# Accepted Papers

| Paper ID | Regular Papers |
|---|---|
| B205 | Yun Zuo, Xiangrong Liu, and Xiangxiang Zeng, *Pm6A: an Integrated Classification Algorithm for Identifying m6A Sites* |
| B221 | Chen Li, Xin Luo, Wei Chen, Yulin He, Mingfei Wu, and Yusong Tan, *AttENT: Domain-Adaptive Medical Image Segmentation via Attention-Aware Translation and Adversarial Entropy Minimization* |
| B243 | Tao Peng, Jing Zhao, and Jing Wang, *Interpretable Mathematical Model-guided Ultrasound Prostate Contour Extraction Using Data Mining Techniques* |
| B292 | Justin Albert, Arne Herdick, Clemens Markus Brahms, Urs Granacher, and Bert Arnrich, *Using Machine Learning to Predict Perceived Exertion During Resistance Training With Wearable Heart Rate and Movement Sensors* |
| B299 | Yu-Jen Chen, Yen-Jung Chang, Shao-Cheng Wen, Yiyu Shi, Xiaowei Xu, Tsung-Yi Ho, Meiping Huang, Haiyun Yuan, and Jian Zhuang, *"One-Shot" Reduction of Additive Artifacts in Medical Images* |
| B304 | Shiqiang Ma, Xuejian Li, Jijun Tang, and Fei Guo, *MIASNet: A medical image segmentation method predicting future based on past and current cases* |
| B308 | keling Liu, Wenting Wu, Qiaozhen Zhang, Kun Cai, and Le Zhang, *Developing a visual Analysis Platform of Human Rabies for Hubei Province of China (VAP-HRHB)* |
| B312 | Xuehong Wu, Jianhua Li, Yaoping Fei, Junwen Duan, and Min Li, *nPTAS: A Novel Platform for Text Annotation and Service* |
| B315 | Hua Chen, Juan Liu, Chunbing Hua, Zhiqun Zuo, Jing Feng, Baochuan Pang, and Di Xiao, *TransMixNet: An Attenion Based Double-Branch Model for White Blood Cell Classification and Its Training with the Fuzzified Training Data* |
| B320 | Yuan Zhou and Hemant Tagare, *Self-normalized Classification of Parkinson's Disease DaTscan Images* |
| B323 | Yankai Jiang, Lei Zhang, Yiming Li, Xiangyang He, Hanxiao Huang, Keqing Zhu, Yubo Tao, and Hai Lin, *DeepNFT: Towards Precise Neurofibrillary Tangle Detection via Improving Multi-scale Feature Fusion and Adversary* |
| B330 | Shiqiang Ma, Xuejian Li, Zehua Zhang, Jijun Tang, and Fei Guo, *GEU-Net: Rethinking the information transmission in the skip connection of U-Net architecture* |
| B335 | Jian Liu, Zhi Qu, Yue Li, Jialiang Sun, and Yongzhuang Liu, *Ontology-based annotation and retrieval for large-scale VCF data* |
| B356 | Wenxuan Zou, Zhuojie Wu, Zijian Wang, Xingqun Qi, and Muyi Sun, *CoCo DistillNet: a Cross-layer Correlation Distillation Network for Pathological Gastric Cancer Segmentation* |
| B357 | Xiaohan Xing, Fan Yang, Hang Li, Jun Zhang, Yu Zhao, Mingxuan Gao, Junzhou Huang, and Jianhua Yao, *An Interpretable Multi-Level Enhanced Graph Attention Network for Disease Diagnosis with Gene Expression Data* |
| B365 | Xinlu Zhang, Shiyang Li, Zhuowei Cheng, Rachael Callcut, and Linda Petzold, *Domain Adaptation for Trauma Mortality Prediction in EHRs with Feature Disparity* |
| B366 | Vedant Vajre, Mitch Naylor, Uday Kamath, and Amarda Shehu, *PsychBERT: A Mental Health Language Model for Social Media Mental Health Behavioral Analysis* |
| B367 | Chen Jin, Zhuangwei Shi, Han Zhang, and Yanbin Yin, *Predicting lncRNA–protein interactions based on graph autoencoders and collaborative training* |
| B368 | Liangrui Pan, Peng Zhang, Boya Ji, Fei Xia, Chongcheawchamnan Mitchai, and Shaoliang Peng, *FEDI: Few-shot learning based on Earth Mover's Distance algorithm combined with deep residual network to identify diabetic retinopathy* |
| B369 | Yu Wang, Hui Wang, Meijie Hou, Yaojun Wang, Chunming Zhang, Chuncui Huang, and Shiwei Sun, *Glycan immunogenicity prediction based on Graph neural network* |
| B370 | Lishuang Li, Ruiyuan Lian, and Hongbin Lu, *Document-Level Biomedical Relation Extraction with Generative Adversarial Network and Dual-Attention Multi-Instance Learning* |

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| B372 | Hulin Kuang, Yixiong Liang, Ning Liu, Jin Liu, and Jianxin Wang, *BEA-SegNet: Body and Edge Aware Network for Medical Image Segmentation* |
| B378 | Haiping Zhang, Tingting Zhang, Konda Mani Saravanan, Linbu Liao, Hao Wu, Haishan Zhang, Huiling Zhang, Yi Pan, Xuli Wu, and Yanjie Wei, *A novel virtual drug screening pipeline with deep-leaning as core component identifies inhibitor of pancreatic alpha-amylase* |
| B398 | Ali Sekmen, Kamal Al Nasr, and Chrsitopher jones, *Subspace Modeling for Classification of Protein Secondary Structure Elements from Cα Trace* |
| B399 | Mengwei Sun, Yuqing Qian, Yijie Ding, Jijun Tang, and Quan Zou, *Membrane Protein Identification via Multi-view Graph Regularized k-Local Hyperplane Distance Nearest Neighbor Model* |
| B401 | Sisi Yang, Junzhong Ji, Xiaodan Zhang, Ying Liu, and Zheng Wang, *Weakly Guided Hierarchical Encoder-Decoder Network for Brain CT Report Generation* |
| B414 | Xiongjun Zhao, Yingjie Cheng, Weiming Xiang, Xiang Wang, Lin Han, Jiandong Shang, and Shaoliang Peng, *A Knowledge-aware Machine Reading Comprehension Framework for Dialogue Symptom Diagnosis* |
| B415 | Shanlin Lan, Chuan Zhou, Leiting Chen, Huqiu Fan, Ning Yan, and Yonghao Huang, *Automatic Report Generation based on Multi-modal and Multi-view model for Fundus Images* |
| B419 | Min Zeng, Nian Wang, Yifan Wu, Yiming Li, Fang-Xiang Wu, and Min Li, *Improving human essential protein prediction using only sequence-derived features via ensemble learning* |
| B434 | Qian Qiao, Ying-Lian Gao, Sha-Sha Yuan, and Jin-Xing Liu, *Robust Tensor Method Based on Correntropy and Tensor Singular Value Decomposition for Cancer Genomics Data* |
| B445 | Xin Wang, Jun Wang, Guoxian Yu, Beibei Xin, and Maozu Guo, *Maize Epistasis Detection by Multi-class Quantitative Multifactor Dimensionality Reduction* |
| B458 | Yonghao Huang, Chuan Zhou, Leiting Chen, Junjing Chen, and Shanlin Lan, *Medical Frequency Domain Learning: Consider Inter-class and Intra-class Frequency for Medical Image Segmentation and Classification* |
| B462 | Cui-Na Jiao, Jin-Xing Liu, Ying-Lian Gao, Xiang-Zhen Kong, Chun-Hou Zheng, and Xianzi Yu, *Sparse Hyper-graph Non-negative Matrix Factorization by Maximizing Correntropy* |
| B469 | Shuo Zhang, Changhuo Yang, Hong-Dong Li, and Jianxin Wang, *GraphIsoFun: a graph neural network based approach for splice isoform function prediction* |
| B470 | Chengcheng Sun and Haitao Jiang, *An approximation algorithm for unifying adjacencies by double cut and joins in unsigned genomes* |
| B473 | Cecheng Zhao, Hui Wang, Haitao Fu, Dong Wang, Yingjie Gao, Haotian Zhu, Wen Zhang, and Xiaohui Niu, *A robust drug representation learning model for eliminating cell specificity in gene expression profile and its application* |
| B475 | Xu Jin, MingMing Liu, WenQian He, Lin Wang, Ling Ma, YaLou Huang, and MaoQiang Xie, *Prioritizing Disease Genes via Multi-View Nonnegative Matrix Factorization with Layer-Wise Explicit Hierarchical Constraint* |
| B477 | Boya Ji, Jiawei Luo, Xiaolan Xie, and Shaoliang Peng, *DFL-PiDA: Prediction of Piwi-interacting RNA-Disease Associations based on Deep Feature Learning* |
| B485 | Haorui Wang, Shahanavaj Khan, Shichao Liu, and Wen Zhang, *Predicting Drug-miRNA Resistance with Layer Attention Graph Convolution Network and Multi Channel Feature Extraction* |
| B488 | Shilin Zhang, Bin Hu, Ji Bian, Mingzhe Zhang, and Xiangwei Zheng, *A Novel Emotion Recognition Method Incorporating MST-based Brain Network and FVMD-GAMPE* |
| B489 | Qingqing Zhu, Pengfei Wu, Zhouxing Tan, Jiaxin Duan, DongYan Zhao, and Junfei Liu, *Knowledge Distillation with Metric Learning for Medical Dialogue Generation* |
| B490 | Jiawei Luo, Zihan Lai, Cong Shen, Pei Liu, and Heyuan Shi, *Graph Attention Mechanism-based Deep Tensor Factorization for Predicting disease-associated miRNA-miRNA pairs* |
| B491 | Kushal Kodnad, Azade Tabaie, Joshua Rosenblum, and Rishikesan Kamaleswaran, *Predicting Same Hospital Readmission following Fontan Cavopulmonary Anastomosis using Machine Learning* |
| B505 | Zhirui Liao, Xiaodi Huang, Hiroshi Mamitsuka, and Shanfeng Zhu, *Drug3D-DTI: Improved Drug-target Interaction Prediction by Incorporating Spatial Information of Small Molecules* |

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| B513 | Jiechen Li, Xiangxiang Zeng, Yong Dou, Fei Xia, and Shaoliang Peng, *LADstackING: Stacking Ensemble Learning-based Computational Model for Predicting Potential LncRNA-disease Associations* |
| B514 | Fu Zhou, Fei Luo, Kafui EFIO-AKOLLY, Ronald BBOSA, Wen Cai Huang, Jia Ni Zou, Yi Ping Phoebe Chen, and Feng Liu, *HAUNet-3D: a Novel Hierarchical Attention 3D UNet for Lung Nodule Segmentation* |
| B518 | Wei Li, Han Zhang, Qingqing Zhao, Jian Liu, and Yanbin Yin, *Adversarial Dual-Channel Variational Graph Autoencoder for Synthetic Lethality Prediction in Human Cancers* |
| B525 | Chenchen Li, Jin Zhao, Haodi Feng, and Daming Zhu, *TransCoord: Genome-guided Transcripts Assembly by Coordinating Candidate Paths into Two-phased Linear Programming* |
| B526 | Mingliang Dou, Jijun Tang, and Fei Guo, *Document-level DDI relation extraction with document-entity embedding* |
| B534 | Yaning Yang, Xiaoqi Wang, Ying Xu, Chao Yang, Bin Jiang, and Shaoliang Peng, *ParaPindel: a scalable coordinated parallel detection framework for human genome-wide structural variation* |
| B539 | Zhuang Li, Jingyan Qin, Haiyan Gong, Xiaotong Zhang, and Yadong Wan, *Enhancing the generalization of feature construction using genetic programming for imbalanced data with augmented non-overlap degree* |
| B546 | Boheng Cao, Shikui Tu, and Lei Xu, *Flexible-CLmser: Regularized Feedback Connections for Biomedical Image Segmentation* |
| B549 | Xuyun Wen and Daoqiang Zhang, *A Multi-Layer Random Walk Method for Local Dynamic Community Detection in Brain Functional Network* |
| B553 | Xijie Lin, Yonghui Xu, Wei Guo, Yuan Li, Wei He, Honglu Zhang, Lizhen Cui, and Chunyan Miao, *Personalized Clinical Pathway Recommendation via Attention Based Pre-training* |
| B554 | Juan Trelles Trabucco, Pengyuan Li, Cecilia Arighi, Daniela Raciti, Hagit Shatkay, and G. Elisabeta Marai, *ANIMO: Annotation of Biomed Image Modalities* |
| B560 | Yu Han, Honggang Qi, Yan Liu, Zhijun Guo, Qian Xu, Qiang Lin, Haitao Liu, Junying Lu, Fei Liang, Wenqiu Feng, and Haiyan Li, *Efficient False Positive Reduction Method for Early Pulmonary Nodules Detection in Physical Examination* |
| B561 | Cole Lyman, Matthew Morris, Spencer Richman, Hongbao Cao, Antony Scerri, Chris Cheadle, and Gordon Broderick, *High Fidelity Modeling of Pulse Dynamics using Logic Networks* |
| B565 | Qingqing Zhu, Zhouxing Tan, Jiaxin Duan, Pengfei Wu, DongYan Zhao, and Junfei Liu, *Dynamic Curriculum Learning with Co-training for Medical Dialogue Generation* |
| B573 | Md Selim, Jie Zhang, Baowei Fei, Guo-Qiang Zhang, and Jin Chen, *CT Image Harmonization for Enhancing Radiomics Studies* |
| B576 | Wodan Ling, Youran Qi, Xing Hua, and Michael Wu, *Deep ensemble learning over the microbial phylogenetic tree (DeepEn-Phy)* |
| B591 | Yunfei Hu, Sanidhya V Mangal, Lu Zhang, and Xin Zhou, *An ensemble deep learning framework to refine large deletions in linked-reads* |
| B592 | Zhenlan Liang, Ruiqing Zheng, Siqi Chen, Xuhua Yan, and Min Li, *DeepCI: a deep learning based clustering method for single cell RNA-seq data* |
| B597 | Ying Zou, Shannan Chen, Qiule Sun, Bin Liu, and Jianxin Zhang, *DCET-Net: Dual-Stream Convolution Expanded Transformer for Breast Cancer Histopathological Image Classification* |
| B599 | Ying An, Haojia Zhang, Jianxin Wang, Yu Sheng, and Xianlai Chen, *MAIN: Multimodal Attention-based Fusion Networks for Diagnosis Prediction* |
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| B612 | Omar Ibrahim, Sunyang Fu, Maria Vassilaki, Ronald Petersen, Michelle Mielke, Jennifer Sauver, and Sunghwan Sohn, *Early Alert of Elderly Cognitive Impairment using Temporal Streaming Clustering* |
| B616 | Guozhen Hu, Qinjian Zhang, Zhi Yang, and Baobin Li, *Accurate Brain Age Prediction Model for Healthy Children and Adolescents using 3D-CNN and Dimensional Attention* |
| B619 | Shuchen Li, Wei Wang, and Jieyue He, *KGAPG: Knowledge-Aware Neural Group Representation Learning for Attentive Prescription Generation of Traditional Chinese Medicine* |
| B623 | Muhammad Zubair Khan, Yugyung Lee, Arslan Munir, and Muazzam Ali Khan, *Multi-Feature Extraction with Ensemble Network for Tracing Chronic Retinal Disorders* |

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| B627 | Bin Quan, Manli Yang, Xia Li, Qinqun Chen, Guiqing Liu, Jiaming Hong, Zhifeng Hao, Li Li, and Hang Wei, *Research on the Design of Active Learning Algorithm based on Query-by-Committee for Intelligent Fetal Monitoring* |
| B634 | Guihua Tao, Haojiang Li, Lizhi Liu, and Hongmin Cai, *Detection-and-Excitation Neural Network Achieves Accurate Nasopharyngeal Carcinoma Segmentation in Multi-modality MR Images* |
| B636 | Shuo Zhang, xiaoli lin, and Xiaolong Zhang, *Discovering DTI and DDI by Knowledge Graph with MHRW and Improved Neural Network* |
| B646 | Yongqing Zhang, Zixuan Wang, Yuhang Liu, Libo Lu, Xiaoyao Tan, and Quan Zou, *Multi-omics based hybrid neural networks for prediction and interpretation of transcription factor binding sites* |
| B650 | Xiaowei Wang, Jungang Han, Ben Li, Xiaoying Pan, and Hui Xu, *Automatic ICD-10 Coding Based on Multi-Head Attention Mechanism and Gated Residual Network* |
| B656 | Lanju Kong, Xiaolin Song, Qingqing Yin, and Qingzhong Li, *OO-LSTM : A trusted medical transfers prediction model with on-chain and off-chain data fusion* |
| B659 | Xin Zhang, Yipeng Hao, Jin Zhang, Shihong Zou, Songyun Xie, and Lei Du, *Improved Multi-task SCCA for Brain Imaging Genetics via Joint Consideration of the Diagnosis, Parameter Decomposition and Network Constraints* |
| B660 | Qiang Li, Hong Song, Jingfan Fan, Danni Ai, Yucong Lin, and Jian Yang, *CC-DenseUNet: Densely Connected U-Net with Criss-Cross Attention for Liver and Tumor Segmentation in CT Volumes* |
| B662 | Jin Liu, Xu Tian, Jianxin Wang, Rui Guo, and Hulin Kuang, *MTFIL-Net: automated Alzheimer's disease detection and MMSE score prediction based on feature interactive learning* |
| B666 | Yao-zhong Zhang, Kiyoshi Yamaguchi, Sera Hatakeyama, Yoichi Furukawa, Satoru Miyan, Rui Yamaguchi, and Seiya Imoto, *On the application of BERT models for nanopore methylation detection* |
| B668 | Weiming Xiang, Dong Chen, Yingbo Cui, and Shaoliang Peng, *H-VAE: A Hybrid Variational AutoEncoder with Data Augmentation in Predicting CRISPR/Cas9 Off-target* |
| B680 | Chunyu Wang, Yan Zhu, Naifeng Wen, Lingling Zhao, and Junjie Wang, *SeqGO-CPA: Improving Compound-Protein Binding Affinity Prediction with Sequence Information and Gene Ontology Knowledge* |
| B682 | Hehuan Ma, Yu Rong, Boyang Liu, Yuzhi Guo, Chaochao Yan, and Junzhou Huang, *Gradient-Norm Based Attentive Loss for Molecular Property Prediction* |
| B683 | Pan Zhang, Shuangjia Zheng, Jianwen Chen, Yaoqi Zhou, and Yuedong Yang, *DeepANIS: Predicting antibody paratope from concatenated CDR sequences by integrating bidirectional long-short-term memory and transformer neural networks* |
| B685 | Yihang Bao, Weixi Wang, Minglong Dong, Fei He, and Han Wang, *Discover the Binding Domain of Transmembrane Proteins Based on Structural Universality* |
| B690 | Tiansu Gong, Fusong Ju, Dongbo Bu, and Shiwei Sun, *SA-Net: Building protein 3D structure directly from inter-residue distances using spatial-aware self-attention* |
| B693 | Lingzhi Zhu, Guihua Duan, Cheng Yan, and Jianxin Wang, *Identifying virus-receptor interactions through matrix completion with similarity fusion* |
| B694 | Dayun Liu, Yi Luo, Jingjing Zheng, Hanlin Xu, Jiaxuan Zhang, and Lei Deng, *GCNSDA: Predicting snoRNA-disease associations via graph convolutional network* |
| B700 | Tian Bai, Shenyao Liu, Yuzhao Wang, Yu Wang, and Dong Dong, *Self-Ensembling Semi-Supervised Model for Bone X-ray Images Landmark Detection* |
| B701 | Hailong Jin, Wei Du, Jiawei Gu, Tianhao Zhang, and Xiaohu Shi, *Combining GCN and Bi-LSTM for Protein Secondary Structure Prediction* |
| B702 | Yu Zhao, Yidan Zhang, Zhi-An Huang, Fan Yang, Lei Duan, and Jianhua Yao, *Mining the Associations between V(D)J Gene Segments and COVID-19 Disease Characteristics* |
| B705 | Nana Wang, Chunjie Luo, Yunyou Huang, and Jianfeng Zhan, *Ensemble Clustering-based Cervical Spondylosis Fine-classification* |
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| B712 | Xuecong Jiang, Lulu Wang, Zhongshi He, and Jinglong Du, *Learning a Frequency Separation Network with Hybrid Convolution and Adaptive Aggregation for Low-dose CT Denoising* |

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| B714 | Yang Guo, Yuanbo He, Shuai Li, Ting Shu, and Luying Gao, *Global Correlation and Local Geometric Information Coupled Channel Contrast Learning for Thyroid Nodule Risk Stratification* |
| B715 | Pengyue Lin, Wen Yang, Siyuan Xia, Yu Jiang, Xiaoning Liu, and Guohua Geng, *CFR-GAN: A Generative Model for Craniofacial Reconstruction* |
| B717 | Chao Deng, Cui-Xiang Lin, and Hong-Dong Li, *Improving the Prediction of Disease-associated Genes by Integrating Annotated Gene Sets* |
| B722 | Siyuan Shen, Yurong Qian, Junyi Liu, Jingjing Zheng, and Lei Deng, *Accurately Predicting circRNA-disease Associations Using Variational Graph Auto-encoders and LightGBM* |
| B724 | Fei Xu, Lingli Lin, Dihan Li, Qingqi Hong, Kunhong Liu, Qingqiang Wu, Qingde Li, Yinhuan Zheng, and Jie Tian, *A Multi-Resolution Deep Forest Framework with Hybrid Feature Fusion for CT Whole Heart Segmentation* |
| B738 | Yingze Xu, Yan Wang, Xuping Xie, Feilong Wang, Qiong Chen, and Huiyan Sun, *An AutoEncoder-Based Matrix Factorization Approach to Estimating Cell Proportion from Bulk Tumor RNA-seq Data* |
| B747 | Yan Li, Shasha Liu, Chunwei Wu, Xidong Xi, Guitao Cao, and Wenming Cao, *DCFG: Discovering Directional CounterFactual Generation for Chest X-rays* |
| B748 | Hongyan Quan, Jiashun Dong, and Xiaoxiao Qian, *Med-3D: 3D Reconstruction of Medical Images based on Structure-from-Motion via Transfer Learning* |
| B749 | shuaiYing Yuan, Ziyang He, Jianhui Zhao, and Zhiyong Yuan, *Low-Dimensional Depth Local Dual-View Features Embedded Transformer for Electrocardiogram Signals Quality Assessment* |
| B752 | Yurong Qian, Jingjing Zheng, Zhe Zhang, Ying Jiang, Jiaxuan Zhang, and Lei Deng, *CMIVGSD: circRNA-miRNA Interaction Prediction Based on Variational Graph Auto-Encoder and Singular Value Decomposition* |
| B754 | Yawei Li, Qingyun Liu, Zexian Zeng, and Yuan Luo, *Unsupervised clustering analysis reveals global population structure of SARS-CoV-2* |
| B756 | Jiamin Chen, Jianliang Gao, Tengfei Lyu, Babatounde Moctard Oloulade, and Xiaohua Hu, *Multi-label Metabolic Pathway Prediction with Auto Molecular Structure Representation Learning* |
| B763 | Cheng Chen, Yuguo Zha, Daming Zhu, Kang Ning, and Xuefeng Cui, *Hydrogen bonds meet self-attention: all you need for general-purpose protein structure embedding* |
| B764 | Sajida Raz Bhutto, Yifan Wu, Ying Yu, Akhtar Hussain Jalbani, and Min Li, *A Hybrid Pooling Based Deep Learning Framework For Automated ICD Coding* |
| B765 | Wenjing Zhang, Yuting Tan, and Fang-Xiang Wu, *Single Cell Clustering with Sparse Similarity Matrix Learning* |
| B772 | Wutao Yin, Longhai Li, and Fang-Xiang Wu, *A graph attention neural network for diagnosing ASD with fMRI data* |
| B776 | Qihong Jiao, Zongzhao Qiu, Yuxiao Wang, Cheng Chen, Zhenghe Yang, and Xuefeng Cui, *Edge-Gated Graph Neural Network for Predicting Protein-Ligand Binding Affinities* |
| B777 | Yuxiao Wang, Zongzhao Qiu, Qihong Jiao, Cheng Chen, Zhaoxu Meng, and Xuefeng Cui, *Structure-Based Protein-Drug Affinity Prediction with Spatial Attention Mechanisms* |
| B779 | Swati Padhee, Kimberly Swygert, and Ian Micir, *Exploring Language Patterns in a Medical Licensure Exam Items as Support For Test Validity Evidence* |
| B781 | Senlin Lin, Xuekun Song, Ziheng Xu, Xinyue Zhang, Yinqing Lin, Rui Zhang, Yulong Chen, Fa Zhang, Dehui Qiu, Yuling Zheng, and Xiaohua Wan, *Moment Invariants with Data Augmentation for Tongue Image Segmentation* |
| B783 | Cheng Chen, Zongzhao Qiu, Zhenghe Yang, Bin Yu, and Xuefeng Cui, *Jointly Learning to Align and Aggregate with Cross Attention Pooling for Peptide-MHC Class I Binding Prediction* |
| B784 | Zongzhao Qiu, Qihong Jiao, Yuxiao Wang, Cheng Chen, Daming Zhu, and Xuefeng Cui, *rzMLP-DTA: gMLP network with ReZero for sequence-based drug-target affinity prediction* |
| B786 | Yanping Zeng, Xuhua Yan, Zhenlan Liang, Ruiqing Zheng, and Min Li, *MKG: a mutual information based method to infer single cell gene regulatory network* |
| B791 | Matthew Kirchhof, Christopher Cameron, and Stefan Kremer, *End-to-end chromosomal compartment prediction from reference genomes* |
| B792 | Xiang Yue, Xinliang Frederick Zhang, Ziyu Yao, Simon Lin, and Huan Sun, *CliniQG4QA: Generating Diverse Questions for Domain Adaptation of Clinical Question Answering* |

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| B793 | Syed Fahad Sultan, Lilianne Mujica-Parodi, and Steven Skiena, *NeuroPredictome: A Data-Driven Predictome Linking Neuroimaging to Phenotype* |
| B795 | Weizhong Zhao, Huyen Le, James Chen, Hesha Duggirala, Richard Forshee, Taxiarchis Botsis, Henry Francis, Huixiao Hong, Weida Tong, Yi-Ting Hwang, and Wen Zou, *Discovering Drug-Drug Associations in the FDA Adverse Event Reporting System Database with Data Mining Approaches* |
| B810 | Yiqing Zhao, Michael Ison, and Yuan Luo, *COVID Vaccine and Cardiovascular Risks: A Natural Language Analysis of Vaccine Adverse Event Reports* |
| B821 | Nan Zhang, Junlin Hou, Rui-Wei Zhao, Rui Feng, and Yuejie Zhang, *Semi-supervised Medical Image Segmentation with Distribution Calibration and Non-local Semantic Constraint* |
| B825 | Jiatong Liu, Changbin Pan, Dongdong Chen, WeiPing Lin, Shangyuan Feng, Sufang Qiu, and KunHong Liu, *FES-RF: A Feature Ensemble Selection Based Random Forest Method For Accurate Cancer Screening* |
| B830 | Fei He, Joshua Thompson, Ziting Mao, Yijie Ren, Yulia Nussbaum, Olha Kholod, Dmitriy Shin, Mark Hannink, Mihail Popescu, and Dong Xu, *Identifying Genes and Their Interactions from Pathway Figures and Text in Biomedical Articles* |
| B835 | Feng Xiao, Cong Shen, Yu Chen, Tian Yang, Shengyong Chen, Zhijun Liao, and Jijun Tang, *RCGA-Net: An Improved Multi-hybrid Attention Mechanism Network in Biomedical Image Segmentation* |
| B840 | Song Yu, Hanlin Xu, Yizhan Li, and Lei Deng, *LGCMDS: Predicting miRNA-Drug Sensitivity based on Light Graph Convolution Network* |
| B846 | Yurong Qian, Qihua He, and Lei Deng, *iPiDA-GBNN:Identification of Piwi-interacting RNA-disease associations based on gradient boosting neural network* |
| B849 | Haojiang Tan, Sichao Qiu, Jun Wang, Guoxian Yu, Wei Guo, and Maozu Guo, *Genome-Phenome Association Prediction by Deep Factorizing Heterogeneous Molecular Network* |
| B857 | Lei Xu, Jin Liu, Hulin Kuang, Jianhong Cheng, Fan Wu, and Jianxin Wang, *ARSC-Net: Adventitious Respiratory Sound Classification Network Using Parallel Paths with Channel-Spatial Attention* |
| B860 | Zhilong Lv, YueXiao Lin, Rui Yan, Zhenghe Yang, Ying Wang, and Fa Zhang, *PG-TFNet: Transformer-based Fusion Network Integrating Pathological Images and Genomic Data for Cancer Survival Analysis* |
| B863 | Bojing Li, Duo Zhong, Xingpeng Jiang, and Tingting He, *TopoPhy-CNN: Integrating the Topological Information of Phylogenetic Tree for Host Phenotype Prediction From Metagenomic Data* |
| B866 | Shilong Zhang, Yue Tang, Jing Yan, Linye Li, Tong Li, Jixiang Li, Peilin Xie, Yuanshuai Gu, Jiakang Xu, Wen Zhang, Zaiwen Feng, Jingbo Xia, Wolfgang Mayer, Hongyu Zhang, Guangcun He, and Keqing He, *A Graph-based Approach for Integrating Biological Heterogeneous Data Based on Connecting Ontology* |
| B867 | Sheng Chen, Sen Zhang, Xiongjun Li, Yubao Liu, and Yuedong Yang, *SEGEM: a Fast and Accurate Automatic Protein Backbone Structure Modeling Method for Cryo-EM* |
| B868 | Chi Zhang, Hongjia Li, Xiaohua Wan, Xuemei Chen, Zhenghe Yang, Jieqing Feng, and Fa Zhang, *TransPicker: A Transformer-based Framework for Particle Picking in Cryo-EM Micrographs* |
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| B879 | Fuchang Han, Shenghui Liao, Chao Xiong, Haitao Wei, Renzhong Wu, and Yingqi Zhang, *Explainable Prediction of Whether The Acetabular Cup Is Placed in The "Safe Zone" from X-ray Images* |
| B894 | Haoran Liu, Mingchao Shang, Huaxiang Zhang, and Cheng Liang, *Cancer Subtype Identification based on Multi-view Subspace Clustering with Adaptive Local Structure Learning* |
| B895 | Sandun Rajapaksa, Dinithi Sumanaweera, Maria Garcia de la Banda, Peter Stuckey, David Abramson, Lloyd Allison, Arthur Lesk, and Arun Konagurthu, *On identifying statistical redundancy at the level of amino acid subsequences* |
| B898 | Yao Zhao, Weizhong Zhao, Xingpeng Jiang, Tingting He, and Bianping Su, *An improved RL-based framework for mutilple biomedical event extraction via self-supervised learning* |
| B902 | Yingpei Wu and Yanchun Zhang, *A Hybrid-scales Graph Contrastive learning Framework for Discovering Regularities in Traditional Chinese Medicine Formula* |
| B914 | Zheng Chen, Ziwei Yang, Ming Huang, Naoaki Ono, MD Altaf-Ul-Amin, and Shigehiko Kanaya, *A Lightweight Sleep-Rhythms Based Staging Model with Mix Deep Neural Networks* |

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| B922 | Deeptanshu Jha, Samantha La Marca, and Rahul Singh, *Identifying and Characterizing Opioid Addiction States Using Social Media Posts* |
| B927 | Wenbo Ge, Deborah Apthorp, Christian Lueck, and Hanna Suominen, *Which features of postural sway are effective in distinguishing Parkinson's disease patients from controls? An experimental investigation* |
| B929 | Lan Huang, Hongrui Guan, Yanchun Liang, Xiaoyue Feng, and Renchu Guan, *COVID-19 Knowledge Graph for Drug and Vaccine Development* |

| Paper ID | Short Papers |
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