Zhang, Youyou Li, Jiahua Rao, and Yuedong Yang

B1757 "Towards Cross-Modal Text-Molecule Retrieval with Better Modality Alignment"

Jia Song, Wanru Zhuang, Yujie Lin, Liang Zhang, Chunyan Li, Jinsong Su, Song He, and Xiaochen Bo

B1871 "Predicting Protein-ligand Binding Affinity via Molecular Mechanics-guided Graph Aggregation"

Xing Lv, Weizhong Zhao, Xinhui Tu, and Tingting He

B1877 "ParaSAT: a scalable parallel framework for sequence alignment"

Wenjuan Liu, Jianbang Xu, Kun Ran, and Shaoliang Peng

B1880 "Selecting interpretable features for cancer subtyping on multi-omics data"

Tianyi Shi, Xiucai Ye, Dong Huang, and Tetsuya Sakurai

Short Papers:

B248 "EMoNet: An environment causal learning for molecule OOD generalization"

Limin Li, Kuo Yang, Wenjie Du, Zhongchao Yi, Zhengyang Zhou, and Yang Wang

B283 "A multi-objective genetic algorithm based on neighborhood coevolution for community detection"

Mingyuan Bi, Junliang Shang, Xiaotong Kong, Feng Li, Yuanyuan Zhang, and Jin-Xing Liu

B308 "Single-cell Curriculum Learning-based Deep Graph Embedding Clustering"

Huifa Li, Jie Fu, Xinpeng Ling, Zhiyu Sun, Kuncan Wang, and Zhili Chen

B316 "MMFNet: A Multi-modal and Multi-attention Fusion Network for Multi-task Skin Disease Classification"

Xinlei Zhu, Pengjiang Qian, Chuang Wang, Li Liu, Ming Gao, Weiwei Cai, and Eddie Yin-Kwee Ng

B368 "GT-KGCN: Gene Essentiality Prediction with Graph Transformer and Kolmogorov-Arnold Network"

Rukai Liu, Bing Jia, Baoqi Huang, Winston K.G. Seah, Fei Hao, and Dongjun Liu

B375 "Learning Frequency Adaptation for Cross-domain Medical Image Segmentation"

Xiaoming Wang, Lei Liu, Xiangdong Su, Yuhan Yang, and Guanglai Gao

B386 "Tri-VQA: Triangular Reasoning Medical Visual Question Answering for Multi-Attribute Analysis"

Lin Fan, Xun Gong, Cenyang Zheng, and Yafei Ou

B388 "Not Just Single Reasoning! A Hierarchical Network for Document-level Biomedical Relation Extraction with Multi-Granularity Learning"

Fengyu Zhang, Jianyuan Yuan, Yimeng Qiu, Hongfei Lin, and Yijia Zhang

B391 "Fuzzy Knowledge Distillation Model for Incomplete Multi-modality Data and Its Application to Brain Network Analysis"

Xiaoyu Qi, Jiashuang Huang, Xueyun Cheng, Mingliang Wang, and Weiping Ding

B395 "SACNet: A Spatially Adaptive Convolution Network for 2D Multi-organ Medical Segmentation"

Lin Zhang, Wenbo Gao, Jie Yi, and Yunyun Yang

B396 "MRI Super-Resolution via Hybrid Information Enhancement Network based on Multi-Attention and Adaptive Convolution"

Jixin Ma, Hongjian Yu, Zhijiang Du, Xin Hua, Zibo Li, and Hui Zhao

B412 "A Novel Co-evolutionary Particle Swarm Optimization Method for Biomarker Selection and Disease Classification"

Tao Li, Shunxi Zhang, Haoyue Ma, Jianyu Li, and Jiucheng Xu

B430 "ConsolMatch: Data Fusion and Knowledge Distillation with Data Distribution Gap Minimization"

Yuhan Chen, Chunshi Wang, and Bin Zhao

B456 "EGATCMI: A multi-feature fusion model based on graph attention network and discriminator to predict circRNA-miRNA interactions"

Meng-Meng Wei, Lei Wang, Zhu-Hong You, Zheng-Wei Li, Xiao-Rui Su, Yang Li, Shuo Yang, and Wan-Xian He

B474 "Identification of Biomarkers for Diagnosis of Pediatric Ependymomas by Bioinformatics Analysis and Machine Learning"

Lan Huang, Yanli Qu, Dan Shao, Guangzhao Zhang, and Yucong Xiong

B496 "4D-CAT: Synthesis of 4D Coronary Artery Trees from Systole and Diastole"

Daosong Hu, Ruomeng Wang, Liang Zhao, Mingyue Cui, Song Ding, and Kai Huang

B506 "Fusion Side Tuning: A Parameter and Memory Efficient Fine-tuning Method for High-resolution Medical Image Classification"

Zhangchi Wang, Yijin Huang, Yidu Wu, Pujin Cheng, Li Lin, Qinghai Guo, and Xiaoying Tang

B541 "A large language model for predicting T cell receptor-antigen binding specificity"

Xing Fang, Chenpeng Yu, Shiye Tian, and Hui Liu

B546 "DL2G: Anatomical Landmark Detection with Deep Local Features and Geometric Global Constraint"

Rui Wang, Wanli Yang, Kuntao Xiao, Yi Sun, Shurong Sheng, Zhao Lv, and Jiahong Gao

B554 "A skull-face translation network used for generating faces from skulls"

Xiaoning Liu, Jie Wang, Dongcheng Tuo, Jiaqi Jiang, Zenglei Liang, and Wenkai Jiang

B602 "A Graph Embedded Feature Decoupling Model for Clustering Single Cell RNA-seq Data"

Xiaoming Yan, Liyang Xu, Haoang Chi, Huihui Yang, Huan Chen, and Yuhua Tang

B612 "What's the data say? An LLM-based system for interrogating experimental data"

Douglas Craig and Sorin Draghici

B708 "Segmentation Foundation Model-Aided Medical Image Segmentation"

Shiqi Hua, Dunbo Ning, Wei Xie, and Hao Sun

B720 "Reinforcement Learning for Enhancing Classifier Performance"

AHMAD CHADDAD, Yuchen Jiang, and Jianjie Ou

B741 "KLDD: Kalman Filter based Linear Deformable Diffusion Model in Retinal Image Segmentation"

Zhihao Zhao, Yinzhen Zhao, Junjie Yang, Kai Huang, Nassir Navab, and M.Ali Nasseri

B750 "CA-SAM: Enhancing the Segment Anything Model in Medical with Bi-Group Clicks Guidance and Lightweight Adapter"

Yiru Huo, Yichen Shi, Jun Feng, Zhuofu Tao, Zhen Huang, Liu Yang, Na Liu, Lei He, and S.Kevin Zhou

B755 "Improving TCM Prescription Recommendation with Diffusion and Asymmetric Loss"

Lei Ye, Shanjie Ma, and Jianhua Li

B760 "FedPAB: Federated Medical Image Segmentation with Personalized Attention and Boundary-oriented Learning"

Xinyv Li, Cen Chen, and Jamie Cui

B766 "DCUI-MGraphDTA: Enabling Efficient Inference of a Drug-Target Binding Affinity Prediction Model on DCUs"

Tao Song, Siyu Zhang, Xiangyu Meng, Zeyang Zhu, Xianxi Zhu, and Xun Wang

B796 "Analysis of the Discriminability of Three Types of CMR Image Features for Cardiomyopathy"

Shifeng Zhao, Yanyang Li, Yun Tian, Xiaoxuan Zhang, Jinxiao Xiao, and LianMing Wu

B798 "Exploring the Neural Dynamics in Temporal Lobe Epilepsy: A Study using Transformer and Hidden Markov Models"

Wenhai Jiang, Zhiguo Lin, Kaixuan Wang, Shihang Ding, Chunying Fang, Hongjian Bo, Cong Xu, Shengkun Yu, Tianyu Wang, Yifei Gu, Tiejun Zhao, and Haifeng Li

B816 "Bootstrapping Radiography Pre-training via Siamese Masked Vision-Language Modeling with Complementary Self-distillation"

Wenqiang LI, Luyang Luo, and Hao Chen

B872 "SE-DCFN: Semantic-Enhanced Dual Cross-modal Fusion Network for Depression Recognition"

Long Hu, Qingyi Yang, Rui Wang, Yixue Hao, Yijun Mo, and Min Chen

B880 "E/I Balanced Adaptive Sequential Neural Posterior Estimation for Inferring the Connection Weights in Mouse V1 Model"

Luntian Mou, Peize Li, Wenjie Chen, Lei Ma, and Tiejun Huang

B892 "Comprehensive metapath-based heterogeneous graph transformer for gene-disease association prediction"

Wentao Cui, shoubo li, Chen Fang, Qingqing Long, Chengrui Wang, Xuezhi Wang, and Yuanchun Zhou

B915 "Fast and scalable off-target assessment for CRISPR guide RNAs using partial matches"

Carl Schmitz, Jacob Bradford, Robert Salomone, and Dimitri Perrin

B921 "Low-confidence Heterogeneous Pixel-Prototype Contrastive Learning for Semi-supervised Medical Image Segmentation"

Shihuan He, Zhihui Lai, and Heng Kong

B923 "SegPath-YOLO: A High-Speed, High-Accuracy Pathology Image Segmentation and Tumor Microenvironment Feature Extraction Tool"

Jia Yao, Ruichen Rong, Tao Wang, and Guanghua Xiao

B940 "Enhancing Atlas Construction via Edge-Assisted 3D Latent Diffusion Models for Brain MRI Generation"

Sheng Xu and Yi Hong

B966 "Robust 3D reconstruction and cell-type deconvolution approach for spatial transcriptomics by hybrid graph learning and iterative computation"

Zhengqian Zhang, Binghong Chen, Jialiang Wang, Haiyu Wang, Tianshuo Yu, Junjun Ren, Mingtao Zhang, Chongyang Liu, Wei Jiang, and Yongzhuang Liu

B988 "GeneSUM: Large Language Model-based Gene Summary Extraction"

Zhijian Chen, Chuan Hu, Min Wu, Qingqing Long, Xuezhi Wang, Yuanchun Zhou, and Meng Xiao

B1051 "Navigating the Unknown: A Novel MGUAN Framework for Medical Image Recognition Across Dynamic Domains"

Wan Su, Fan Wang, Rundong He, Zhongyi Han, and Yilong Yin

B1061 "Improving Metagenomic Binning of Long Reads via Feature Fusion and Graph SAGE"

Jintong Nie, Liu Huan, Fajun Huang, Chen Huarong, and Luo Minzhong

B1063 "Multivariate Time Series Representation Learning for Electrophysiology Classification with Procedure State Cross-domain Embedding"

Guichun Zhou and Xiangdong Zhou

B1100 "LCCH:A low computational complexity hybrid model based on the half-router attention for biopharmaceutical indicators prediction"

Yichen Song, Chenxi Xia, Simengxu Qiao, Changdi Li, Qunshan He, and Xinggao Liu

B1188 "Detecting DTI Using Graph Embedding and Multi-Head Attention Mechanism"

Xiaoli Lin, Yaoyu Chen, Wenli Yang, HaiPing Yu, Zimo Wu, and Xiaolong Zhang

B1210 "Single Cell Gene Expression Prediction via Prototype-based Proximal Neural Factorization"

Xiaozhuang Song, Xu Liao, Hangting Ye, Yaoyao Xu, Wei Fan, Jin Liu, and Tianshu Yu

B1216 "MDDMamba: A Model for Multi-Modal Depression Detection with a Memory-Saving Cross-Modal Attention Mechanism Based on Mamba"

Mingzhou Liu, Zheyu Wang, and Feng Liu

B1238 "MC-FAW: A Multi-Scale Convolutional Feature Adaptive Weighting Fusion Network for Detecting Disorders of Consciousness"

Lina Qiu, Xianyue Song, Zuorui Ying, Weisen Feng, Liangquan Zhong, and Jiahui Pan

B1254 "Analysis of Imputation Techniques and Classification Types in the Improvement of Early Diagnosis of Infectious Diseases in Institutionalized Elderly People"

Melisa Granda, Alberto Garcés Jiménez, Francisco Javier Bueno Guillén, Diego María Rodríguez Puyol, and José Manuel Gómez Pulido

B1272 "Explainable multiscale representation learning for anticancer peptide prediction"

Yongqing Zhang, Xinyu Mao, Yuhang Liu, Wang Li, Zhigan Zhou, and Jia He

B1300 "Exploring Natural Language Processing Model Acceleration in Molecular Dynamics Simulation Using High-Performance Computing and Machine Learning"

Qi Du, Feng Wang, Hui Huang, Xiaoyu Wu, Heng Wan, and Chengkun Wu

B1340 "ResPocket A Multi-Scale Feature Fusion Method for Improving Protein Binding Site Detection"

Xiaoli Lin, Wenli Yang, Yaoyu Chen, Xiongwei Liao, Zimo Wu, and Xiaolong Zhang

B1345 "Timely-MDA: A Benchmark for Generalizable MiRNA-Disease Association Prediction"

Yi Zhou, Xian Guan, Meixuan Wu, Chengzhou Ouyang, and Min Zhu

B1352 "BiDNAMamba: Pre-trained Bidirectional State Space Model for Motif Analysis in DNA"

Guangjian Zeng, Xiaxia Yu, Siyuan Tao, Weiye Zhou, Momiao Xiong, and Shenying Fang

B1414 "Real-time Double-Layer Graph Attention Networks for Parathyroid Detection"

Wanling Liu, Wenhuan Lu, Qian Sun, Fei Chen, Bo Wang, and Wenxin Zhao

B1432 "Active Learning for Multi-Class Drug-Drug Interactions Prediction"

Ang Liu, Yafang Huang, Yuehong Wu, Siwei Liu, and Shangsong Liang

B1486 "CAVE-OCTA: A Vessel Expressions Controlled Diffusion Framework for Synthetic OCTA Image Generation"

Xinrun Chen, Mei Shen, Haojian Ning, Mengzhan Zhang, Chengliang Wang, and Shiying Li

B1515 "Predicting Microbe-Disease Association Based on Enhanced heterogeneous Relational Graph Convolutional Networks"

Song Jiang, Haodong Wang, Yue Huang, Weizhong Zhao, and Xianjun Shen

B1550 "A Dual-Modal Contrastive Learning Framework for Antimicrobial Peptides Classification"

Wen Kong, Weizhong Zhao, and Tingting He

B1561 "Graph-Aware Unsupervised Feature Scoring Using Reconstruction Errors in GNN Embeddings"

Sehee Wang, So Yeon Kim, and Kyung-Ah Sohn

B1603 "Multi-dimensional Spatio-temporal Prediction Network for Pre-hospital Emergency Care"

Xifeng Hu, Jingchuan Wang, Wenmiao Wang, Lei Shi, Xiaoyun Yang, Weifeng Hu, Zhi Liu, and Yujun Li

B1614 "Predicting Distant Drug-Target Interactions via a Random Walk Guided Graph Neural Network"

Xu Jin, MaoQiang Xie, YaLou Huang, MingMing Liu, Desheng Kong, Yuhang Xuan, and Yang Kuang

B1628 "scMonica: Single-cell Mosaic Omics Nonlinear Integration and Clustering Analysis"

Xiaoli Li, Rui Zhang, Saba Aslam, Huijun Li, Yuxi Chen, Zequn Zhang, Ruey-Song Huang, and Hongyan Wu

B1630 "Multi-Modal Brain Graph Learning of Shared-Specific Features for Schizophrenia Diagnosis"

Yin Huang, Geng Chen, Xuyun Wen, and Dinggang Shen

B1643 "Utilizing Attention-based Ensemble Mechanism to Identify Discriminative Feature Combinations for Sleep Staging"

Yuwei Dai, Yingwei Zhang, Yiqiang Chen, Yang Gu, Yuan Jin, and Wei Zhang

B1662 "Deep Learning-based Modelling of Complex Hypertensive Multi-Organ Damage with Uncertainty Quantification from Simple Clinical Measures"

Turkay Kart, Mohanad Alkhodari, Winok Lapidaire, Abhirup Banerjee, Adam J. Lewandowski, and Paul Leeson

B1663 "Efficient Style Transfer for Computational Pathology with Cross-modality Local Manipulation"

Shichang Sun, Zhihao Yang, Hongfei Lin, Jiana Meng, Jincheng Zhang, and Rui Wang

B1673 "Multimodal Medical Image Feature Representation and Fusion for AD Early Diagnosis"

Jing Qu, Ying Qu, Xueliang Bai, LanXin Xu, Han Wang, and Guixia Liu

B1676 "GenoHoption: Bridging Gene Network Graphs and Single-Cell Foundation Models"

Jiabei Cheng, Jiachen Li, Kaiyuan Yang, Hongbin Shen, and Ye Yuan

B1683 "A framework for hyperparameter optimization of genomic cloud pipelines: improving the performance of GATK VETS variant filtration"

Wanying Dou, Samuel K. Lee, and Kiran V. Garimella

B1693 "BiotaFormer: Detecting biota in microscopic activated sludge images for wastewater treatment"

Shuning Liu, Huizhen Chen, Rongkai Liu, Heyuan Shi, Chao Hu, and Ronghua Shi

B1703 "Self-Supervised Temporal-Connectivity Contrastive Learning for fMRI Analysis on Autism Spectrum Disorder Classification"

Ying Xiong, De-Zhi Jin, and Ye He

B1770 "3D Electromechanical Coupling Simulation Under Heart Failure: Exploring Reentry Phenomena and Arrhythmogenesis"

Wei Wang, Xianda Bu, Qince Li, and Kuanquan Wang

B1819 "FuncNet: A Machine Learning Framework Capable of Enhancing Neural Cell Type Classification via Functional Subtype Clustering"

Chenyu Zhang, Seung-Hyun Hong, Riqiang Yan, and Dong-Guk Shin

B1849 "An Improved Prediction Model for Phage-host Interactions Based on Fusing Global and Local Semantics of RBP Information"

Yifei Chen, Weizhong Zhao, Xinhui Tu, and Tingting He

B1865 "DG-MSGAT: Biologically-Informed Graph Model for Enhanced Prediction of Neoadjuvant Therapy Response in Rectal Cancer"

Xu Luo

6. Biomedical and Health Informatics

Regular Papers:

B211 "Local-Global Features Fusion Network for Distinguishing Radiolucent Jaw Lesions via CBCT"

Yuan Wang, Chen Hua, Zikang Chai, Liang Mao, Zhijun Sun, and Juan Liu

B227 "Efficient Prototype Consistency Learning in Semi-Supervised Medical Image Segmentation via Joint Uncertainty and Data Augmentation"

Lijian Li, Yuanpeng He, and Chi-Man Pun

B232 "Efficient Topology-Driven Clustering for Imbalanced Streaming Biomedical Data Analysis"

Xiaopeng Luo, Yiqun Zhang, Yuzhu Ji, Peng Liu, and Taoting Xiao

B233 "Frequency-aware Adaptive Filtering Network for Few-Shot Medical Image Segmentation"

Ziming Cheng, Shidong Wang, Tong Xin, and Haofeng Zhang

B234 "Consistency Prior Matters: Biomedical-Prompting Dual Augmentation for Domain Adaptive Medical Image Segmentation"

Yunnan Wang, Zequn Zhang, Xin Jin, and Wenjun Zeng

B235 "Multi-rater Prompting for Ambiguous Medical Image Segmentation"

Jinhong Wang, Yi Cheng, Jintai Chen, Hongxia Xu, Danny Chen, and Jian Wu

B264 "2.5D ASF-UNet: Adjacent Slice Spatial Feature Fusion Model for WMH Segmentation from 3D MR Brain Image"

Lan Huang, Yinglu Sun, Ziqi Zhao, Chunjie Guo, and Yan Wang

B281 "Leveraging Convolutional Models as Backbone for Medical Visual Question Answering"

Lei Liu, Xiangdong Su, and Guanglai Gao

B292 "BiSeg-SAM: Weakly-Supervised Post-Processing Framework for Boosting Binary Segmentation in Segment Anything Models"

Encheng Su, Hu Cao, and Alois Knoll

B295 "Alternate Interaction Multi-Task Hierarchical Model for Medical Images"

Yucheng Song, Yifan Ge, Jia Guo, Zhifang Liao, and Lifeng Li

B301 "Multivariate Time-Series Representation Learning for Continuous Medical Diagnosis"

Xiong-jun Zhao, Linzhuang Zou, Peiqi He, Zheng-Yu Liu, and Shaoliang Peng

B312 "Mutual Evidential Deep Learning for Semi-supervised Medical Image Segmentation"

Yuanpeng He, Yali Bi, Lijian Li, Chi-Man Pun, Wenpin Jiao, and Zhi Jin

B313 "MSKI-Net: Towards modality-specific knowledge interaction for glioma survival prediction"

Ran Su, Jin Xiao, Hui Cui, Ping Xuan, Xikang Feng, Leyi Wei, and Qiangguo Jin

B324 "A Novel Knowledge Enhanced Large Language Model Augmented Framework for Medical Question Answering"

Haochen Zou and Yongli Wang

B327 "Imputation of incomplete medical data using missing neighborhood perturbation denoising autoencoder"

Huamei Qi, Wenhui Yang, Sen Fu, and Lei Deng

B328 "ICH-SCNet: Intracerebral Hemorrhage Segmentation and Prognosis Classification Network Using CLIP-guided SAM mechanism"

Xinlei Yu, Ahmed Elazab, Ruiquan Ge, Hui Jin, Xinchen Jiang, Gangyong Jia, Qing Wu, Qinglei Shi, and Changmiao Wang

B345 "Pseudo Label-based Multi-View Annotation for Semi-Supervised Medical Image Segmentation"

Li xiafan and Hongyan Quan

B346 "From Non-Expert to Expert: Recurrent Refined Learning for Medical Image Segmentation"

Ruohui Jiang, Changtai Li, Xiaojuan Ban, Shihua Yin, Chao Yao, Yu Guo, and Mohammad Obaidat

B358 "Classifying Cervical OCT Images using Masked Autoencoders with VMamba"

Qingbin Wang, Yuchen Pei, Jian Wang, and Yutao Ma

B361 "Graph-guided Sequential Transfer for Medical Image Segmentation"

Jingyun Yang

B363 "SelfAlign: Achieving Subtomogram Alignment with Self-Supervised Deep Learning"

Xuan Wang, Haofan Cao, Xinsheng Wang, Xiaohua Wan, and Fa Zhang

B370 "Automated Detection of Epileptic Spikes and Seizures Incorporating a Novel Spatial Clustering Prior"

Hanyang Dong, Shurong Sheng, Xiongfei Wang, Jiahong Gao, Yi Sun, Wanli Yang, Kuntao Xiao, Pengfei Teng, Guoming Luan, and Zhao Lv

B407 "Dual Sentiment-aware Networks for Adverse Drug Reactions Detection"

Yunzhi Qiu, Xiaokun Zhang, Weiwei Wang, and Hongfei Lin

B409 "SpaChat: Integrating Single-Cell Foundation Model with Cell Graph Network for Spatially Resolved Cell-Cell Communication Inference"

Debin Qiao, Boya Ji, Hong Xia, and Shaoliang Peng

B422 "MatchSeg: Towards Better Segmentation via Reference Image Matching"

Jiayu Huo, Ruiqiang Xiao, Haotian Zheng, Yang Liu, Sebastien Ourselin, and Rachel Sparks

B428 "EEG-based Cross Subject Emotion Recognition based on collaborative learning and dynamic distribution adaptation"

Jin Gu, Fei Xiong, and Xinhao Gong

B462 "Progressive Retinal Image Registration via Global and Local Deformable Transformations"

Yepeng Liu, Baosheng Yu, Tian Chen, Yuliang Gu, Bo Du, Yongchao Xu, and Jun Cheng

B476 "RARoK: Retrieval-Augmented Reasoning on Knowledge for Medical Question Answering"

Buchao Zhan, Anqi Li, Xin Yang, Dongmei He, Yucong Duan, and Shankai Yan

B484 "MobileP²VT: Parallel Hybrid Structure makes Lightweight Network Stronger for Diabetic Retinopathy Classification"

Hongxu Ji, Jie Wu, Heran Xi, and Jinghua Zhu

B494 "Leveraging Vote and Cooperate Mechanism for Brain Tumor Segmentation"

Cunhan Guo, Heyan Huang, Changsen Yuan, and Yang-Hao Zhou

B501 "RadChat: A Radiology Chatbot Incorporating Clinical Context for Radiological Reports Summarization"

Xin Mei, Linbin Yang, Dehong Gao, Xiaoyan Cai, Tianming Liu, and Junwei Han

B503 "Multi-instance Curriculum Learning for Histopathology Image Classifications with Hard Negative Mining and Positive Augmentation"

Zihao Mi, Xueyu Liu, Jianan Zhang, Guangze Shi, Yidi Li, and Yongfei Wu

B509 "PV-SSM: Exploring Pure Visual State Space Model for High-dimensional Medical Data Analysis"

Cheng Wang, Xinyu Liu, Chenxin Li, Yifan Liu, and Yixuan Yuan

B511 "Robust Federated Semi-Supervised Learning for Medical Image Classification via Pseudo-Label Filtering"

Ziwei Wang, Shuyu Guo, Mingzhu Zhu, and Tian Bai

B526 "2D-3D Feature Co-Embedding Network with Sparse Annotation for 3D Medical Image Segmentation"

Mingzhu Zhu, Shuyu Guo, Ziwei Wang, Jianhang Jiao, and Tian Bai

B538 "FedDP: Privacy-preserving method based on federated learning for histopathology image segmentation"

Liangrui Pan, Mao Huang, Lian Wang, and Shaoliang Peng

B548 "Meta-optimised Time-index Modeling for Glucose Excursion Prediction"

Ran Cui, Hanna Suominen, Christopher J Nolan, and Elena Daskalaki

B549 "Enhancing Clinical Information for Zero-Shot Medical Diagnosis by Prompting Large Language Model"

Qiushi Yang, Meilu Zhu, and Yixuan Yuan

B550 "MDKFusion: Medical Domain Knowledge-Inspired Area Amplification Network for Multi-Sequence MRI Image Fusion in Ischemic Stroke"

Min Li, Pahati Tuxunjiang, Feng Li, Enguang Zuo, Xiaoyi Lv, Yunling Wang, Chen Chen, and Cheng Chen

B552 "PMDC: Pancreas Segmentation with Mamba Block and Deformable 3D Convolution"

Ziyao Meng, Yiming Qin, Tianyi Wang, Hao Shen, Yang Liu, Jie Dong, and Haitao Song

B557 "Jointly Estimation of Microstructure Maps Across Acquisition Protocols"

Tenglong Wang, Jiahao Yu, Yiang Pan, Jianzhong He, Yifei He, and Ye Wu

B561 "A Novel Automatic Prompt Tuning Method for Polyp Segmentation"

Xin Jing, Heyang Zhou, Keming Mao, Yuhai Zhao, and Liangyu Chu

B574 "MSCE-LT: Multi-Label Supervised Contrastive Enhancement for Long-Tailed Retinal Diseases Recognition"

Tingyao Li and Bin Sheng

B578 "An Automatic Assessment of Parkinson's Disease in Arising from Chair Task via Refined Diffusion-based Pose Estimator"

Mengqi Liu, Chi-Man Pun, Haolun Li, Mingliang Zhai, Feng Xu, and Hao Gao

B587 "EIVS: Unpaired Endoscopy Image Virtual Staining via State Space Generative Model"

Yizhou Liu, Xianglei Yuan, and Yao Zhou

B589 "SymMatch: Symmetric Bi-Scale Matching with Self-Knowledge Distillation in Semi-Supervised Medical Image Segmentation"

Chunshi Wang, Shougan Teng, Shaohua Sun, and Bin Zhao

B598 "M3GNAS: Multi-modal Multi-view Graph Neural Architecture Search for Medical Outcome Predictions"

Raeed AL-sabri, Jianliang Gao, Jiamin Chen, Babatounde Moctard Oloulade, Zhenpeng Wu, Monir Abdullah, and Xiaohua Hu

B600 "Advancing Ultrasound Medical Continuous Learning with Task-Specific Generalization and Adaptability"

Chunzheng Zhu, Jianxin Lin, Guanghua Tan, Ningbo Zhu, Kenli Li, Chunlian Wang, and Shengli Li

B607 "Uncertainty-aware Condensation for OCT Cervical Dataset Combining Coreset Selection and Distillation"

Yuxuan Xiong, Yongchao Xu, Yan Zhang, Kai Gui, and Bo Du

B622 "DeCo-Net Robust Multimodal Brain Tumor Segmentation via Decoupled Complementary Knowledge Distillation"

Zhilin Zeng, Zelin Peng, Xiaokang Yang, and Wei Shen

B625 "3D Skull Completion via Two-stage Conditional Diffusion-Based Signed Distance Fields"

Zhenhong Liu, Xudong Ru, Xingce Wang, Zhongke Wu, Yicheng Zhu, Chong Zhang, and Alejandro F Frangi

B648 "Exploring Optimal Transport-Based Multi-Grained Alignments for Text-Molecule Retrieval"

Zijun Min, Bingshuai Liu, Liang Zhang, Jia Song, Jinsong Su, Song He, and Xiaochen Bo

B659 "FTMSNet: Towards boundary-aware polyp segmentation framework based on hybrid Fourier Transform and Multi-scale Subtraction"

Guangzhe Zhao, Sihao Chen, Xueping Wang, Feihu Yan, and Maozu Guo

B660 "Predicting Alzheimer's Disease Progression using Time-Decay LSTM Network with Multi-Condition Variational Autoencoder"

Qiao Pan, Yan Liu, Qian Li, and Mei Wang

B677 "EmoTracer: A User-independent Wearable Emotion Tracer with Multi-source Physiological Sensors Based on Few-shot Learning"

Kuang Wenting, Jin Shuo, Wang Danyang, Zheng Yuda, Zou Yongpan, and Wu Kaishun

B680 "Automatic SQL Query Generation from Code Switched Natural Language Questions on Electronic Medical Records"

Haodi Zhang, Jinyin Nie, Zeming Liu, Dong Lei, and Yuanfeng Song

B682 "Adaptive Multi-Cognitive Objective Temporal Task Approach for Predicting AD Progression"

Xuanhan Fan, Menghui Zhou, Yu Zhang, Jun Qi, Yun Yang, and Po Yang

B683 "Class-imbalanced Time Series Adaptation via Multi-Expert Consistency Entropy Minimization"

Yuan Ma, Yang Gu, Shuai Guo, Weining Weng, Shijie Wen, and Yiqiang Chen

B692 "Efficient Large-Scale Pre-Trained Model Guided MR Imaging Super-Resolution"

Fenghang Zhang, Guang Feng, Xizhan Gao, and Sijie Niu

B696 "Taming Stable Diffusion for MRI Cross-Modality Translation"

Yingtai Li, Shuo Yang, Xiaoyan Wu, Shan He, and S. Kevin Zhou

B698 "A Smooth Conditional Domain Adversarial Training Framework for EEG Motor Imagery Decoding"

Qilong Yuan, Enze Shi, Kui Zhao, Di Zhu, Dingwen Zhang, and Shu Zhang

B707 "DEAP-3DSAM: Decoder Enhanced and Auto Prompt SAM for 3D Medical Image Segmentation"

Fangda Chen, Jintao Tang, Pancheng Wang, Ting Wang, Shasha Li, and Ting Deng

B709 "Lightweight Alzheimer's Disease Diagnosis Based on Gaussian Graphical Lasso Estimation"

Shuaishuai Lv, Zhengxin Guo, Ruiqi Chen, Dongzi Wang, Ning Ye, and Fu xiao

B722 "CPDT: A Novel Cluster-based Paired Decision Tree for Identifying Biomedical Entity Interactions"

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

B727 "Addressing Temporal and Auditory Factors in Meditative EEG with Self-Supervised Learning"

Mingyu Gou, Ying-Jie Zhang, Ren-Jie Dai, Hao-Long Yin, Tianzhen Chen, Fei Cheng, Bao-Liang Lu, Jiang Du, and Wei-Long Zheng

B730 "EP-Net: Automatic Artery/Vein Classification With Evidential Probability Map"

Rongchang Zhao, Bo Xu, Xiaoliang Jia, and Jin Liu

B731 "Predicting Lung Nodule Growth from Follow-up CT Scans with Deep Isotropic Network"

Ruobing Wang, Zehao Qi, Shengjuan Guo, Jia Ni Zou, Feng Liu, and Wen Cai Huang

B747 "Tri-Hash Progressive Sampling Neural Attenuation Field for Sparse-View CBCT Reconstruction"

Sisi Wang, Lijun Guo, Rong Zhang, Wenming He, Qiang Li, and Shangce Gao

B753 "PriMatch: Semi-supervised Network for Multi-modal Medical Image Segmentation with Cross-modal Data Augmentation and Adaptive Prior Knowledge Thresholding"

Yulin Yang, Hong Song, Yucong Lin, Long Shao, Jingfan Fan, Tianyu Fu, Danni Ai, Deqiang Xiao, and Jian Yang

B771 "Shape Transformation Driven by Active Contour for Class-Imbalanced Semi-Supervised Medical Image Segmentation"

Yuliang Gu, Yepeng Liu, Zhichao Sun, Jinchi Zhu, Yongchao Xu, and Laurent Najman

B776 "Trustworthy Enhanced Multi-view Multi-modal Alzheimer's Disease Prediction with Brain-wide Imaging Transcriptomics Data"

Shan Cong, Zhoujie Fan, Hongwei Liu, Yinghan Zhang, Xin Wang, Haoran Luo, and Xiaohui Yao

B783 "A4-Unet: Deformable Multi-Scale Attention Network for Brain Tumor Segmentation"

Ruoxin Wang, Tianyi Tang, Haiming Du, Yuxuan Cheng, Yu Wang, Lingjie Yang, Xiaohui Duan, Yunfang Yu, Yu Zhou, and Donglong Chen

B787 "Medical Language Mixture of Experts for Improving Medical Image Segmentation"

Yaru Liu, Jiangbo Pei, Zhu He, Guangjing Yang, Zhuqing Jiang, and Qicheng Lao

B792 "Enhancing Nested Named Entity Recognition in Chinese EMRs: A Collaborative Approach"

Hongtao Yue, Xiaoyue Feng, Hanchi Xu, Haoxuan Chu, Yushi Wang, and Renchu Guan

B824 "A Dual-stage Teacher-Student Representation Learning Framework for Semi-supervised Cardiac Image Segmentation"

Yifan Zhang, Jiajun Zhao, Yang Zhao, and Xuan Yang

B840 "ECAPA-TDNN: A Model Based on Spontaneous Speech for MCI Detection"

Jiyun Li, Alang Sun, and Chen Qian

B854 "FHRDiff: Leveraging Diffusion Models for Conditional Fetal Heart Rate Signal Generation"

Xiaoqing Li, Yu Lu, Kee Yuan Ngiam, Zichang Yu, and Mohammad Shaheryar Furqan

B858 "PN-Quant: An Automated Pulmonary Nodule Quantification Method for Full-Size CT Scans"

Xinkai Tang, Zhiyu Zhu, Shengjuan Guo, Feng Liu, Yi Ping Phoebe Chen, Wencai Huang, and Jiani Zou

B865 "Construction of Simulated 3D CT from Multiple-View X-Ray Images"

Liang Zhao, Xiaoyuan Li, Sijia Hou, Xin Fan, Zhikui Chen, and Shuqiong Wu

B873 "TexCIL: Text-Guided Continual Learning of Disease with Vision-Language Model"

Wentao Zhang, Defeng Zhao, Wei-Shi Zheng, and Ruixuan Wang

B883 "Progressive Stepwise Diffusion Model with Dual Decoders for Semi-Supervised Medical Image Segmentation"

Xiaolin Huang, Jingchun Lin, Jiacheng Chen, Xiao Ma, Bingzhi Chen, and Guangming Lu

B888 "CCLNet: Causal and Contrastive Learning Framework for Enhanced Pulmonary Embolism Detection"

Zhipeng Wang, Ruiquan Ge, Jianxun Yu, Feiwei Qin, Yuan Tian, Nannan Li, Wenwen Min, Ahmed Elazab, and Changmiao Wang

B910 "MFSegDiff: A Multi-Frequency Diffusion Model for Medical Image Segmentation"

Zidi Shi, Hua Zou, Fei Luo, and Zhiyu Huo

B917 "GAInS: Gradient Anomaly-aware Biomedical Instance Segmentation"

Runsheng Liu, Hao Jiang, Yanning Zhou, Huangjing Lin, Liansheng Wang, and Hao Chen

B930 "EnlightenDepth: a Novel Self-supervised Monocular Depth Estimation with Low-light Enhancement in Endoscopy"

Chi Kong Tam, Feng Liu, Fei Xia, Shantu Arafat, Jun kui Zhang, and Fei Luo

B939 "UP-SAM: Uncertainty-Informed Adaptation of Segment Anything Model for Semi-Supervised Medical Image Segmentation"

Wenjing Lu, Yi Hong, and Yang Yang

B942 "C2RG: Parameter-efficient Adaptation of 3D Vision and Language Foundation Model for Coronary CTA Report Generation"

Zhiyu Ye, Yue Sun, Wei Shi, Bang Yang, Shibin Wu, Hancong Wang, Cheng Xu, Hairong Zheng, Yining Wang, and Tong Zhang

B944 "SCS-Voxel2Mesh: a Self-Calibrated Separable 3D Mesh Generation Network for Lung Nodule Spikes Classification and Malignancy Prediction"

Ronald Bbosa, Jia Ni Zou, Kafui Efio-Akolly, Yi-Ping Phoebe Chen, Wen Cai Huang, and Feng Liu

B977 "Aligning Multimodal Biomedical Images and Language via One Large Vision-Language Model"

Haojie Zhang, Min Zeng, Jinfeng Ding, Yixiong Liang, Ruiqing Zheng, Zhe Qu, Min Li, and Shichao Kan

B978 "S2CCT: Self-Supervised Collaborative CNN-Transformer for Few-shot Medical Image Segmentation"

rongzhou zhou, ziqi shu, weixing xie, junfeng yao, and qingqi hong

B979 "DualDoctor: A Mutual Learning Method with Dynamic Knowledge Transfer and Class-Level Alignment for Classifying Medical Images"

Ting Long, Lele Li, Feng Yang, Yuan Wang, and Juan Liu

B1013 "IMAN: An Adaptive Network for Robust NPC Mortality Prediction with Missing Modalities"

Yejing Huo, Guoheng Huang, Lianglun Cheng, Jianbin He, Xuhang Chen, Xiaochen Yuan, Guo Zhong, and Chi-Man Pun

B1018 "High-Resolution Spatial Transcriptomics from Histology Images using HisToSGE"

Zhiceng Shi, Shuailin Xue, Fangfang Zhu, and Wenwen Min

B1021 "Zero-Shot Diagnosis of Unseen Pulmonary Diseases via Spatial Domain Adaptive Correction and Guidance by ChatGPT-4o"

Junjie Wang, Tengfei Wang, Jun Xu, Zhenglin Zhang, Hongzhi Wang, and Hai Li

B1023 "Autonomous Pharmaceutical Care with Large Language Models"

Yutao Dou, Yuwei Huang, Tao Xing, Jian Xiao, and Shaoliang Peng

B1036 "TPC-GNN: A Three-Level Hierarchical Graph Neural Network for Microsatellite Instability Prediction from Histopathology Whole Slide Images"

Hang Zhang, Xueru Xu, Guoyou Wang, and Yiqing Shen

B1037 "TourSynbio: A Multi-Modal Large Model and Agent Framework to Bridge Text and Protein Sequences for Protein Engineering"

Yiqing Shen, Zan Chen, Michail Mamalakis, Yungeng Liu, Tianbin Li, Yanzhou Su, Junjun He, Pietro Lio, and Yuguang Wang

B1042 "RPF-ELD: Regional Prior Fusion using Early and Late Distillation for Breast Cancer Recognition in Ultrasound Images"

Haosen Wang, Gengyuan Zhang, Yingnan Zhao, Fang Lai, Wenwei Cui, Jiexiao Xue, Qihang Wang, Hao Zhang, and Yi Lin

B1046 "MTPNet: Learning Multiple Twin-support Prototypes for Few-shot Medical Image Segmentation"

Feifan Song, Ziming Cheng, Lunbo Li, and Haofeng Zhang

B1054 "SeqFRT: Towards Effective Adaption of Foundation Model via Sequence Feature Reconstruction in Computational Pathology"

Chengfei Cai, Jun Li, Mingxin Liu, Yiping Jiao, and Jun Xu

B1064 "CSA-UNet: An Efficient Context Separable Attention UNet for Medical Image Segmentation"

Xiangqiong Wu, Nan Hu, and Peng Wang

B1085 "SL-SFGR: Segmentation Learning Coupling Spatial-Frequency Structure Information Enhancement for Guiding Registration"

Fan Gao, Yuanbo He, Shuai Li, Aimin Hao, Meiyun Wang, and Desen Cao

B1091 "Localization and Angle Estimation of Capsule Robots in Ultrasound Images Using Spatially Adaptive Gaussian Distribution."

yue wang, Lingyu Chen, Haojie Han, Daoqiang Zhang, Hongen Liao, and Fang Chen

B1092 "CELL: Supplementing Context for Multi-modal Few-shot Cardiologist"

Huaicheng Zhang, Jiguang Shi, Yue Ge, Sheng Chang, Hao Wang, and Qijun Huang

B1099 "SAM-FNet: SAM-Guided Fusion Network for Laryngo-Pharyngeal Tumor Detection"

Jia Wei, Yun Li, Meiyu Qiu, Hongyu Chen, Xiaomao Fan, and Wenbin Lei

B1101 "Uncertainty-Guided Incremental Interactive EEG Emotion Recognition with Gaussian Process"

Xiangle Ping, Huili Zhang, Mingquan Jin, Maoling Qin, and Wenhui Huang

B1115 "A Multi-task learning model with low-level feature sharing and inter-feature guidance for segmentation and classification of medical images"

Rong Zhang and Minzhu Xie

B1123 "GC-UNet: Enhance UNet with GCN for Periodontitis Segmentation"

Wenchong Xu, Yuting Guo, Wei Li, Jiang Lin, and Shuai Li

B1125 "LMR-EWMA: A LASSO-based Multivariate Residual Control Chart for Monitoring Rare Health-Related Events"

Ruoyu Liu, Jiayin Wang, Xiaoyan Zhu, Yuqian Liu, Yixuan Wang, Shuanying Yang, and Xin Lai

B1131 "A Fine-tuning Dataset and Benchmark for Large Language Models for Protein Understanding"

Yiqing Shen, Zan Chen, Michail Mamalakis, Luhan He, Haiyang Xia, Tianbin Li, Yanzhou Su, Junjun He, and Yu Guang Wang

B1134 "ContraMAE: Contrastive alignment masked autoencoder framework for cancer survival prediction"

Suixue Wang, Huiyuan Lai, Shuling Wang, and Qingchen Zhang

B1149 "A Semi-Supervised Approach with Error Reflection for Echocardiography Segmentation"

Xiaoxiang Han, Yiman Liu, Jiang Shang, Qingli Li, Jiangang Chen, Menghan Hu, Qi Zhang, Yuqi Zhang, and Yan Wang

B1176 "ACPNet: Enhancing Small-Scale Diseases Detection in Panoramic X-rays"

Nan Gao, Junchao Zhu, Peng Chen, Jijun Tang, Feng Jiang, and Ronghua Liang

B1192 "MVKTrans: Multi-View Knowledge Transfer for Robust Multiomics Classification"

Shan Cong, Zhiling Sang, Hongwei Liu, Haoran Luo, Xin Wang, Hong Liang, Jie Hao, and Xiaohui Yao

B1196 "Automated Detection and Classification of Pediatric Middle Ear Diseases from CT using Entropy Projection and Feature Interaction"

Wensheng Li, Jie Zhang, Jianlin Guo, Xiaoxu Wang, Guangyuan Xu, Yun Peng, and Liyun Tu

B1203 "Alzheimer's Disease Prediction with Irregular MRI Sequences Based on Pyramid Squeeze Attention and Time-Sensitive Attention Mechanisms"

Yihan Chen, Ruqi Wang, Yu Shao, Baijiang Xu, Bo Xu, and Liang Zhao

B1213 "DUMFNet: Enhanced Medical Image Segmentation with Multi-visual Encoding and Local Scanning"

Yuxuan Luo, Chong Peng, Hongyu Wang, Pan Zhou, Liejun Wang, and Panpan Zheng

B1224 "Low-Quality Ultrasound Image Enhancement Using Spatially Variable Neural Implicit Network"

Xiaojie Wang, Jing Xia, Mei Wu, Shanshan Gao, and Yuanfeng Zhou

B1232 "Innovative 3D CTF Correction Techniques for Cryo-ET of Individual Particles"

Xuan Wang, Shiwei Liu, Xinsheng Wang, Xiaohua Wan, and Fa Zhang

B1233 "HFGS: High-Frequency Information Guided Net for Multi-Regions Pseudo-CT Synthesis"

Rongchang Zhao, Jianyu Qi, Rui Li, Teng Yang, Jiaxu Li, Jian Zhang, and Zijian Zhang

B1250 "Copd-ChatGLM: A Chronic Obstructive Pulmonary Disease Diagnostic Model"

Liang Zhao, Yang Wang, Xinyu Wang, Rui Lin, Zhanxin Gang, and Baijiang Xu

B1256 "Multi-Scale Co-Attention Reinforced U-Net for Medical Image Segmentation"

Yantao Song, Miao Zhang, Yunli Lu, Jiang Chang, and Lu Chen

B1267 "Fuzzy Attention-based Geometric Algebra Convolution in Recursive Fusion Network for Medical Image Registration"

Yufeng Zhou, Wenming Cao, and Yicha Zhang

B1291 "EMO-Mamba: Multimodal Selective Structured State Space Model for Depression Detection"

Tao Xing, Yutao Dou, Xiaolan Xie, Jiansong Zhou, Xianliang Chen, and Shaoliang Peng

B1308 "MHSA: A Multi-scale Hypergraph Network for Mild Cognitive Impairment Detection via Synchronous and Attentive Fusion"

Manman Yuan, Weiming Jia, Xiong Luo, Jiazhen Ye, Peican Zhu, and Junlin Li

B1319 "Improved Self-supervised Monocular Endoscopic Depth Estimation based on Pose Alignment-friendly Dynamic View Selection"

Ying Zhou, Shiquan He, Hao Wang, Fan Huang, Mei Liu, Qiang Li, and Zhiwei Wang

B1322 "Test-Time Medical Image Segmentation Using CLIP-Guided SAM Adaptation"

Haotian Chen, Yonghui Xu, Yanyu Xu, Yixin Zhang, and Lizhen Cui

B1327 "Global Contrastive Learning with High-Quality Data in Large Vision-Language Models for Pathological Question Answering"

Hulin Kuang, Suoni Liu, Haojie Zhang, Zhe Qu, and Shichao Kan

B1334 "UniSleepPos: Sleep Posture Identification System Utilizing Millimeter-wave Radar"

Kun Liu, Min Li, Chu He, Xu Tian, Junbin Mao, Min Zeng, and Jin Liu

B1336 "Attention-based Multimodal Fusion with Adversarial Network for In-Hospital Mortality Prediction"

Ying An, Ruping Qiu, Lin Guo, and Xianlai Chen

B1350 "Clinical Insight-Augmented Multi-View Learning for Alzheimer's Detection in Retinal OCTA Images"

Yuandi Zhang, Jinkui Hao, Yonghuai Liu, Yanda Meng, Jiong Zhang, Yang Chen, Chunfeng Yang, and Yitian Zhao

B1351 "RNASite: A one-stop tool website that integrates multiple RNA modification site databases and servers"

Jiahao Yuan, Xingfeng Li, Zilong Zhang, Qingchen Zhang, Quan Zou, and Feifei Cui

B1356 "Local-Global Spatio-Temporal Encoding with Adaptive Brain Region Signal Segmentation for Mild Cognitive Impairment Detection"

Jie Wang, Luohuang Wu, and Hulin Kuang

B1359 "Medical Document Embedding Enhancement with Heterogeneous Mixture-of-Experts"

Xiangyang Liu, Yi Zhu, Tianqi Pang, Kui Xue, Xiaofan Zhang, and Chenyou Fan

B1367 "A Multimodal Joint Representation Framework for Microbe–drug Association Prediction"

Ruizhe Zhang, Yiting Shen, Chenlian Zhou, Weizhong Zhao, and Xianjun Shen

B1381 "Multimodal contrastive learning with neuroimaging and cognitive tests for Alzheimer's disease diagnosis"

Liang Zhao, Jian Zhang, Bo Xu, Yi Yang, Yangqianhui Zhang, and Ruixin Ma

B1385 "SS-SwinUnet: A Distillation Method of Swin Transformer for Superior Ocular Image Segmentation"

Bowei Ma, Dehui Qiu, Ze xiong, Yulong Hu, Liguo Deng, HuiMei Yuan, Xiaohua Wan, and Fa Zhang

B1412 "Fetal Heart Sounds Classification Using Time-Cyclic Frequency Spectrogram and Hybrid Attention Network"

shengchang xiao, Xueshuai ZHANG, pengyuan zhang, and yonghong yan

B1418 "PRIDE: Pediatric Radiological Image Diagnosis Engine Guided by Medical Domain Knowledge"

Yuze Zhao, Shijie Pang, Zhuoyao Wang, Wen He, Yingwen Wang, Ruiwei Zhao, Rui Feng, and Xiaobo Zhang

B1419 "Adapting Multi-view Correlation Learning for Enhanced Cervical Dysplasia Diagnosis"

Gairui Bai, Wei Xi, and Jialin Zhuo

B1421 "Attention and Frequency-Domain Fusion Network for Detecting Skeleton Edge Points in Ankle Joint Fracture Diagnosis"

Yaqi Tian, Lingyu Chen, Haojie Lu, Zhe Zhao, and Fang Chen

B1422 "Enriching molecular graph representation via substructure learning"

Honghao Wang, Acong Zhang, and Ping Li

B1423 "SESAME: Toward Medical Image Segmentation via Foundation Model-assisted Semi-supervised Learning"

Qiyun Hu, Junao Shen, Jinkang Ji, Xinyu Wang, Tian Feng, and Hui Cui

B1427 "Scale-CoT: Integrating LLM with Psychiatric Scales for Analyzing Mental Health Issues on Social Media"

Bichen Wang, Yixin Sun, Yuzhe Zi, Yanyan Zhao, and Bing Qin

B1429 "A Lightweight End-to-End Three-domain Feature Fusion Network for Motor Imagery Decoding"

Ning Cao, Xin Wen, Yanrong Hao, Ruochen Cao, Chengxin Gao, and Rui Cao

B1435 "Edge-SAN: An Edge-Prompted Foundation Model for Accurate Nuclei Instance Segmentation in Histology Images"

Xuening Wu, Yiqing Shen, Qing Zhao, Yanlan Kang, Ruiqi Hu, and Wenqiang Zhang

B1440 "JojoSCL: Shrinkage Contrastive Learning for single-cell RNA sequence Clustering"

Ziwen Wang

B1450 "Waffomer: Wave-Frequency Cross-Prediction and Alignment for Knowledge-Enhanced Sleep Representation"

Weining Weng, Yang Gu, Shuai Guo, Yuan Ma, Yuchen Liu, Yuan Jin, Fulong Xiao, and Yiqiang Chen

B1454 "PNESR-DDI: An Effective Drug-Drug Interaction Prediction Model Based on Pretraining Method and Enhanced Subgraph Reconstruction"

Ke Chen, Xiaosong Han, Xiaoran Li, Yanchun Liang, Dong Xu, and Renchu Guan

B1469 "Spatial-temporal Consistency Constraint for Depth and Ego-motion Estimation of Laparoscopic Images"

Qin Zhang, Xiangling Nan, Yingfang Fan, Yihang Zhou, Yaoqun Liu, Fucang Jia, and Huoling Luo

B1479 "DAMAL: Data Augmentation Aided Multi-channel Attention Fusion Network for Multi-label Myocardial Infarction Localization"

Lin Guo, Qianyun Zhan, Nan Ma, and Ying An

B1481 "Temporal Group Attention Network with Affective Complementary Learning for Gait Emotion Recognition"

Ziyi Zhu, Philip C. L., Haiqi Liu, and Tong Zhang

B1483 "MAT: Medical AI-generated Text Detection Dataset from Multi-models and Multi-Methods"

Bo Xu, Ruiyuan Wang, Lingfan Ping, Chaoyue Zhu, Xiaoxia Liu, Hongfei Lin, Linlin Tian, and Feng Xia

B1519 "A Scaled Mask Attention-based Hybrid model for Survival Prediction"

Masum Shah Junayed and Sheida Nabavi

B1522 "Radiographic Reports Generation via Retrieval Enhanced Cross-modal Fusion"

Xia Hou, Yifan Luo, Wenfeng Song, Yuting Guo, Wenzhe You, and Shuai Li

B1538 "DAMNet: A Network Based on Dual Attention and Multi-Resolution Inputs for the Segmentation of Thoracic and Abdominal Organs"

Ruifen Cao, Zeyu Kai, Qi Hu, Yun Ding, Pijing Wei, Dayu Tan, and Chunhou Zheng

B1569 "Semi-Supervised Medical Image Segmentation with Cross-View Consistency and Contrastive Learning"

Bo Sun, Kexuan Li, Jingjuan Liu, Zhen Sun, Xuehao Wang, Huadan Xue, Aimin Hao, Shuai Li, and Yi Xiao

B1572 "Joint Segmentation of Primary Nasopharyngeal Carcinoma Tumors and Lymph Nodes via Global Attention"

Guihua Tao, Ziqin Ling, Haojiang Li, Jiangning Song, and Hongmin Cai

B1585 "Multimodal Bayesian Networks for Automatic Skin Disease Diagnosis"

Yunqi He, Jiahe Liu, Linglong Cai, You Li, Taimei Cui, and Hai Zhou

B1594 "ACNet: Enhancing Occlusion Awareness and Multi-Scale feature Capture for Cervical Cell Segmentation"

Hailong Chen, Yangyang Zhang, and Zhengxia Wang

B1595 "Masked Conditional Diffusion Model with GNN for Spatial Transcriptomics Data Imputation"

Xiaoyu Li, Wenwen Min, shunfang wang, Changmiao Wang, and Taosheng Xu

B1598 "An Artificial Intelligence-Assisted Bronchial Automatic Identification Using Deep Learning Technique"

Long Liu, Miao Zhou, Liang Chen, Jinjing Wu, Wenyun Xu, Zhanheng Chen, and Haipo Cui

B1605 "SRMAR: Spatiotemporal Representation for Motion Artifact Removal in Intravascular Ultrasound"

Yankun Cao, Guanjie Sun, Qing Cai, Xiaoxiao Cui, Lizhen Cui, Wenmiao Wang, Zhi Liu, and Yuezhong Zhang

B1616 "DETR-SAM: Combining Feature-Fused DETR Detector and Fine-Tuned SAM for Automatic Aortic Dissection Segmentation in CTA Image"

Wenjie Cai, Tao Tang, Lingming Kong, Ying Zhou, Jun Huang, Qingfeng Wang, and Jing Li

B1624 "Tomo-NeRL: tomographic neural representation learning for implicit CT image reconstruction"

Xiaoqin Tang, Boheng Tan, Yuanhao Guo, Xianping Yu, Jake Kendrick, and Mark Reynolds

B1625 "Att-EMD-Unet: A Novel weakly supervised perspective for ECG segmentation"

Yuxin Lin and Wei Wang

B1633 "Human-Machine Integration to Enhance Clinical Typing and Fine-Grained Interpretation of Cervical OCT Images"

Mi Yin, Yuchen Pei, and Yutao Ma

B1657 "A Novel Segmentation Algorithm for Throat Structures Identification"

Jinjing Wu, Wenhui Guo, Miao Zhou, Long Liu, Haipo Cui, Zui Zou, and Zhanheng Chen

B1689 "Dual decoder UNet with Contrastive learning for Brain Image Registration"

Ying Zhang, Shuai Guo, Dantong Shi, Jinhai Xiang, and Wen Zhang

B1708 "Molecular Graph Representation Learning Integrating Large Language Models with Domain-specific Small Models"

Tianyu Zhang, Yuxiang Ren, Chengbin Hou, Hairong Lv, and Xuegong Zhang

B1715 "DTA-Net: Dual-Task Attention Network for Medical Image Segmentation and Classification"

Haifeng Qi, Siyuan Shen, Zhijian Huang, and Lei Deng

B1717 "Benchmarking Distance Functions in Siamese Networks for Current and Prior Mammogram Image Analysis"

Sahand Hamzehei, Afsana Ahsan Jeny, Annie Jin, Clifford Yang, and Sheida Nabavi

B1719 "Transformer-Based Multi-Scale Fusion for Robust Predicting Microsatellite Instability from Pathological Images"

Taiyuan Hu, Haijing Luan, Rui Yan, Jifang Hu, Kaixing Yang, Xinyin Han, Weier Liu, Jiayin He, Xiaohong Duan, Ruilin Li, Fa Zhang, and Beifang Niu

B1721 "Don't Speak Anything: Deep Breath-Based Authentication Utilizing Sonar Signals on Smartphones"

Kailu Zheng, Jiefan Qiu, Dongfu Zhu, Xiyu Wang, Kejiang Xiao, and Xiaofu Chen

B1727 "Weakly Supervised Virtual Immunohistochemistry Staining via Schrödinger Bridge Method"

Fanhao Qiu, Yangyang Zhang, Xiaoguang Guo, and Zhengxia Wang

B1742 "MENTALER: Toward Professional Mental Health Support with LLMs via Multi-Role Collaboration"

Ziyin Gu and qingmeng Zhu

B1745 "Evidence Harmonization Network for Tumor Segmentation with Missing Modalities"

Shichen Sun, Yufei Chen, Yuqi Liu, and Xiaodong Yue

B1760 "Semantic-Aware Synthesis Network for Dental Caries Image Generation from CBCT to Micro-CT"

Haoxuan Shan, Yufei Chen, Wei Liu, Shuai Qi, and Qi Zhang

B1765 "Advancing Semi-Supervised EEG Emotion Recognition through Feature Extraction with Mixup and Large Language Models"

Shiyi Yao, Longfei Liu, Jingyi Lu, Dan Wu, and Ye Li

B1781 "GL-DAE: Global-Local Denoising Auto-Encoder for Fundus Images Quality Representation Learning"

Xiangwen Cai, Haijun Lei, Hai Xie, Guoming Zhang, and Baiying Lei

B1830 "BcMatch: Semi-supervised Medical Image Segmentation with Bias Correction"

Jinhai Xiang, Yan Zhang, JiaKu Yu, Xinwei He, and Wen Zhang

B1839 "Empowering Cross-Patient Epilepsy Diagnosis from Diverse-Sampling Low-Quality EEG Signals"

Yanshen Sun, Jianger Yu, and Chang-Tien Lu

B1856 "Low-Resource Biomedical Event Detection Based on Semantic Matching and Meta Learning"

Yue Zuo, Lishuang Li, Jingyao Tang, Wanting Ning, Yuxiao Fei, and Jiayi Huang

B1883 "Dynamic HUMUS-Net for Accelerated MRI Reconstruction"

Jia-Yao He, Yu-Yang Xie, Lei Chen, Xuhua Yang, and Xiao-Xin Li

Short Papers:

B215 "CA-Diff: Collaborative Anatomy Diffusion for Brain Tissue Segmentation"

qilong xing, Yuteng Ye, Yuke Chen, Youjia Zhang, Na Feng, Junqing Yu, Zikai Song, and Wei Yang

B222 "XNet v2: Fewer Limitations, Better Results and Greater Universality"

Yanfeng Zhou, Lingrui Li, Zichen Wang, Guole Liu, Ziwen Liu, and Ge Yang

B236 "Spatial-Frequency Dual Domain Attention Network For Medical Image Segmentation"

Zhenhuan Zhou, Along He, Yanlin Wu, Rui Yao, Xueshuo Xie, and Tao Li

B242 "A Three-Step Framework for Automatically Registering Immunohistochemical and H&E Stained Whole Slide Images Targeting Clinical Applications"

Yingjia Yang, Yuan Wang, Cheng Li, Dehua Cao, Baochuan Pang, Hailian Xiao, Junfeng Wang, and Juan Liu

B246 "A Pyramidal Feature Selection and Translation Approach for Large Deformation Image Registration"

Yinghao Li, Zhiyuan Dong, Mengyuan Yao, Yue Liu, and Yusong Lin*

B249 "Leveraging Spatial-Temporal-Scale Augmentation to Assess Motor Abilities in Stroke Patients"

Weiwen Yang, Yingwei Zhang, Hai Liu, and Yiqiang Chen

B251 "SurgFC: Multimodal Surgical Function Calling Framework on the Demand of Surgeons"

Zhen Chen, Xingjian Luo, Jinlin Wu, Danny Chan, Zhen Lei, Sebastien Ourselin, and Hongbin Liu

B271 "AC-CAM: Affinity-Aware Contrast CAM for Weakly-Supervised Semantic Segmentation on MRI Brain Tumor"

Haili Wang, Jingqian Wu, Changwei Wang, Min Zhao, Duzhen Zhang, and Rongtao Xu

B274 "EEG-EMG FAConformer: Frequency Aware Conv-Transformer for the fusion of EEG and EMG"

ZhengXiao He, Minghong Cai, Letian Li, Siyuan Tian, and Renjie Dai

B278 "LKC-NET: A Liver and Tumor Segmentation Method based on Large Kernel Parallel Dilated Convolution"

Baitao Li, Xiaolong Zhang, Xiaoli Lin, He Deng, and Hongwei Ren

B289 "SeizureGuard: an adaptive fusion converter model for seizure predictio"

Wenxin Pan, Rong Zhu, Jinxing Liu, and Junliang Shang

B302 "Aligned Patch Calibration Attention Network for Few-Shot Medical Image Segmentation"

Shudong Wang, Hengtao Ding, Yawu Zhao, Zhiyuan Zhao, Xue Zhao, and Sibo Qiao

B303 "A Multi-Resolution Mutual Learning Network for Multi-Label ECG Classification"

Wei Huang, Ning Wang, Panpan Feng, Haiyan Wang, Zongmin Wang, and Bing Zhou

B306 "D-NAF: Dynamic Neural Attenuation Fields for 4D CBCT Reconstruction in Pulmonary Imaging"

Yuxuan Long, Tianling Lyu, Fan Rao, Peng Yuan, Yang Chen, and Wentao Zhu

B330 "Semi-Supervised Medical Image Segmentation based on Coarse-Fine Dual Training Streams"

Lizhi Sun, Yong Huang, Zhengyu Qiao, Boyu Yang, Xiaochen Li, and Qun Hao

B342 "A Multi-Label EEG Dataset for Mental Attention State Classification in Online Learning"

Huan Liu, Yuzhe Zhang, Guanjian Liu, Xinxin Du, Haochong Wang, and Dalin Zhang

B344 "MoGE: Mixture of Graph Experts for Cross-subject Emotion Recognition via Decomposing EEG"

Xuan-Hao Liu, Wei-Bang Jiang, Wei-Long Zheng, and Bao-Liang Lu

B348 "Buffer with Feature Tokens: Combating Confusion in Medical Image Continual Learning"

Zheming Fan, Weiting Chen, JiaHao Fan, and RuiZhi Yu

B355 "UWHeart: Periodicity-Driven Contact-free Heartbeat Rate Estimation Based on IR-UWB Technology"

Yang Cao, Yuhao Dai, Dongzi Wang, Zhengxin Guo, Linqing Gui, and Fu xiao

B357 "Integrating Imaging and Genetic Data via Wavelet Transform-based CNN for Alzheimer's Disease Classification"

Jinwang Feng, Yanmin Niu, Haowen Zhang, Lingzhi Yin, and Chunman Zuo

B369 "FEM-GNN: Feature Oriented End-to-End Multi-path Graph Neural Network for Autism Diagnosis"

Xinbei Zha, Jiaming Zhang, and Jin Gu

B379 "Cell DINO: End-to-End Cell Segmentation and Tracking with Transformer"

Wei Liao, Lei Luo, Changjian Wang, and Chunyuan Zhang

B382 "Polyp-E: Benchmarking the Robustness of Deep Segmentation Models via Polyp Editing"

Runpu Wei, Zijin Yin, Kongming Liang, Min Min, Chengwei Pan, Gang Yu, Haonan Huang, Yan Liu, and Zhanyu Ma

B390 "From Diagnosis to Solution: Probing the Dual Logic Ability of Privatized Medical-Domain LLMs"

Yanrui Du, Sendong Zhao, Muzhen Cai, Ming Ma, Danyang Zhao, Jiawei Cao, and Bing Qin

B398 "Generation of Lymphoma Ultrasound Image Captioning based on Large Vision-language Models"

Dehua Chen, Yuxiao Chen, and Jinyi Deng

B403 "DKINet: Medication Recommendation via Domain Knowledge Informed Deep Learning"

Sicen Liu, Xiaolong Wang, Xianbing Zhao, and Hao Chen

B408 "Enhancing Continual Learning for Medical Imaging: Efficient Knowledge Transfer and Multi-Disease Prediction"

Enzhi Wang, Qicheng Li, Shiwan Zhao, Di Liu, and Bo Yang

B416 "DistillMatch: Revisiting Self-Knowledge Distillation in Semi-Supervised Medical Image Segmentation"

Chunshi Wang, Bin Zhao, and Zhiyang Liu

B432 "Focus on Focus: Focus-oriented Representation Learning and Multi-view Cross-modal Alignment for Glioma Grading"

Li Pan, Yupei Zhang, Qiushi Yang, Tan Li, Xiaohan Xing, Maximus Yeung, and Zhen Chen

B433 "MDE-UNet: A Novel Model for Identifying Laryngeal Structures in Video Laryngoscope Images"

Jinjing Wu, Wenhui Guo, Miao Zhou, Long Liu, Haipo Cui, Zui Zou, and Zanheng Chen

B434 "GraphConvNet: A Dual Network Utilizing Local Features Coupled with Structural Information for Predicting Knee Osteoarthritis"

Pengju Tang, Dawei Dai, Kai Zou, Xionghui Yang, and Guoyin Wang

B436 "A Multimodal Deep Neural Network for Causally Learning Chest X-ray Images"

Qin Ma, Lin Zeng, Shikui Tu, and Lei Xu

B438 "Hierarchical Salient Patch Identification for Interpretable Fundus Disease Localization"

Yitao Peng, Lianghua He, and Die Hu

B443 "EyeGraphGPT: Knowledge Graph Enhanced Multimodal Large Language Model for Ophthalmic Report Generation"

Zhirui Wang, Xinlong Jiang, Chenlong Gao, Fan Dong, Weiwei Dai, Bingyu Wang, Bingjie Yan, Qian Chen, Wuliang Huang, Teng Zhang, and Yiqiang Chen

B451 "DGAA: Domain Generalization with Amplitude Alignment"

chuan xiong, Bin Zhao, and shuxue ding

B460 "M2Mamba: Multi-Scale in Multi-Scale Mamba for Blind Face Restoration"

Weidan Yan, Wenze Shao, and Dengyin Zhang

B464 "Artifact-aware Digital Subtraction Angiogram Image Generation for Head and Neck Vessels"

Yunbi Liu, Dong Du, Shengxian Tu, Wei Yang, Shiteng Suo, and Xiaoguang Han

B465 "Decoupling Feature Representations of Ego and Other Modalities for Incomplete Multi-modal Brain Tumor Segmentation"

Kaixiang Yang, Wenqi Shan, Xudong Li, Xuan Wang, Xikai Yang, Xi Wang, Pheng-Ann Heng, Qiang Li, and Zhiwei Wang

B469 "Domain Generalization with Data Generation and Feature Suppression for Medical Image Segmentation"

chuan xiong, Bin Zhao, and shuxue ding

B472 "Diffusion-driven Dual-flow Source-Free Domain Adaptation for Medical Image Segmentation"

Wei Zhou, Jianhang Ji, Wei Cui, Yugen Yi, and Yixin Chen

B479 "Document-level Biomedical Relation Extraction Based on Relation-guided Entity-level Graphs"

Liangyu Gao, Zhihao Yang, Haixin Tan, Lei Wang, Wei Liu, Yin Zhang, Ling Luo, Bo Xu, Jian Wang, Yumeng Yang, Zhehuan Zhao, Yuanyuan Sun, and Hongfei Lin

B485 "Adaptive Differential Privacy via Gradient Components in Medical Federated Learning"

Zechen Yu, Zhi Lu, Songfeng Lu, Yongquan Cui, Xueming Tang, and Junjun Wu

B504 "Integrating Low-order and High-order Functional Connectivity for Meta-stable State Transition based Brain Disorder Identification"

Shengbing Pei, Yan Wang, Fan He, Zhao Lv, Chao Zhang, and Jihong Guan

B510 "Polymorphic multi-head attention aggregation network for skin lesion segmentation"

Li Yu, Chaowei Chen, Wenwen Min, Che Zhao, and shunfang wang

B515 "MSSOrg: a multi-scale SSM-based model for organoid location and classification"

Xun Deng, Zhibing Li, Mei Gao, Shaolin Liang, Tianyu Sun, Zhipeng Shang, Yuhang Yang, Yafang Wei, Lun Hu, and Pengwei Hu

B522 "Biomedical Event Extraction as Semantic Segmentation"

Liangyu Gao, Zhihao Yang, Jinzhong Ning, Kai Ma, Lei Wang, Wei Liu, Yin Zhang, Ling Luo, Bo Xu, Jian Wang, Yumeng Yang, Zhehuan Zhao, Yuanyuan Sun, and Hongfei Lin

B527 "sEMG-based Gesture Recognition in Multiple Scenarios Using a Phase Locked Value-Based Deep Learning Method"

Xuezhe Zhang, Minjie Wang, Zihua Chen, Lu Wang, Hongbo Wang, and Xiaoyang Kang

B529 "Automatic Depression Detection Network Based on Facial Images and Facial Landmarks Feature Fusion"

Min Hu, Lingxiang Xu, Lei Liu, Xiaohua Wang, Hongbo Li, and Jiaoyun Yang

B532 "Split Learning Optimized For The Medical Field: Reducing Communication Overhead"

Shuai Guo, Zhi Lu, Songfeng Lu, Yongquan Cui, Xueming Tang, and Junjun Wu

B533 "Alifuse: Aligning and Fusing Multimodal Medical Data for Computer-Aided Diagnosis"

qiu hui chen and Yi Hong

B535 "Evidential Open Set Recognition for Imbalanced Medical Images via Multi-level Data Augmentation"

Rui-Wei Zhao, Yiqian Xu, Ying Zhang, and Rui Feng

B542 "Alignment of Chinese-English Medical Terminology in Small-Sample Scenarios: A Two-Stage Approach"

Qi Ye, Zicheng Yao, Peihong Hu, Xiang Ji, Tong Ruan, and Ruihui Hou

B563 "A Multi-Frequency Information Graph Representation for Graph Classification"

Da Li, Liting Wang, and Zhiyun Lin

B565 "A Multimodal Brain Tumor Segmentation Method: Parallel Fusion of Transformer and CNN"

Fang Zheng, Hang Zhou, Guoliang Li, and Fuchuan Ni

B568 "Mind the Gap: Promoting Missing Modality Brain Tumor Segmentation with Alignment"

Tianyi Liu, Zhaorui Tan, Haochuan Jiang, Xi Yang, and Kaizhu Huang

B571 "MambaDCTSleepNet: A DCT-Based Channel Attention Mamba Model for Automatic Sleep Stage Classification"

Xi Wu, Xinzhong Cui, Yongjie Duan, Zhao Bai, and Zhiying Long

B577 "High-precision 3D Facial Landmark Detection with Curvature-fused Graph Attention Network"

Juncheng Han, Yuping Ye, Di Wu, Shiyang Long, and Zhan Song

B579 "Pseudo Training Data Generation for Unsupervised Cell Membrane Segmentation in Immunohistochemistry Images"

Xi Long, Tianyang Wang, Yanjia Kan, Yunze Wang, Silin Chen, Albert Zhou, Xianxu Hou, and Jingxin Liu

B599 "Explainable Heterogeneous Graph Isomorphism Network Modeling Functional Brain Network in Autism Identification"

Sihong Yang, Dezhi Jin, and Ye He

B601 "ECG-LLM: Leveraging Large Language Models for Low-Quality ECG Signal Restoration"

Longfei Liu, Guosheng Cui, Cheng Wan, Dan Wu, and Ye Li

B606 "SMAFormer: Synergistic Multi-Attention Transformer for Medical Image Segmentation"

Fuchen Zheng, Xuhang Chen, Weihuang Liu, Haolun Li, Yingtie Lei, Jiahui He, Chi-Man Pun, and Shoujun Zhou

B614 "ADTAH: Neuron 3D Reconstruction Via Adaptive Distance Transformation and Adaptive Hessian Matrix"

Chenyue Song, Wei Zhang, Feng Jiang, Deqin Zheng, Ruichen Gao, and Haiqi Zhu

B618 "Auto-Sklong: A New AutoML System for Longitudinal Classification"

Simon Provost and Alex Freitas

B644 "SS-WSSS: Small-Scale Weakly Supervised Semantic Segmentation for Histopathology Image"

Jiatai Lin, Guoqiang Han, Jingxuan Zhou, Zhenwei Shi, Zaiyi Liu, and Chu Han

B651 "BAformer: Boundary Adaptive Transformer for Medical Image Segmentation"

Junlong Cheng, Jilong Chen, Lei Jiang, Chengrui Gao, Junren Chen, Ruoyu Li, and Min Zhu

B662 "MORF: Multi-View Oblique Random Forest for Hepatotoxicity Prediction"

Binsheng Sui, Qingzhuo He, Bowei Yan, Kunhong Liu, Yong Xu, Song He, and Xiaochen Bo

B663 "Solving Blind Inverse Problem in Microscopy: Diffusion-based Zero-shot Isotropic Reconstruction"

Hyun Jung Lee, Eunjung Jo, Minjoo Lim, Ji-Hye Oh, and Tae-Eui Kam

B664 "Speed-enhanced Subdomain Alignment for Long-term Stable Neural Decoding in Brain-computer Interfaces"

Jiyu Wei, Dazhong Rong, Xinyun Zhu, Qinming He, and Yueming Wang

B667 "SemiSAM: Enhancing Semi-Supervised Medical Image Segmentation via SAM-Assisted Consistency Regularization"

Yichi Zhang, Jin Yang, Yuchen Liu, Yuan Cheng, and Yuan Qi

B673 "Low-dose CT Denoising with Language-engaged Dual-space Alignment"

Zhihao Chen, Tao Chen, Chenhui Wang, Qi Gao, Chuang Niu, Ge Wang, and Hongming Shan

B674 "Bidirectional Multimodal Block-Recurrent Transformers for Depression Detection"

Xiangyu Jia, Xianbing Zhao, Buzhou Tang, and Ronghuan Jiang

B675 "CMCOQA: A Chinese Medical Complex Open-Question Answering Benchmark"

Zijian Li, Sendong Zhao, Haochun Wang, Haoming Xu, Bing Qin, and Ting Liu

B687 "CSSDM Ontology to Enable Continuity of Care Data Interoperability"

Subhashis Das, Debashis Naskar, Sara Rodríguez González, Juan Manuel Corchado Rodríguez, and Pamela Hussey

B697 "Boundary-Enhanced and Density-Guided Contrastive Learning for Semi/Weakly-Supervised Medical Image Segmentation"

MENG ZHOU, FEI GAO, and Raymond Kai-yu TONG

B703 "DM-GAN: A Data Augmentation-Based Approach for Imbalanced Medical Image Classification"

Hongwei Ding, Kuan Zhang, and Nana Huang

B711 "Learning Task-Level Pseudo-Text Prompt for Improved Medical Image Segmentation"

Zhu He, Yaru Liu, Guangjing Yang, Xueqi Bao, Yufei Chai, and Qicheng Lao

B713 "MixPolyp: Integrating Mask, Box and Scribble Supervision for Enhanced Polyp Segmentation"

Yiwen Hu, Jun Wei, Yuncheng Jiang, Haoyang Li, Shuguang Cui, Zhen Li, and Song Wu

B715 "A Dual-Branch Network for Accurate Retinal Vessel Segmentation Combining Cross-Domain Features"

Yutong Zhang, Jiang Zhong, and Qin Lei

B723 "Leveraging Pre-trained Models for FF-to-FFPE Histopathological Image Translation"

Qilai Zhang, Jiawen Li, Peiran Liao, Jiali Hu, Tian Guan, Anjia Han, and Yonghong He

B733 "A Scale-Aware Framework for Simultaneous Segmentation of Pancreas and Tumors"

Yong Zhang, Yi Wang, and Bin Fang

B735 "Extrapolating Prospective Glaucoma Fundus Images through Diffusion in Irregular Longitudinal Sequences"

Zhihao Zhao, Junjie Yang, Shahrooz Faghihroohi, Yinzhen Zhao, Daniel Zapp, Kai Huang, Nassir Navab, and M.Ali Nasseri

B743 "MedSegViG: Medical Image Segmentation with a Vision Graph Neural Network"

Xinhong Li, Geng Chen, Yuanfeng Wu, Junqing Yang, Tao Zhou, Yi Zhou, and Wentao Zhu

B758 "UniUSNet: A Promptable Framework for Universal Ultrasound Disease Prediction and Tissue Segmentation"

Zehui Lin, Zhuoneng Zhang, Xindi Hu, Zhifan Gao, Xin Yang, Yue Sun, Dong Ni, and Tao Tan

B764 "Visual Prompting Unsupervised Domain Adaptation for Medical Image Segmentation"

Ziru Lu, Yizhe Zhang, Yi Zhou, Geng Chen, and Tao Zhou

B768 "Respiratory Sounds Classification by Fusing the Time-Domain and 2D Spectral Features"

Gaoyang Dong, Jianhong Wang, Yufei Shen, Mingli Zhang, Minghui Zhang, and Ping Sun

B773 "Biomedically Informed ECG Synthesis: Customizing Cardiac Cycle Phases with Transformer-Based Hankelized Diffusion Model"

Yuxin Lin, Jing Ma, Wei Wang, Zhihao Wu, Suyu Dong, Gongning Luo, and Kuanquan Wang

B775 "Unsupervised Super-Resolution of Diffusion-Weighted Images via Deep Diffusion Prior"

Geng Chen, Yang Hao, Runlin Zhang, Musa Bakarr, Yong Xia, and Pew-Thian Yap

B777 "Subject Disentanglement Neural Network for Speech Envelope Reconstruction from EEG"

Li Zhang, Jiyao Liu, and Lei Xie

B781 "PGP: Prior-Guided Pretraining for Small-sample Esophageal Cancer Segmentation"

Qinglei Shi, Wenhan Duan, Wanyi Chen, Haotian Yang, Haochen Lu, Kecan Wu, Junxi Zhu, Juefei Yuan, Qiyan Ke, Andu Zhang, Xiang Wan, Changmiao Wang, Renzhi Wang, and Li Ruan

B788 "MR Image Quality Assessment via Enhanced Mamba: A Hybrid Spatial-Frequency Approach"

Yiwei Lou, Dexuan Xu, Rongchao Zhang, Jiayu Zhang, Yongzhi Cao, Hanpin Wang, and Yu Huang

B791 "Group Signature with Time-Bound Keys for Secure E-health Record Sharing"

Junze Lu, Chunqiang Hu, Conghao Ruan, Bin Cai, and Tao Xiang

B793 "ST-GCN: EEG Emotion Recognition via Spectral Graph and Temporal Analysis with Graph Convolutional Networks"

Chengchuang Tang, Liying Yang, Gang Cao, Jingtao Du, and Qian Zhang

B819 "Masked Modality Complementary Modeling for Brain Tumor Segmentation"

Jianwen Liang, Li Lin, Junyan Lyu, and Xiaoying Tang

B823 "TF-HiTNet: A Temporal-Frequency Hierarchical Transformer Network for EEG Motor Imagery Classification"

Chenxi Yue, Huawei Hu, Enze Shi, and Shu Zhang

B826 "A Progressively Prompt-guided Model for Sparse-View CT Reconstruction"

Jiajun Li, Qiao Mu, Xiaodong Li, Hu Chen, Wenchao Du, and Hongyu Yang

B828 "EdgeReg: Edge-assisted Unsupervised Medical Image Registration"

Jun Liu, Wenyi Wang, Wei Wang, Gongning Luo, Yacong Li, and Kuanquan Wang

B830 "Cross-chain Sharing of Personal Health Records: Heterogeneous and Interoperable Blockchains"

Yongyang Lv, Xiaohong Li, Yingwenbo Wang, Kui Chen, Zhe Hou, and Ruitao Feng

B832 "CE-UDA - A Cross-Modal Domain Adaptation Model for Cochlea and Vestibular Schwannoma Segmentation Based on Contour Enhancement"

Jiyun Li, Linxuan Feng, and Chen Qian

B833 "RoRankNet: Modeling Ordinal Progression in Alzheimer's Disease with Plackett-Luce Ranking and Hard Instance Learning"

Minghang Yu, Linlin Gao, Dan Wu, and Jianhua Wang

B834 "Tree Regularization for Visual Explanations of Cancer Cell Classification"

Muhammad Umair Raza, Adil Nawaz, Victor C.M. Leung, Jianqiang Li, and Jie Chen

B853 "TCM-FTP: Fine-Tuning Large Language Models for Herbal Prescription Prediction"

Xingzhi Zhou, Xin Dong, Chunhao Li, Yuning Bai, Yulong Xu, Ka Chun Cheung, Simon See, Xinpeng Song, Runshun Zhang, Xuezhong Zhou, and Nevin L. Zhang

B857 "FT-Mamba: A Novel Deep Learning Model for Efficient Tabular Regression"

Yongchang Chen, Yinning Liu, Guomin Chen, Qian Zhang, Yining Wu, and Jinxin Ruan

B875 "CFAH: A Chinese Dataset for Detecting False Advertising in Healthcare"

Weiru Fu, Junyu Lu, Youlin Wu, Guangtao Xu, Liang Yang, Hongfei Lin, Jian Wang, and Ruiyuan Wang

B884 "FairDD: Enhancing Fairness with domain-incremental learning in dermatological disease diagnosis"

Yiqin Luo and Tianlong Gu

B890 "UADSN: Uncertainty-Aware Dual-Stream Network for Facial Nerve Segmentation"

Guanghao Zhu, Lin Liu, Jing Zhang, Xiaohui Du, Ruqian Hao, and Juanxiu Liu

B901 "Cardiac MR Image Semantic Segmentation based on Joint Dual-stream CNNs"

Hengqi Hu, Bin Fang, and Mingliang Zhou

B903 "Predicting Gene Relations with a Graph Transformer Network Integrating DNA, Protein, and Descriptive Data"

Yibo Chen, Dong Xu, Richard Hammer, and Mihail Popescu

B925 "MGOD: Multi-Granular Outlier Detection with Clustlier Analysis"

Qingsheng Chen, Mingjie Zhao, Yuzhu Ji, Xiaopeng Luo, Yiqun Zhang, and Yue Zhang

B929 "Holistic and Historical Instance Comparison for Cervical Cell Detection"

Hao Jiang, Runsheng Liu, Yanning Zhou, Huangjing Lin, and Hao Chen

B931 "Obsessive Compulsive Disorder Diagnosis with Multiple Spatial Similarity-Aware Learning and Diffusion Structure-Aware Graph Convolutional Network"

Yu Liang, Cheng Zhao, Tianfu Wang, Ziwen Peng, Peng Yang, and Baiying Lei

B967 "Forecasting Influenza Like Illness based on White-Box Transformers"

Rujia Shen, Yaoxiong Lin, Boran Wang, Liangliang Liu, Yi Guan, and Jingchi Jiang

B973 "Self-attention-enhanced 3D Convolutional Dual-stream Pyramid Registration Neural Network"

Yunfei Yin, Zheng Yuan, Zhiwei Yuan, and Xianjian Bao

B974 "RUIFAF Net: Radiofrequency and Ultrasound Image Feature Attention and Fusion Network for Improved Breast Cancer Segmentation"

Zhenxu Wu, Bo Li, Huajun Zhou, Xun Lang, Bingbing He, X Allen Li, Yufeng Zhang, and Wenbing Lv

B981 "Shallow-Deep Synergy: Boosting Cross-Domain Generalization in Histopathological Image Segmentation"

Xiangyu Wang, Weiheng Su, Yuxing Dong, Yang Li, Xianli Zhang, Tieliang Gong, Ines Prata Machado, Mireia Crispin-Ortuzar, Chen Li, and Zeyu Gao

B986 "HCCL: Hierarchical Channels and Contrastive Learning for Drug-Gene Multi-Relation Prediction"

Yizhe Shang, Jianrui Chen, Xiujuan Lei, and Fang-xiang Wu

B987 "Are Large Language Models Possible to Conduct Cognitive Behavioral Therapy?"

Hao Shen, Zihan Li, Minqiang Yang, Minghui Ni, Yongfeng Tao, Zhengyang Yu, Weihao Zheng, Chen Xu, and Bin Hu

B997 "DeepVMIF: Deep Learning Based Volumetric Multiplex Immunofluorescence Image Analysis"

Duwei He, Qing Du, Zihan Yan, Hao Wang, and Xiaoyan Sun

B998 "BEFNet: A Hybrid CNN-Mamba Architecture for Accurate Skin Lesion Image Segmentation"

Wei Wang, Yuwen Luo, and Xin Wang

B1005 "Supervoxels-based Self-supervised Few-shot 3D Medical Image Segmentation via Multiple Features Transfer"

Jing Li, Yixuan Wu, Xiaorou Zheng, and Shoubin Dong

B1007 "SIRU-Net : Smoothing Inception Residual U-Net for Deformable Medical Image Registration"

Ahsan Raza Siyal, Astrid Ellen Grams, and Markus Haltmeier

B1012 "Segment Any Nuclei: A Prompt-free Segment Anything Model for Nuclei from Histology Image"

Xutao Sun, Junwen Liu, Yonggong Ren, Xiaolu Xu, and Yiqing Shen

B1030 "Monitoring and Intervention of Physiological Response Specific to Sleep Deprivation"

Hongmei Xu and Wanhui Wen

B1032 "Nitrous oxide therapy-induced changes in brain modules of treatment-resistant depression: a randomized controlled study"

Na Li, Ziyi Wang, Jun Huang, Shuting Sun, Jing Zhu, Xiaowei Li, and Bin Hu

B1034 "A novel feature alignment-based cell nucleus identification scheme for medical decision-making systems"

Fangfang Gou, Tingyi Dai, and Jia Wu

B1039 "PM2: A New Prompting Multi-modal Model Paradigm for Few-shot Medical Image Classification"

Zhenwei Wang, Qiule Sun, Bingbing Zhang, Weijian Su, Pengfei Wang, Jianxin Zhang, and Qiang Zhang

B1045 "Learning to Follow Frequency View Guidance for Dental CT Images Deblurring"

Jiangang Ding, Yiquan Du, Yihui Shan, Lili Pei, and Wei Li

B1059 "The Dual Path Multi-Feature Fusion Model combining CNN and Transformer for Age Estimation of *Caenorhabditis elegans*"

Mengqian Ding, Jun Liu, and Yang Luo

B1068 "Facial StO₂-based Stress Recognition using Automatic Graph Generation and Dual-Stream GNN"

Yingjuan Jia, Hanpu Wang, Xinyu Liu, and Tong Chen

B1072 "IBFNet: A Dual Auxiliary Branch Network for Multimodal Hidden Emotion Recognition"

Jianmeng Zhou, Xinyu Liu, Shiwei He, Mengyan Li, Huijie Gu, and Tong Chen

B1082 "BGDiff: Boundary-Guided Injection Diffusion Framework for Prostate Segmentation"

Jialong Zhong, Tingwei Liu, Miao Zhang, Yongri Piao, Weibing Sun, and Huchuan Lu

B1088 "LaGDif: Latent Graph Diffusion Model for Efficient Protein Inverse Folding with Self-Ensemble"

Taoyu Wu, Yu Guang Wang, and Yiqing Shen

B1105 "Detecting Thyroid Nodules along with Surrounding Tissues and Tracking Nodules using Motion Prior in Ultrasound Videos"

Song Gao, Yueyang Li, and Haichi Luo

B1121 "Counterfactual Trajectories Prediction for Features of Non-Communicable Disease"

Zhoujian Sun, Wenzhuo Zhang, Zhengxing Huang, and Cheng Luo

B1147 "HiGLDP: A Hierarchical Graph Neural Network for Predicting lncRNA-Disease Associations through Multi-Omic Integration"

Yongtian Wang, Zhiyuan Wang, and Yewei Shen

B1160 "Data Augmentation Techniques for Chinese Disease Name Normalization"

Wenqian Cui, Xiangling Fu, Shaohui Liu, Mingjun Gu, Xien Liu, Ji Wu, and Irwin King

B1189 "Information interconnection Harris hawks hybrid optimization algorithm"

Junyi Wei, Hongbin Dong, and Xiaoping Zhang

B1191 "Leveraging Spectrum to Enhance the Accuracy of Retinal Layer Segmentation"

Xiang He, Weiye Song, Fuwang Wu, Lizhen Cui, and Yi Wan

B1193 "Image2SignalNet: Image-based deep learning approach for capturing neuronal signals from calcium imaging"

Eunjung Jo, Dong-Hee Shin, Ji-Hye Oh, Sanghyeon Cho, Hyun Jung Lee, and Tae-Eui Kam

B1205 "A Regressor-Guided Graph Diffusion Model for Predicting Enzyme Mutations to Enhance Turnover Number"

Xiaozhu Yu, Kai Yi, Yu Guang Wang, and Yiqing Shen

B1209 "Temporal Gaussian Copula For Clinical Multivariate Time Series Data Imputation"

Ye Su, Hezhe Qiao, Di Wu, Yuwen Chen, and Lin Chen

B1217 "Leveraging CORAL-Correlation Consistency Network for Semi-Supervised Left Atrium MRI Segmentation"

Xinze Li, Runlin Huang, Zhenghao Wu, Bohan Yang, Wentao Fan, Chengzhang Zhu, and Weifeng Su

B1226 "CC-TTA: Correlation-coherent Test-time Adaptation for Single-source Domain Generalization in Medical Image Segmentation"

Xiaochen He, Baoyao Yang, and Fei Lyu

B1230 "Negative emotion recognition based on physiological signals using a CNN-LSTM model"

Junjiao Sun, Jorge Portilla, and Andres Otero

B1237 "CoMTAnet: An Enhanced Framework for Sleep Apnea Detection via Contrastive Multi-Temporal Respiratory Signal Analysis"

Zufang Huang and Kejing He

B1249 "A Digital Mammography and Digital Breast Tomosynthesis Combined Method for Breast Cancer Classification"

Zhendong Wang, Qiuyi Fu, Haowen Ma, Yueyi Yang, Ziteng Wang, Fuhua Yan, and Weimin Chai

B1264 "PA-LLaVA: A Large Language-Vision Assistant for Human Pathology Image Understanding"

Dawei Dai, Yuanhui Zhang, Long Xu, Qianlan Yang, Xiaojing Shen, Shuyin Xia, and Guoyin Wang

B1266 "Mamba-SAM: An Adaption Framework for Accurate Medical Image Segmentation"

Yifeng Wu, Xiaodong Zhang, Yang Sun, Lin Li, Fengjun Zhu, Dezhi Cao, and Jinping Xu

B1269 "Wavelet Multi-level Multi-scale Neural Network for EEG Classification"

Zhenghao Zhou, Yisu Wang, Fengming Zhao, and Ziyu Jia

B1270 "MIAD-MARK: Adversarial Watermarking of Medical Image for Protecting Copyright and Privacy"

Xingxing Wei, Bangzheng Pu, Chi Chen, and Huazhu Fu

B1276 "MTL-YOLO: A Multi-template Learning YOLO Method for Mitochondrial Damage Detection and Segmentation"

Buqing Cai and Xinsheng Wang

B1279 "Enhancing Cerebral Microbleed Segmentation with Pretrained UNETR++"

Junmo Kwon, Sang Won Seo, and Hyunjin Park

B1280 "MamMIL: Multiple Instance Learning for Whole Slide Images with State Space Models"

Zijie Fang, Yifeng Wang, Ye Zhang, Zhi Wang, Jian Zhang, Xiangyang Ji, and Yongbing Zhang

B1281 "A Novel RAG Framework with Knowledge-Enhancement for Biomedical Question Answering"

Yongping Du, Zikai Wang, Binrui Wang, Xingnan Jin, and Yu Pei

B1287 "SAvEM3: Pretrained and Distilled Models for General-purpose 3D Neuron Reconstruction"

Hao Zhai, Jinyue Guo, Yanchao Zhang, Jing Liu, and Hua Han

B1292 "A Dual-branch Self-supervised Learning Framework with Counterfactual Attention Learning for Histopathology Nuclei Segmentation"

Jiajun Tian, Hui Yu, Yansheng Wang, Zixuan Liang, and Yujuan Quan

B1298 "MSVM-UNet: Multi-Scale Vision Mamba UNet for Medical Image Segmentation"

Chaowei Chen, Li Yu, Shiquan Min, and shunfang wang

B1303 "Chinese Elderly Healthcare-Oriented Conversation: CareQA Dataset and Its Knowledge Distillation Based Generation Framework"

He Xiao, Xingjiao Wu, Jialiang Tong, Bangyan Li, and Yuling Sun

B1315 "RCNet: A Redundant Compression Network Using Information Bottleneck for Pathology Whole Slide Image Classification"

Hongxuan Yu, Jiayi Wu, Jichen Xu, Shuhao Wang, Wei Wang, Siyi Chai, and Jingmin Xin

B1325 "MINOR: A Multichannel Noise Reduction Learning Framework for Small Molecule-miRNA Association Prediction"

Zhixia Teng, Pengfei Ren, Benzhi Dong, and Shan Huang

B1331 "BEI-DETR: A Multimodal Remote Sensing Object Detection via Integrating EEG and Eye Movement"

Junfeng Huang, Mengyue Zhang, Min Wang, Gang Wang, Meixia Qu, Bin Jiang, and Qiang Guo

B1333 "ST-GF: Graph-based Fusion of Spatial and Temporal Features for EEG Motor Imagery Decoding"

Xuhui Wang, Kui Zhao, Enze Shi, Sigang Yu, Geng Chen, and Shu Zhang

B1342 "Data Constraints? Not anymore: Image-Only Learning with Cross-Institutional Applicability for Ultrasound Video Segmentation"

Zejie Yan and Chunyan Yu

B1343 "PresRecCD: A Novel Herbal Prescription Recommendation Framework with Cross-Domain Learning and Neural Collaborative Filtering"

Wansong Zhang, Xin Dong, Kuo Yang, Lei Zhang, Xinyu Wang, Rouye Huang, Runshun Zhang, and Xuezhong Zhou

B1347 "Enhancing Chest X-ray Diagnostics with Neighbor-assisted Multimodal Integration"

Chenjie Xu, Yang Pan, Bing Hu, Yang Zhang, Yi Hong, and Yang Yang

B1348 "Context-Aware Multi-Organ Segmentation in Abdominal CT via LoRA-Fine-tuned MedSAM"

Lihang Zeng, Zhenhong Liu, Xingce Wang, Zhongke Wu, Xiaodong Ju, Yi-Cheng Zhu, and Chong Zhang

B1349 "Enhancing 3D Transformer Segmentation Model for Medical Image with Token-level Representation Learning"

Xinrong Hu, Dewen Zeng, Yawen Wu, Xueyang Li, and Yiyu Shi

B1354 "TriSkullCom: Triplane Latent Diffusion Model for 3D Skull Shape Completion"

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

B1358 "ABLSpineLevelCheck: Localization of Vertebral Levels on Fluoroscopy via Semi-supervised Abductive Learning"

Junfeng Jiang, Lei Shuai, and Qiang Zeng

B1363 "BA-SAM: Boundary-Aware Adaptation of Segment Anything Model for Medical Image Segmentation"

Ying Chen, Xinyu Xiong, Huihui Fang, and Yanwu Xu

B1366 "FCTNet: EEG-based Functional Connectivity Topology Network for Mild Cognitive Impairment Detection"

Xiaorui Wang, Jiachen Gu, Jun Chen, Dongrui Gao, and Manqing Wang

B1376 "An Efficient Framework for Cross-Session EEG Classification Based on Harmony Search Common Spatial Pattern"

Xiao Li, Zhuowei Yang, Dingyin Hu, Hailong Huang, and Luyao Chen

B1378 "BECNN: Bias Field Estimation CNN Trained with a Dual Route Implicit Supervised Learning Strategy"

Shuaizheng Chen, Chaolu Feng, Wei Li, Jinzhu Yang, and Dazhe Zhao

B1382 "Enhancing Semantic Robustness by Fusing Lexical Annotation Information in Semantic Space"

Ying Jin, Lijuan Kuang, Jiahao Chen, Jianwen Liu, and Xianhua Dai

B1395 "D-SarcNet: A Dual-stream Deep Learning Framework for Automatic Analysis of Sarcomere Structures in Fluorescently Labeled hiPSC-CMs"

Huyen Le, Khiet Dang, Nhung Nguyen, Mai Tran, and Hieu Pham

B1405 "A Connectivity-Enhanced Multi-Task Learning based on Anatomical Priors for 3D Class-Balanced Pulmonary Airway Segmentation"

Yan Jia, Yong Dou, Peng Qiao, Yuqing Cheng, Kele Xu, and Zhouyu He

B1406 "Deformable registration framework for glioma images with absent correspondence based on auxiliary-image-aided intensity-consistency constraint"

Kun TANG, Lihui WANG, Menglong YANG, Jingwen XU, Xinyu CHENG, Jian ZHANG, Yuemin ZHU, and Hongjiang WEI

B1424 "Decoding White Matter Fiber ODFs: A Mixture Learning Framework in x-q Space"

Jiquan Ma, Chengdong Deng, Geng Chen, Haotian Jiang, Shijie Huang, Jaeil Kim, Xuyun Wen, and Dinggang Shen

B1426 "Memory-Guided Contrastive and Triplet Separation for Weakly-Supervised Disease Detection"

Jinwen She, Qiong Li, and Andy J. Ma

B1428 "MSDA-ACLDR: Multi-source Domain Adaptation Augmented Contrastive Learning with Dual-stream Representations for Emotion Recognition"

Yong Zhang, Xingxing Cai, Wenyun Chen, and Cheng Cheng

B1433 "Urinary Bladder Monitoring with a Wearable Device Based on Bioimpedance Measurements and Machine Learning"

Pascal Fechner, Anika Groß, Jannik Lockl, Maximilian Röglinger, and Niklas Tscheuschner

B1437 "Federated Semi-supervised Learning for Medical Image Segmentation with intra-client and inter-client Consistency"

Yubin Zheng, Peng Tang, Tianjie Ju, Hao Wang, Weidong Qiu, and Jagath Rajapakse

B1439 "PSACF: Parallel-Serial Attention-Based Cross-Fusion for Multimodal Emotion Recognition"

Yong Zhang, Yongqing Liu, and Cheng Cheng

B1446 "Leveraging Identity-Specific Facial Contours for Enhanced Heart Rate Estimation in Remote Photoplethysmography"

Dali Zhu, Wenli Zhang, Hualin Zeng, Xiaohao Liu, Long Yang, and Jiaqi Zheng

B1451 "Global-Local Brain Network based on Functional Connectivity for Individualized Prediction"

Yuanyuan Guo, Xin Wen, Yi Lei, Xiaobo Liu, Zhenqi Liu, and Rui Cao

B1455 "Enhancing Clinical Evidence Recommendation with Multi-Channel Heterogeneous Learning on Evidence Graphs"

Maolin Luo, Sen Ai, and Xiang Zhang

B1468 "YMamba: A Dual-Branch Network Fusing State Space Model and CNN for Medical Image Segmentation"

Guangzhe Zhao, Sihao Chen, Xueping Wang, Feihu Yan, and Maozu Guo

B1472 "CaulImputation: Utilizing Structural Causal Model in Data Imputation"

Yue Yin, Jiaoyun Yang, and Ning An

B1473 "A Tremor Evaluation Method for Retinal Injection Micro-needle by Microscopic Videos"

Yanlin Li, Rihui Song, Andi Xu, Haotian Lin, and Kai Huang

B1504 "Enhancing Multivariate Risk Prediction in Mental Health Using Ensemble Hybrid Models and Administrative Data with Irregular Intervals"

Faezehsadat Shahidi, M. Ethan MacDonald, Dallas Seitz, Rebecca Barry, and Geoffrey Messier

B1516 "Unsupervised M/EEG Representation Learning with Disentangled Equivariance Constraint"

Xingyuan Song, Qiong Li, Haokun Mao, and Yongdong Fan

B1518 "Flemme: A Flexible and Modular Learning Platform for Medical Images"

Guoqing Zhang, Jingyun Yang, and Yang Li

B1523 "FunduSAM: A Specialized Deep Learning Model for Enhanced Optic Disc and Cup Segmentation in Fundus Images"

Jinchen Yu, Yongwei Nie, Fei Qi, Wenxiong Liao, and Hongmin Cai

B1546 "SGX2CT: Self-part Guided 3D CT and Spine Model Reconstruction from Biplanar Lumbar X-rays"

Kaiyu Guo, Liang Zhao, Xiandi Wang, and Kang Li

B1554 "Affinity-Graph-Guided Contractive Learning for Pretext-Free Medical Image Segmentation with Minimal Annotation"

Zehua Cheng, Di Yuan, and Thomas Lukasiewicz

B1556 "Microstructure Estimation Using Synergistic Dual-path Hybrid Network"

Jiquan Ma, Jian Cao, Junqing Yang, Siqi Wang, and Geng Chen

B1564 "NarratingSleep: A Language Model-Based Framework for Sleep Staging"

Jiarong Wu, Yifei Yang, and Xingjun Wang

B1582 "A Tiny Efficient U-Net with Gated Linear Attention for Medical Image Segmentation"

Sibo Ju, Zhaozhen Chen, Xiangwen Liao, Yiqing Shen, Junjun He, and Yanzhou Su

B1604 "CLIP and image integrative prompt for anteriomediastinal lesion segmentation in CT image"

Su Huang, Hongwei Yu, Danni Ai, Guolin Ma, and Jian Yang

B1607 "A Diffusion Model Approach for Solving the Inverse Problem between Cardiac Electricalphysiology and Electrocardiograph"

Yuting Guo, Shuai Li, Dong Sui, Yuhang Chen, Yacong Li, and Luyao Chen

B1608 "FFC-Stereo: Stereo matching of binocular endoscopic images by Fast Fourier Convolution"

Wei Li, Ruoqi Lian, Huoling Luo, Weikai Qu, Wenjian Liu, and Fucang Jia

B1634 "Enhancing Biomedical NER with Adversarial Selective Training"

Qibin Li, Shengyuan Bai, Nai Zhou, and Nianmin Yao

B1638 "Multiple Optimization with Retrieval-Augmented Generation and Fine-Grained Denoising for Biomedical Event Causal Relation Extraction"

Jie Zhao, Lishuang Li, Wanting Ning, Jing Hao, Yuxiao Fei, and Jiayi Huang

B1642 "PaRCL: Pathology-aware Representation Contrastive Learning for Glaucoma Classification on Fundus Images"

Junyan Yi, Ying Zheng, Dayong Ding, Jianchun Zhao, and Gang Yang

B1645 "ImmuFold: High-Accuracy Antibody Structure Prediction with Efficient Network"

Shengyuan Bai, Zijing Liu, Jiying Zhang, and Yu Li

B1647 "Large Language Model in Medical Informatics: Direct Classification and Enhanced Text Representations for Automatic ICD Coding"

Zeyd Boukhers, AmeerAli Khan, Qusai Ramadan, and Cong Yang

B1652 "Classification of Keratitis from Eye Corneal Photographs using Deep Learning"

Maria Miguel Beirão, João Matos, Tiago Gonçalves, Camila Kase, Luis Filipe Nakayama, Denise de Freitas, and Jaime S. Cardoso

B1654 "Report-Guided Cross-Modal Representation Learning for Predicting EGFR Mutations by Whole Slide Image"

Qi Qiao, Jun Shi, Zhiguo Jiang, Wei Wang, Haibo Wu, and Yushan Zheng

B1680 "Multi-modal Diffusion Network with Controllable Variability for Medical Image Segmentation"

Haoyu Wang, Zheyu Zhang, Yueyi Zhang, Jing Zhang, Yunwei Ou, and Xiaoyan Sun

B1681 "DAResNet-ViT: A Novel Hybrid Network for the Early Diagnosis of Alzheimer's Disease Using Multi-View sMRI and Multimodal Analysis"

Yaozu Li, Donglin Xie, Jin-Xing Liu, Chunhou Zheng, and Xinchun Cui

B1704 "Strong Multimodal Representation Learner through Cross-domain Distillation for Alzheimer's Disease Classification"

Yulan Dai, Beiji Zou, Xiaoyan Kui, Qinsong Li, Wei Zhao, Jun Liu, and Miguel Bordallo López

B1706 "MAReraser: Metal Artifact Reduction with Image Prior Using CNN and Transformer Together"

Songwei Zheng, Dong Zhang, Chunyan Yu, Linghui Jia, Longlong Zhu, Zhanchao Huang, Danhong Zhu, and Hao Yu

B1710 "Multimodal Brain Signal Analysis with State-Space Modeling: A Study on Working Memory"

Wenhao Jiang, Qinglong Liu, Kaixuan Wang, Shihang Ding, Hongjian Bo, Cong Xu, Lin Ma, and Haifeng Li

B1723 "Identification of Depression-Related Electroencephalographic Patterns Using Astrocyte Spiking Neural Network"

Jing Fan, Junwen He, Yuhua Zheng, Hong-Yu Zhang, and Hui Peng

B1728 "Token2Token Top-k Vision Transformer for Low-dose CT Denoising"

Haolin Pao, Junpeng Liu, and Qingfeng Wu

B1740 "Trusted Multi-view Pancreatic Tumor Subtypes Diagnosis through Augmented Opinion"

Qiguang Huang, Yufei Chen, Yuqi Liu, Xiaodong Yue, and Chao Ma

B1741 "Edge-Enhanced Dilated Residual Attention Network for Multimodal Medical Image Fusion"

Meng Zhou, Yuxuan Zhang, Xiaolan Xu, Jiayi Wang, and Farzad Khalvati

B1743 "Knowledge-Infused Network with Diverse Sparsity and In-Context Learning for High-Dimensional Tabular Biomedical Data"

Ning Wang, Wenchao Gu, Minghui Wu, and Zongru Shao

B1749 "Hierarchical Retrieval of High-Resolution Fingerprints Based on Pore Feature"

Jing Ma, Yuanrong Xu, Suyu Dong, and Wei Wang

B1752 "Discrimination and Diagnosis of Hypertrophic Cardiomyopathy and Cardiac Amyloidosis via Unimodal Supervision Joint Contrastive Learning"

Xiaofeng Li, Hongmei Zhang, Xiaoxian Luo, Jiachen Dang, Lixue Yin, and Bo Peng

B1755 "Discovering a Biomechanical Prediction Model for Adolescent Idiopathic Scoliosis by Combining PINN with State Space Models"

Rui Lin and Junhua Zhang

B1761 "CTP-LLM: Clinical Trial Phase Transition Prediction Using Large Language Models"

Michael Reinisch, Jianfeng He, Chenxi Liao, Sauleh Siddiqui, and Bei Xiao

B1762 "The Impact of Dynamic Icons on Mobile APP Interfaces: Evidence from EEG and Eye-tracking Signals"

Ruizhe Yang, Jiaxuan Qin, Wenjie Hu, Letao Fang, Haojie Tao, Li Zhu, Xuanyu Jin, Yan Li, and Wanzeng Kong

B1767 "Comparisons on Perception Mechanism of Mental Rotation Between Health and Stroke Groups with EEG Indicators"

Lingmin Zhou, Li Zhu, Haibin Xia, Guifen Yang, Jiao Xu, Xuanyu Jin, and Wanzeng Kong

B1772 "MTL-SSU: A Multi-Task Self-Supervised Learning Framework for Epileptic Seizure Prediction"

Jionghao Lou, Jian Zhang, Zhongmei Li, and Enbo Feng

B1779 "Wavelet Transform-based Distribution Discrepancy Maximization for Medical Image Segmentation"

Kai Han, Jun Chen, Siqi Ma, Yuqing Song, Yonghan Lu, and Zhe Liu

B1793 "Classifier Retraining with Gaussian-distributed Prototypes for Class-Imbalanced Federated Medical Image Classification"

Haiwei Pan, Chunling Chen, Kejia Zhang, Zhe Li, and Fengming Yu

B1824 "Context-Aware Contrastive Representation Learning for Zero-Shot Biomedical Text Classification"

Ratri Mukherjee and Kishlay Jha

B1829 "Multi-modal Spatial Clustering for Spatial Transcriptomics Utilizing High-resolution Histology Images"

Bingjun Li, Mostafa Karami, Masum Shah Junayed, and Sheida Nabavi

B1832 "EEG Sequence Dependencies Learning With Fine-grained Sleep Transition Graph for Sleep Stage Classification"

Jingxin Liang, C.L. Philip Chen, Yuebin Xu, and Tong Zhang

B1845 "IBATree: A Novel Method for Interpretable Cancer Cell Diagnosis Using Information Bottleneck Attribution"

Muhammad Umair Raza, Adil Nawaz, Faisal Saeed, Victor C.M Leung, Jianqiang Li, and Jie Chen

B1860 "DeAFusion: Detail-Aware Image Fusion for Whitematter Hyperintensity Segmentation"

Gyeongdeok Jo, Jonghun Kim, Bo-yong Park, and Hyunjin Park

B1861 "Physicochemical Property-guided Conditional VAE for Antimicrobial Peptides Generation"

Kaijieyi Hou, Weizhong Zhao, and Tingting He

B1864 "Semi-supervised Choroidal Segmentation with Attention-based Refinement Contrastive Learning"

Wenyi Shang, Qingqing Tang, Teng Yin, Jingyu Liu, Yanfei Li, and Haixian Zhang

B1881 "CARE-EMRs: Efficient and Privacy-Preserving Data Sharing Framework for Electronic Medical Records"

Yu Tao, Lu Zhou, Yi Zhu, Yuhang Li, and Chunpeng Ge

B1891 "Interpretable Differencing Rules of Magnetoencephalography Decoding Models"

Yongdong Fan, Qiong Li, and Haokun Mao

B1893 "MedDet: Generative Adversarial Distillation for Cervical Disc Herniation Detection"

Zeyu Zhang, Nengmin Yi, Shengbo Tan, Ying Cai, Yi Yang, Lei Xu, Qingtai Li, Zhang Yi, Daji Ergu, and Yang Zhao