

## 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 wavefront 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 intERaction 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 "Thioprolin 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, Zhaohui 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, Xueting 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 "MTTSCL: protein subcellular localization prediction using multi-task learning"

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

B260 "DeepTAPE Enhancing Systemic Lupus Erythematosus Diagnosis with Deep Learning Based on TCR $\beta$  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, Shuoqi Gan, Feng Zhao, Zhentao Zuo, and Tiangang Zhou

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

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

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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

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Encheng Su, Hu Cao, and Alois Knoll

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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

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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

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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

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Xinlei Yu, Ahmed Elazab, Ruiquan Ge, Hui Jin, Xinchun 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

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

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

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Ziwen Wang

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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, Yuewen 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"

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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 StO<sub>2</sub>-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"

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Zufang Huang and Kejing He

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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

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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

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Yongping Du, Zikai Wang, Binrui Wang, Xingnan Jin, and Yu Pei

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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

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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"

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Xinrong Hu, Dewen Zeng, Yawen Wu, Xueyang Li, and Yiyu Shi

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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, Khiem 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"

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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

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Yanlin Li, Rihui Song, Andi Xu, Haotian Lin, and Kai Huang

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Xingyuan Song, Qiong Li, Haokun Mao, and Yongdong Fan

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Guoqing Zhang, Jingyun Yang, and Yang Li

B1523 "FunduSAM: A Specialized Deep Learning Model for Enhanced Optic Disc and Cup Segmentation in Fundus Images"

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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

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Sibo Ju, Zhaozhen Chen, Xiangwen Liao, Yiqing Shen, Junjun He, and Yanzhou Su



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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"

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Shengyuan Bai, Zijing Liu, Jiying Zhang, and Yu Li

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Zeyd Boukhers, AmeerAli Khan, Qusai Ramadan, and Cong Yang

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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, Bei Ji 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

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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"

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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

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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

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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

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Ratri Mukherjee and Kishlay Jha

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Muhammad Umair Raza, Adil Nawaz, Faisal Saeed, Victor C.M Leung, Jianqiang Li, and Jie Chen

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Zeyu Zhang, Nengmin Yi, Shengbo Tan, Ying Cai, Yi Yang, Lei Xu, Qingtai Li, Zhang Yi, Daji Ergu, and Yang Zhao