

2023 IEEE International Conference on Bioinformatics and Biomedicine
(BIBM 2023)

The conference schedule is based on Istanbul Time
December 5-8, 2023
Istanbul, Turkey.

Registration Desk Location & Hours: Crystal Ballroom Foyer

Dec 5: 3:00-8:00PM

Dec 6 8:00AM- 5:00PM

Dec 7: 8:00AM-5:00PM

Dec 8: 8:00AM-2:00PM

Meeting Room, Restaurant	Floor
Globe Restaurant	M1
MR 21	M2
MR 22	M2
MR 23	M2
MR 24	M2
MR 25A	M2
MR 25B	M2
MR 20	M2
MR 19	M2
MR 18	M2
MR 17	M2
MR 5	M3
MR 3	MR3

Time	December 5, 2023
8:30am-12:30noon	<p>Workshops</p> <p>WS#1. The 4th International Workshop on Machine Learning for EEG Signal Processing (MLESP 2023) (MR21)</p> <p>WS#6. The 7th International Workshop on Deep Learning in Bioinformatics, Biomedicine, and Healthcare Informatics (DLB2H 2023) (Online)</p> <p>WS#8. Machine Learning and Artificial Intelligence in Bioinformatics and Medical Informatics (MABM2023) (MR23)</p> <p>WS#14. Workshop on challenges and opportunities in Network Medicine and Multi-Omics bioinformatics' approaches for studying human complex disease (MR25A)</p> <p>WS#16. The 14th Integrative Data Analysis in Systems Biology (IDASB 2023) (MR25B)</p> <p>WS#19. Artificial Intelligence Based Multimodal Medical Diagnosis (MR20)</p> <p>WS#21. Artificial Intelligence Techniques for BioMedicine and HealthCare (MR19)</p> <p>WS#25. 2023 CBEAS - Computational Microbial Biofilm Engineering and Applications workshop (2023 CBEAS) (MR18)</p>
Coffee Break (10:00-10:20am)	Coffee (M2 Foyer)
Lunch Break	Lunch (12::20pm – 2:00pm) at your own
Afternoon Sessions I (2:00pm-6:30pm)	<p>Workshops</p> <p>WS#1. The 4th International Workshop on Machine Learning for EEG Signal Processing (MLESP 2023) (MR21)</p> <p>WS#3. 3rd Biomedical Informatics Applications in Translational Research and Rare Diseases (Online)</p> <p>WS#6. The 7th International Workshop on Deep Learning in Bioinformatics, Biomedicine, and Healthcare Informatics (DLB2H 2023) (Online)</p> <p>WS#8. Machine Learning and Artificial Intelligence in Bioinformatics and Medical Informatics (MABM2023) (MR24)</p> <p>WS#12. 2nd Workshop on Foundations of Network Analysis (MR20)</p> <p>WS#16. The 14th Integrative Data Analysis in Systems Biology (IDASB 2023) (MR25A)</p> <p>WS#17. Seventh Edition of Workshop of Processes and Algorithms for Healthcare and Life Quality Improvement (CBPBL 2023) (MR25B)</p> <p>WS#21. Artificial Intelligence Techniques for BioMedicine and HealthCare (MR19)</p> <p>WS#22. Artificial Intelligence & Big Data vs Pandemics (MR18)</p> <p>WS#25. 2023 CBEAS - Computational Microbial Biofilm Engineering and Applications workshop (2023 CBEAS) (MR17)</p> <p>WS#27. Affective Computing and Health Care: new research and industrial perspectives (Affective-Health 2023) (Online)</p>
Coffee Break (4:00-4:20pm)	Coffee (M2 Foyer)

Time	December 6
8:30-8:45am	<p>Opening Ceremony</p> <p>Nitin Agarwal, Reda Alhadj, Uffe Kock Wiil, Xingpeng Jiang, Mufti Mahmud, Nadia Pisanti, Haiying Wang, Xiaohua Tony Hu</p> <p>Location: Crystal Ballroom</p>
Keynote Sessions (8:45-9:45am)	<p>Keynote Talk: Prof. Guido Sanguinetti</p> <p>Title: Machine learning methods for single-cell ‘omic data</p> <p>Chair: Jane Zheng</p> <p>Location: Crystal Ballroom</p>
Coffee Break (9:45-10:00am)	<p>Coffee (Crystal Ballroom Foyer)</p>
Morning Sessions (10:00am-12:00pm)	<p>Session 1: Bioinformatics and Computational Biology of Molecular Structure, Function and Evolution (1)(MR21)</p> <p>Session 2: Computational Systems Biology (1) (MR22)</p> <p>Session 3: Next Generation Sequencing and High-throughput Methods (1) (MR23)</p> <p>Session 4: Cheminformatics and pharmacogenomics (1) (MR24)</p> <p>Session 5: Cross-Cutting Computational Methods and Bioinformatics of Disease (1) (MR25A)</p> <p>Session 6: Cross-Cutting Computational Methods and Bioinformatics of Disease (2) (MR25B)</p> <p>Session 7: Biomedical and Health Informatics (1) (MR20)</p> <p>Session 8: Biomedical and Health Informatics (2) (Crystal Ballroom)</p>
8:30-12:30pm Workshop	<p>WS#1. The 4th International Workshop on Machine Learning for EEG Signal Processing (MLESP 2023) (MR18)</p> <p>WS#5. Net-AI-BHI The 2nd Workshop on Network Science and Artificial Intelligence for Biomedicine & Health Informatics. (Net-AI-BHI 2023) (MR17)</p> <p>WS#8. Machine Learning and Artificial Intelligence in Bioinformatics and Medical Informatics (MABM2023) (MR5)</p> <p>WS#9. 14th International Workshop on High Performance Bioinformatics and Biomedicine (HiBB-2023) (MR3)</p> <p>WS#11. The 10th International Workshop on High Performance Computing on Bioinformatics (MR19)</p>

Lunch Break	Lunch provided by Conference (12:30pm – 2:00pm) Location: Globe Restaurant
Afternoon Sessions I (2:00pm-4:00pm)	<p>Session 9: Bioinformatics and Computational Biology of Molecular Structure, Function and Evolution (2)(MR21)</p> <p>Session 10: Computational Systems Biology (2) (MR22)</p> <p>Session 11: Next Generation Sequencing and High-throughput Methods (2) (MR23)</p> <p>Session 12: Cheminformatics and pharmacogenomics (2) (MR24)</p> <p>Session 13: Cross-Cutting Computational Methods and Bioinformatics of Disease (3) (MR25A)</p> <p>Session 14: Cross-Cutting Computational Methods and Bioinformatics of Disease (4) (MR25B)</p> <p>Session 15: Biomedical and Health Informatics (3) (MR20)</p> <p>Session 16: Biomedical and Health Informatics (4) (Crystal Ballroom)</p> <p>WS#1. The 4th International Workshop on Machine Learning for EEG Signal Processing (MLESP 2023) (MR18)</p> <p>WS#8. Machine Learning and Artificial Intelligence in Bioinformatics and Medical Informatics (MABM2023) (MR5)</p> <p>WS#10. 4th Workshop on High Performance Computing Methods and Interdisciplinary Applications for Fighting the COVID-19 Pandemic (HPC4COVID-19 (MR17)</p> <p>WS#15. The 7th Workshop on Computational Methods for the Immune System Function (MR19)</p> <p>WS#20. 2023 Workshop on Artificial Intelligence for Biomarker Discovery (AI4BD 2023) (MR3)</p>
Coffee Break (4:00-4:15pm)	Coffee (M2 Foyer)
Afternoon Sessions II (4:15pm-6:00pm)	<p>Session 17: Bioinformatics and Computational Biology of Molecular Structure, Function and Evolution (3)(MR21)</p> <p>Session 18: Computational Systems Biology (3) (MR22)</p> <p>Session 19: Cross-Cutting Computational Methods and Bioinformatics of Disease (5) (MR23)</p> <p>Session 20: Cross-Cutting Computational Methods and Bioinformatics of Disease (6) (MR24)</p> <p>Session 21: Cross-Cutting Computational Methods and Bioinformatics of Disease (7) (MR25A)</p> <p>Session 22: Cross-Cutting Computational Methods and Bioinformatics of Disease (8) (MR25B)</p> <p>Session 23: Biomedical and Health Informatics (5) (MR20)</p> <p>Session 24: Biomedical and Health Informatics (6) (Crystal Ballroom)</p> <p>WS#1. The 4th International Workshop on Machine Learning for EEG Signal Processing (MLESP 2023) (MR18)</p> <p>WS#8. Machine Learning and Artificial Intelligence in Bioinformatics and Medical Informatics (MABM2023) (MR5)</p> <p>WS#10. 4th Workshop on High Performance Computing Methods and Interdisciplinary Applications for Fighting the COVID-19 Pandemic (HPC4COVID-19 (MR17)</p> <p>WS#15. The 7th Workshop on Computational Methods for the Immune System Function (MR19)</p> <p>WS#20. 2023 Workshop on Artificial Intelligence for Biomarker Discovery (AI4BD 2023) (MR3)</p>

Time	December 7
Keynote Sessions (8:45-9:45am)	Keynote Talk: Prof. Xing-Ming Zhao Title : AI driven exploration of Microbiome Chair: Xingpeng Jiang <u>Location:</u> Crystal Ballroom
Coffee Break (9:45-10:00am)	Coffee (Crystal Ballroom Foyer)
Morning Sessions (10:00am-12:00pm)	Session 25: Cross-Cutting Computational Methods and Bioinformatics of Disease (9)(MR21) Session 26: Cross-Cutting Computational Methods and Bioinformatics of Disease (10)(MR22) Session 27: Biomedical and Health Informatics (7)(MR23) Session 28: Biomedical and Health Informatics (8)(MR24) Session 29: Biomedical and Health Informatics (9) (MR25A) Session 30: Biomedical and Health Informatics (10) (MR25B) Session 31: Biomedical and Health Informatics (11) (Crystal Ballroom) Session 32: Biomedical and Health Informatics (12) (MR20)
8:30-12:30pm Workshops	WS#4. Workshop on Long Non-Coding RNAs: Mechanism, Function, and Computational Analysis (BIBM-LncRNA 2023) (MR19) WS#5. Net-AI-BHI The 2nd Workshop on Network Science and Artificial Intelligence for Biomedicine & Health Informatics. (Net-AI-BHI 2023) (MR18) WS#13. Machine Learning for Biological and Medical Image Big Data (MR17) WS#23. 13th International Workshop on Biomedical and Health Informatics (MR5) WS#26. The 14th International Workshop on Information Technology for Chinese Medicine (ITCM 2023) (MR3)
Lunch Break	Lunch provided by conference (12:30pm – 2pm) Location: Globe Restaurant
Afternoon Sessions I (2:00pm-4:00pm)	Session 33: Cross-Cutting Computational Methods and Bioinformatics of Disease (11)(MR21) Session 34: Cross-Cutting Computational Methods and Bioinformatics of Disease (12) (MR22) Session 35: Cross-Cutting Computational Methods and Bioinformatics of Disease (13) (MR23) Session 36: Biomedical and Health Informatics (13) (MR24) Session 37: Biomedical and Health Informatics (14) (MR25A) Session 38: Biomedical and Health Informatics (15) (MR25B) Session 39: Biomedical and Health Informatics (16) (Crystal Ballroom) Session 40: Biomedical and Health Informatics (17) (MR20)

	<p>WS#4. Workshop on Long Non-Coding RNAs: Mechanism, Function, and Computational Analysis (BIBM-LncRNA 2023) (MR19)</p> <p>WS#13. Machine Learning for Biological and Medical Image Big Data (MR17)</p> <p>WS#23. 13th International Workshop on Biomedical and Health Informatics (MR5)</p> <p>WS#26. The 14th International Workshop on Information Technology for Chinese Medicine (ITCM 2023) (MR3)</p>
	<p style="text-align: center;">Cruise Boat Tour and Banquet (4:30--9pm)</p> <p style="text-align: center;">Banquet Keynote speech</p> <p style="text-align: center;">Keynote Talk: Dr. Xiao-Zhong James Luo</p> <p style="text-align: center;">Title: The NHLBI Trans-omics for Precision medicine Program (TOPMed) – Stimulate innovative scientific discovery through multi-Omics and Inter-disciplinary approach</p> <p style="text-align: center;">Chair; Xiaohua Tony Hu</p> <p style="text-align: center;">Location: Tour Boat</p> <p>The tour company will arrange transportation from the conference hotels to the boat and then send the participants back to the hotels after the banquet</p>

Time	December 8
Keynote Sessions (8:45-9:45am)	Keynote Talk: Prof. Atilla Gürsoy Title: Unveiling complexity of signaling pathway and disease associations: Constructing and Exploring 3D Protein Interaction Networks Chair: Reda Alhajj <u>Location:</u> Crystal Ballroom
Coffee Break (9:45-10:00am)	Coffee (Crystal Ballroom Foyer)
Morning Sessions (10:00am-12:00pm)	Session 41: Biomedical and Health Informatics (18) (MR21) Session 42: Biomedical and Health Informatics (19) (MR22) Session 43: Biomedical and Health Informatics (20) (MR23) Session 44: Biomedical and Health Informatics (21) (MR24) Session 45: Biomedical and Health Informatics (22) (MR25A) WS#23. 13th International Workshop on Biomedical and Health Informatics (MR20) WS#26. The 14th International Workshop on Information Technology for Chinese Medicine (ITCM 2023) (MR19)
Lunch Break	Lunch provided by the conference (12:30 – 2pm) Location: Globe Restaurant
Afternoon Sessions I (2:00pm-4:00pm)	Session 46: Biomedical and Health Informatics (23) (MR21) Session 47: Biomedical and Health Informatics (24) (MR22) Session 48: Biomedical and Health Informatics (25) (MR23) Session 49: Biomedical and Health Informatics (26) (MR24) Session 50: Biomedical and Health Informatics (27) (MR25A) WS#23. 13th International Workshop on Biomedical and Health Informatics (MR20) WS#26. The 14th International Workshop on Information Technology for Chinese Medicine (ITCM 2023) (MR19)

December 6: Morning Sessions (10am-12am)

Session 1: Bioinformatics and Computational Biology of Molecular Structure, Function and Evolution (1)

Chair: Yan Yan

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R	B2082 "Improved Approximation Algorithms for Sorting Unsigned Genomes by Reversals" Chengcheng Sun and Haitao Jiang
R	B366 "AIPPT: Predicts anti-inflammatory peptides using the most characteristic subset of bases and sequences by stacking ensemble learning strategies" ruiqi liu, xiuhao fu, Shankai Yan, Zilong Zhang, and Feifei Cui
R	B583 "Multimodal-AIR-BERT: A Multimodal Pre-trained Model for Antigen Specificity Prediction in Adaptive Immune Receptors" Yang Xiao, Yueshan Huang, Yu Zhao, Fan Xu, Qin Ren, Bing He, Jianhua Yao, and Xiao Liu
R	B320 "PESI: Paratope-Epitope Set Interaction for SARS-CoV-2 Neutralization Prediction" Zhang Wan, Zhuoyi Lin, Shamima Rashid, Shaun Yue-Hao Ng, Rui Yin, Jayavelu Senthilnath, and Chee-Keong Kwoh
S	B599 "scHi-CNN: a Computational Method for Statistically Significant Single-cell Hi-C Chromatin Interactions with Nearest Neighbors" Chanaka Bulathsinghalage and Lu Liu
S	B1074 "Inference of subgenomes resulting from polyploid events using synteny based dynamic linking and maximum neighbourhood" Thulani Hewavithana, Chu Shin Koh, Avleen Kaur, Raymond Spiteri, Isobel Parkin, and Lingling Jin
S	B1702 "Genotype-to-Phenotype Associations with Frequented Region Variants" Indika Kahanda, Buwani Manuweera, Brendan Mumey, Thiruvarangan Ramaraj, Alan Cleary, and Joann Mudge

Session 2: Computational Systems Biology (1)

Chair: Shengzhi Lai

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R	B393 "Integrating Multi-omics Data into A Gated Graph Convolutional Networks for Identifying Cancer Driver Genes and Function Modules" Qianqian Peng, Zhihan He, Shichao Liu, Xinzhi Yao, and Jingbo Xia
R	B554 "CLPiDA: A Contrastive Learning Approach for Predicting Potential PiRNA-Disease Associations" Xiaowen Hu, Yuanpeng Zhang, Jiaxuan Zhang, and Lei Deng
R	B490 "DeepEAG: A deep learning-based hybrid framework for identifying epilepsy-associated genes using a stacking strategy" Junfeng Xie, Dafang Zhang, and Wei Li
S	B645 "Combining Tags of Various Lengths Benefits Peptide Identification in Bottom-up Proteomics" Shengzhi Lai, Ning Li, and Weichuan Yu
S	B929 "IRPRI: An immune-related prognostic risk indicator for patients with lymphatic invasive colon cancer" Yue Liu, Yang Hu, and Yadong Wang
S	B264 "A multi-granularity information-enhanced pre-training method for predicting the coding potential of sORFs in plant lncRNAs" Shihao Xia, Jun Meng, Zhaowei Wang, Yu Wang, Haibin Li, Zhaojing Qin, and Yushi Luan

Session 3: Next Generation Sequencing and High-throughput Methods (1)

Chair: Xingpeng Jiang

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R	B608 "PMMVar: Leveraging Multi-level Protein Structures for Enhanced Coding Variant Pathogenicity Prediction" Yijia Chen, Yiwen Chen, Shanling Nie, and Hai Yang
R	B650 "Data-driven trait heritability-based extraction of human facial phenotypes" Meng Yuan, Seppe Goovaerts, Hanne Hoskens, Stephen Richmond, Susan Walsh, Mark D. Shriver, John R. Shaffer, Mary L. Marazita, Seth M. Weinberg, Hilde Peeters, and Peter Claes
R	B496 "GROD: Joint Inference of Gene Regulatory Networks and Data Imputation in Single-Cell RNA Sequencing with Temporal Consideration" Jiayi Dong and Fei Wang
S	B641 "A deep graph convolution network with attention for clustering scRNA-seq data" Xiang Chen, Junnan Yu, Li Peng, and Min Li
S	B741 "Comprehensive evaluation of RNA-seq alignment methods based on long-read sequencing data" Yadong Liu, Zhenhao Lu, Zhongyu Liu, Hongzhe Guo, Yadong Wang, and Tao Jiang
S	B2111 "Minimize Maximum Coverage of Fragment Alignment Selection" Yuyang Wang, Haodi Feng, Haitao Jiang, and Daming Zhu
S	B413 "GRAIGH: Gene Regulation accessibility integrating GeneHancer database" Lorenzo Martini, Roberta Bardini, Alessandro Savino, and Stefano Di Carlo

Session 4: Cheminformatics and pharmacogenomics (1)

Chair: Zhongnan ZHANG

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R	B377 "Integrative Drug Discovery Platform: A Modular Approach for Efficient and Automated Virtual Screening" Tianci Li, Lulu Xie, Zhonghai Zhang, Xu Li, Bo Duan, Gang Niu, Shiwei Sun, Fa Zhang, Runting Zhang, Guangming Tan, and Chunming Zhang
R	B965 "Causal Intervention for Measuring Confidence in Drug-Target Interaction Prediction" Wenting Ye, Chen Li, Yang Xie, Wen Zhang, Hongyu Zhang, Bowen Wang, Debo Cheng, and Zaiwen Feng
R	B535 "Subtype-DCGCN: an unsupervised approach for cancer subtype diagnosis based on multi-omics data" Yabin Kuang and Minzhu Xie
S	B379 "TF-DTA: A Deep Learning Approach Using Transformer Encoder to Predict Drug-Target Binding Affinity" WENJUN LI, YIQIANG ZHOU, and XIWEI TANG
S	B976 "Enhancing Drug Repositioning through Contrast Learning and Denoised Negative Sampling" Kunyu Ni, Rongkang Xu, Yu Huang, and Xiaomei Wei
S	B997 "Generating Molecules Conditional on 3D Protein Pockets Hypergraph with HGNN" Qinglian Zhu, Xiaoli Lin, and Xiaolong Zhang

Session 5: Cross-Cutting Computational Methods and Bioinformatics of Disease (1)

Chair: Julio Facelli

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R	B257 "Selecting Heterogeneous Features Based on Unified Density-Guided Neighborhood Relation for Complex Biomedical Data Analysis" Lang Zhao, Yiqun Zhang, Xiaopeng Luo, Yue Zhang, Yiu-ming Cheung, and Kangshun Li
R	B290 "Predicting miRNA-disease associations based on graph convolutional network with path learning" Shuang Chu, Guihua Duan, and Cheng Yan

R	B636 "Identifying Main and Epistasis Effects of Genetic Variations on Neuroimaging Phenotypes Using Effective Feature Interaction Learning" Jin Zhang, Qiang Xie, Muheng Shang, Duo Xi, Minjianan Zhang, Lei Guo, and Lei Du
S	B249 "Adaptive Semi-Supervised Learning from Stronger Augmented Transformations of Medical Texts" Xuemiao Zhang and Junfei Liu
S	B275 "Decoupling MIL Transformer-based Network for Weakly Supervised Polyp Detection" Hantao Zhang, Risheng Xie, Shouhong Wan, and Peiquan Jin
S	B916 "Imputing time-series microbiome abundance profiles with diffusion model" Misato Seki, Yao-zhong Zhang, and Seiya Imoto
S	B457 "Harnessing Transfer Learning for Dementia Prediction: Leveraging Sex-Different Mild Cognitive Impairment Prognosis" Ziming Liu, Muskan Garg, Sunyang Fu, Surjodeep Sarkar, Maria Vassilaki, Ronald Petersen, Jennifer Sauver, and Sunghwan Sohn

Session 6: Cross-Cutting Computational Methods and Bioinformatics of Disease (2)

Chair: Kivanc Kok

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R	B833 "TS-DDD: A Two-Stage Training Strategy for Dialogue-based Disease Diagnosis" Tianbao Zhang, Huiying Cao, Shi Feng, Yuan Cui, and Daling Wang
R	B577 "Improving VTE Identification through Adaptive NLP Model Selection and Clinical Expert Rule-based Classifier from Radiology Reports" Jamie Deng, Yusen Wu, Hilary Hayssen, Brain Englum, Aman Kankaria, Minerva Mayorga-Carlin, Shalini Sahoo, John Sorkin, Brajesh Lal, Yelena Yesha, and Phuong Nguyen
R	B769 "HyperScore: A unified measure to model hypertension progression using multi-modality measurements and semi-supervised learning" Mohamad Alkhodari, Winok Lapidaire, Zhaohan Xiong, Turkay Kart, Yasser Iturria-Medina, Leontios Hadjileontiadis, Ahsan Khandoker, Adam Lewandowski, Abhirup Banerjee, and Paul Leeson
R	B2019 "Ulcerative Colitis Mayo Endoscopic Scoring Classification with Active Learning and Generative Data Augmentation" Ümit Mert Çağlar, Alperen İnci, Oğuz Hanoğlu, Görkem Polat, and Alptekin Temizel
S	B2027 "Interpretable Graph Convolutional Network for Alzheimer's Disease Diagnosis using Multi-Modal Imaging Genetics" Houliang Zhou, Yu Zhang, Lifang He, Li Shen, and Brian Chen
S	B2045 "Active Learning Framework for Cost-Effective TCR-Epitope Binding Affinity Prediction" Pengfei Zhang, Seojin Bang, and Heewook Lee

Session 7: Biomedical and Health Informatics (1)

Chair: Mehmet Kaya

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R	B1024 "A Transformer-based Patient Clustering Method in Continuing Care Retirement Communities" Zhenggui Xiang
R	B288 "Coarse-to-fine Knowledge Graph Domain Adaptation based on Distantly-supervised Iterative Training" Wenxiong Liao, Zhengliang Liu, Yiyang Zhang, Xiaoke Huang, Fei Qi, Siqi Ding, Hui Ren, Zihao Wu, Haixing Dai, Sheng Li, Lingfei Wu, Ninghao Liu, Quanzheng Li, Tianming Liu, Xiang Li, and Hongmin Cai
R	B318 "Latent space feature representation on multiple biological network for synthetic lethality interaction prediction" Jinxin Li, Xinguo Lu, Kaibao Jiang, Daoxu Tang, Fengxu Sun, and Jingjing Ruan

S	B1004 "SEDGCN: Sentiment Enhanced Dual Graph Convolutional Networks for Detecting Adverse Drug Reactions" yunzhi qiu, xiaokun zhang, weiwei wang, youlin wu, bo xu, and Hongfei Lin
S	B232 "CSNet: Colonic Polyp Segmentation for Assisted Diagnosis in Colonoscopy" Jianbo Zhu, Zhaoxu Han, Zhimin Chang, Mingfeng Ge, Ruoqian Gao, and Wenfei Dong
S	B726 "ScribblePolyp: Scribble-Supervised Polyp Segmentation through Dual Consistency Alignment" Zixun Zhang, Yuncheng Jiang, Jun Wei, Hannah Cui, and Zhen Li

Session 8: Biomedical and Health Informatics (2)

Chair: Bingjun Li

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R	B700 "Histopathological Cancer Detection with Topological Signatures" Ankur Yadav, Faisal Ahmed, Ovidiu Daescu, Reyhan Gedik, and Baris Coskunuzer
R	B340 "Learn, Unlearn and Relearn: An Online Learning Model for EEG Emotion Recognition" Gang Cao, Liying Yang, Yang Tian, and Jianing Xi
R	B498 "Exploring Brain Connectivity with Spatial-Temporal Graph Neural Networks for Improved EEG Seizure Analysis" Junfeng Xie, Dafang Zhang, and Wei Li
S	B548 "Competitive Ensembling Teacher-Student Framework for Semi-Supervised Left Atrium MRI Segmentation" Yuyan Shi, Yichi Zhang, and Shasha Wang
S	B674 "PLFormer: Prompt Learning for Early Warning of Unplanned Extubation in ICU" Yang Chen, Tian He, Xu Gao, Hong Cheng, and Ling Wang
S	B703 "GroupSeg: An Efficient Grouping Transformer Network for Polyp Segmentation" Mingwen Zhang, Haiying Xia, and Yumei Tan
S	B713 "DR-ConvNeXt: A Dilated Residual Network based on ConvNeXt for Lung Nodule Features Prediction" Zehao Qi, GuoWei Tao, Feng Liu, Hao Gui, Wen Cai Huang, and Jia Ni Zou

December 6: Afternoon Sessions I (2pm-4pm)

Session 9: Bioinformatics and Computational Biology of Molecular Structure, Function and Evolution (2)

Chair: Hanqing Zhao

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R	B676 "Enhancing Protein Solubility Prediction through Pre-trained Language Models and Graph Convolutional Neural Networks" jie chen, Yurong Qian, Zhijian Huang, and Lei Deng
R	B698 "TGC-ARG: Predicting Antibiotic Resistance through Transformer-based Modeling and Contrastive Learning" Yihan Dong, Xiaowen Hu, Zhijian Huang, and Lei Deng
R	B834 "Protein function prediction using graph neural network with multi-type prior biological knowledge" Yunyan Shuai, Wenkang Wang, Yiming Li, Min Zeng, and Min Li
R	B783 "Deep Learning boosted amyloidosis diagnosis" Shaokai Wang and Bin Ma
S	B2106 "DARE: Sequence-Structure Dual-Aware Encoder for RNA-Protein Binding Prediction" Luhan Shen, Chengxin He, Yuening Qu, Huiru Zheng, and Lei Duan
S	B1068 "PEST: A General-Purpose Protein Embedding Model for Homology Search" Yongchang Liu, Peiying Li, Shikui Tu, and Lei Xu

Session 10: Computational Systems Biology (2)

Chair: Nguyen Quoc Khanh Le

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R	B684 "Predicting Associations between circRNAs and Drug Sensitivity using Heterogeneous Graphs and Graph Attention Networks" Xiaojun Xiao, Yurong Qian, Zhijian Huang, Rongtao Zheng, and Lei Deng
R	B694 "DyNRW: Time-Series Dynamical Networks for Identifying HCC-Related Genes" Jin A, Ju Xiang, and Min Li
R	B995 "PTDA-SWGCL: Predicting tRNA-Disease Associations using Supplementarily Weighted Graph Contrastive Learning" Yuanpeng Zhang, Yurong Qian, Xiaowen Hu, Xiaojun Xiao, Zhijian Huang, and Lei Deng
R	B2099 "A flexible gene regulatory network reconstruction method based on autoencoder and graph attention network" Ruiqing Zheng, Yanping Zeng, Weixing Zeng, and Min Li
S	B439 "A Network Propagation Based Approach for Measuring Cell-Cell Similarity" Jie Li, Bingbo Wang, and Jiaqi Li
S	B563 "Prediction of piRNA-mRNA interactions based on an interactive inference network" Yajun Liu, Ru LI, Aimin Li, Rong Fei, Xie Guo, and Fang-Xiang Wu
S	B562 "Imputing single-cell RNA-seq data by graph autoencoder with multi-kernel" Kang Jiang, Bo Liao, Petros Papagerakis, and FangXiang Wu

Session 11: Next Generation Sequencing and High-throughput Methods (2)

Chair: Lorenzo Martini

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R	B1042 "A multi-view comparative learning method for spatial transcriptomics data clustering" Wei Peng, Zhihao Zhang, Wei Dai, Xiaodong Fu, Li Liu, Lijun Liu, and Ning Yu
R	B2129 "Variational Clustering and Denoising of Spatial Transcriptomics" Cuiyuan Li, Kai Hu, Fa Zhang, and Xuefeng Cui
R	B1073 "Diffusion-Enhanced Graph Attention Network for Cancer Type Classification" Xiaofeng Wang, Jiahao Zhang, and Jianyu Zhou
S	B2078 "Using Deep Learning to Classify Full-Length Transcriptome Sequences" Weiguo Li, Junchi Ma, Cuiyuan Li, Ting Yu, and Xuefeng Cui
S	B2036 "Identification of Important SNPs using Bayesian Deep Learning on Whole-Genome Arabidopsis Thaliana Data" Nikita Kohli, Javed Tomal, and Yan Yan
S	B381 "scBERC: A Batch Effect-Removed Clustering method for single-cell omics" Yitao Zhou, Ying Wang, Feng Zeng, and Fan Yang

Session 12: Cheminformatics and pharmacogenomics (2)

Chair: Abdullah Hamadullah

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R	B2121 "ADMEOOD: Out-of-Distribution Benchmark for Drug Property Prediction" Shuoying Wei, Xinlong Wen, Songquan Li, Lida Zhu, and Rongbo Zhu
R	B1060 "Improving efficiency in rationale discovery for Out-of-Distribution molecular representations" Jiahui Zhang, Wenjie Du, Di Wu, Jiahe Li, Shuai Zhang, and Yang Wang
R	B2054 "De Novo Molecular Structure Generation from Mass Spectra" Yanmin Liu, Xuan Zhang, Wei Zhao, Daming Zhu, and Xuefeng Cui
S	B2086 "GELKcat: An Integration Learning of Substrate Graph with Enzyme Embedding for Kcat prediction" Bing-Xue Du, Haoyang Yu, Bei Zhu, Yahui Long, Min Wu, and Jian-Yu Shi
S	B888 "PandoraRLO: Unveiling Protein-Ligand Interactions with Reinforcement Learning for Optimized Pose Prediction" Justin Jose, Ujjaini Alam, Divye Singh, and Pooja Arora
S	B2103 "GEP-DL4Mol: A Novel Molecular Deep-learning Model Optimization Framework for Boosting Molecular Properties Prediction" Yuzhong Peng, Hao Zhang, Ziqiao Zhang, Shuigeng Zhou, and Shaojie Qiao

S	B428 "A computational framework for personalized cancer drug response prediction based on deep transfer learning from combined denoised genomic profiles and chemical structure embedding of drugs" Yuchen Zhang, Linghang Lian, and Xuhua Yang
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Session 13: Cross-Cutting Computational Methods and Bioinformatics of Disease (3)

Chair: Xulong Wang

Email: xl.wang@sheffield.ac.uk

R	B843 "ParaMET: A Parallel Framework for Efficient Medical Data Extraction on Tianhe-NG Supercomputer" Yutao Dou, Yangtao Zheng, Dazheng Liu, Sheng Xiao, and Shaoliang Peng
R	B251 "Privacy-Preserving Publishing of Individual-Level Medical Data for Cloud Services" Ho Bae, Heonseok Ha, and Siwon Kim
R	B1026 "MVP: Optimizing Multi-view Prompts for Medical Dialogue Summarization" Jiixin Duan, Fengyu lu, and Junfei Liu
R	B396 "HC-MAE: Hierarchical Cross-attention Masked Autoencoder Integrating Histopathological Images and Multi-omics for Cancer Survival Prediction" Suixue Wang, Xiangjun Hu, and Qingchen Zhang
S	B1384 "Spatio-temporal Similarity Measure based Multi-Task Learning for Predicting Alzheimer's Disease Progression using MRI data" Xulong Wang, Yu Zhang, Menghui Zhou, Tong Liu, Jun Qi, and Po Yang
S	B384 "CSIFNet: Deep multimodal network based on cellular spatial information fusion for survival prediction" Siqi Xiao and Zhiming Dai
S	B453 "pCCI: A machine learning patient-centric cell-cell interactions framework for cancer subtype classification" Pantelis Papageorgiou, Aigli Korfiati, Aristotelis Misios, Aristidis G. Vrahatis, Alexandros Pittis, Bogdan Tanasa, Konstantinos Mavrommatis, Yilin Zhao, Tao Yang, and Vassilis Pitsikalis

Session 14: Cross-Cutting Computational Methods and Bioinformatics of Disease (4)

Chair: Kivanc Kok

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R	B989 "BACON: Boundary-guided Polypharmacy Side Effect Prediction via Integrating Molecular Structures and Biochemical Information" Yike Wang, Huifang Ma, Zihao Gao, Zhixin Li, and Liang Chang
R	B315 "Biomedical Named Entity Recognition Through Deep Reinforcement Learning" Zhehuan Zhao, Yuying Zou, Menghan Wang, Bo Xu, Zhihao Yang, and Hongfei Lin
R	B336 "Multi-omics Sampling-based Graph Transformer for Synthetic Lethality Prediction" Xusheng Zhao, Hao Liu, Qiong Dai, Hao Peng, Xu Bai, and Huailiang Peng
S	B950 "Topic-BiGRU-U-Net for Document-level Relation Extraction from Biomedical Literature" Yali Zhao and Rong Yan
S	B370 "Cervical Cytology Classification with Coarse Labels Based on Two-Stage Weakly Supervised Contrastive Learning Framework" Siyi Chai, Jingmin Xin, Jiayi Wu, Hongxuan Yu, Zhaohai Liang, Yong Ma, and Nanning Zheng
S	B688 "PACS: Prediction and analysis of cancer subtypes from multi-omics data based on a multi-head attention mechanism model" Liangrui Pan, Dazheng Liu, Zhichao Feng, Wenjuan Liu, and Shaoliang Peng
S	B934 "High-risk Factor Prediction in Lung Cancer Using Thin CT Scans: An Attention-Enhanced Graph Convolutional Network Approach" Xiaotong Fu, Xiangyu Meng, Jing Zhou, and Ying Ji

Session 15: Biomedical and Health Informatics (3)

Chair: Zhijin Wu

Email: zhijin_wu@brown.edu

R	B388 "Using Knowledge graph and Quantum Computing to Optimize the Comprehensive Mental Health Adaptive Test System" Xinhang Wang, Guangdi Liu, and Le Zhang
R	B442 "START: Automatic Sleep Staging with Attention-based Cross-modal Learning Transformer" Jingpeng Sun, Rongxiao Wang, Gangming Zhao, Chen Chen, Yixiao Qu, Jinpeng Li, Xiyuan Hu, and Yizhou Yu
R	B450 "Learning RNA sequence patterns to interpretably identify m6A modification sites" Guodong Li, Bower Zhao, Xiaorui Su, Yue Yang, Pengwei Hu, and Lun Hu
S	B2032 "Sequential Representation of Sparse Heterogeneous Data for Diabetes Risk Prediction" Rochana Chaturvedi, Mudassir Rashid, Brian Layden, Andrew Boyd, Ali Cinar, and Barbara Di Eugenio
S	B265 "Emotion Recognition based on Physiological Signals Multi-head Attention Contrastive Learning" Yunfei Guo, Tao Zhang, and Wu Huang
S	B285 "Spatial-Temporal Fusion Pseudo-Labeling Based Informative Frame Classification for Confocal Laser Endomicroscopy Video" Zhaohui Wang, Xiangwei Zheng, Dejian Su, and Mingzhe Zhang

Session 16: Biomedical and Health Informatics (4)

Chair: Weizhong Zhao

Email: wzzhao@ccnu.edu.cn

R	B1021 "Enhancing Precision and Interpretability of CT Image Reconstruction via Self-supervised Adaptive Domain Transformation" Baiyin Huang, Guoqiang Xiao, and Xiaoqin Tang
R	B1050 "A Deep Learning Method with Multi-view Attention and Multi-branch GCN for BECT Diagnosis" Lin Zhang, Yun Ren, Fang Yuan, Yangxin Zhu, Shikui Tu, Yucai Chen, and Lei Xu
R	B1057 "Explainable Depression Recognition from EEG Signals via Graph Convolutional Network" Jian Shen, Jiaying Chen, Yu Ma, Zheyu Cao, Yanan Zhang, and Bin Hu
S	B286 "Exploring Early Stress Detection from Multimodal Time Series with Deep Reinforcement Learning" Leonardo Furia, Matteo Tortora, Paolo Soda, and Rosa Sicilia
S	B745 "Advancing Pancreas Segmentation through the Patch-Adjust Fusion Framework" yong zhang, Yi Wang, and Bin Fang
S	B862 "Biomedical Entity and Relation Extraction Based on Triple Region Vertices"
S	B790 "UMCL: Unified Medical Image-Text-Label Contrastive Learning With Continuous Prompt" Yuhao Wang and Guangyu Wang

December 6: Afternoon Sessions II (4:15pm-6pm)

Session 17: Bioinformatics and Computational Biology of Molecular Structure, Function and Evolution (3)

Chair: Lingling Jin

Email: lingling.jin@cs.usask.ca

R	B911 "ESM-NBR: fast and accurate nucleic acid-binding residue prediction via protein language model feature representation and multi-task learning" Wenwu Zeng, Dafeng Lv, Wenjuan Liu, and Shaoliang Peng
R	B917 "SLPFA: Protein Structure-Label Embedding Attention Network for Protein Function Annotation" Qiang Zhang, Juan Liu, Feng Yang, Zhihui Yang, and Jing Feng
R	B2046 "Probing Transmembrane Proteins Binding Domain via Multi-level Molecule Learning" Yihang Bao, Wenjie Li, Zehua Sun, Yuanzhao Guo, Guan Ning Lin, and Han Wang
S	B864 "SpliceCannon: A novel framework for the prediction of canonical and non-canonical splice sites based on deep learning" Yanju Zhang, Wangjing Qi, Ruohan Lin, and Jinli Fan
S	B289 "MulAxialGO: Muli-modal Feature-enhanced Deep Learning model for Protein Function Prediction" Xun Wang, Peng Qu, Xiangyu Meng, Qing Yang, Lian Qiao, and Chaogang Zhang
S	B573 "Parallel Computation of Conformational Stability for CD4+ T-cell Epitope Prediction" Avik Bhattacharya, James Wrabl, Samuel Landry, and Ramgopal Mettu

Session 18: Computational Systems Biology (3)

Chair: Tianhai Tian

Email: tianhai.tian@monash.edu

R	B2070 "A Novel Drug-Drug Interaction Prediction Model Based on Line Subgraph Generation Strategy" Tian Bai, Chu Li, Xinyue Peng, Haotian Guan, Zhefan Zhang, and Guishen Wang
R	B902 "Predicting Microbe-Metabolite Interactions by Integrating Non-negative Matrix Factorization and Generative Network" Yi Jia, Shanshan Zheng, Tingting He, and Xingpeng Jiang
R	B267 "Weighted non-negative matrix factorization-based co-clustering of single-cell RNA-seq data" Tongtong Ren and Guohua Wang
S	B2056 "Transfer learning Classification Algorithm by Exploiting Multi-source Adaptation and Similarity of omic data" Tao Yang, Minghua Wang, and Xiaoke Ma
S	B422 "GRPGAT: Predicting CircRNA-disease Associations Based on Graph Random Propagation Network and Graph Attention Network" WenYue Kang, YingLian Gao, Junliang Shang, ChunHou Zheng, Juan Wang, and JinXing Liu
S	B762 "The Construction of Sparse Probabilistic Boolean Networks: A Discrete Perspective" Christopher H. Fok, Wai-Ki Ching, and Chi-Wing Wong

Session 19: Cross-Cutting Computational Methods and Bioinformatics of Disease (5)

Chair: Thiru Ramaraj

Email: tramaraj@depaul.edu

R	B356 "Diffusing Coupling High-Frequency-Purifying Structure Feature Extraction for Brain Multimodal Registration" Fan Gao, Yuanbo He, Shuai Li, Aimin Hao, and Desen Cao
R	B357 "Multi-Kernel Tensor Fusion on Grassmann Manifold for Genomic Data Clustering" Fei Qi, Junyu Li, Yi Liao, Wenxiong Liao, Jiazhou Chen, and Hongmin Cai
R	B361 "Exploring Post-Training Quantization of Protein Language Models" Shuang Peng, Fei Yang, Ning Sun, Sheng Chen, Yanfeng Jiang, and Aimin Pan
S	B296 "Class-specific Prompts in Vision Transformer for Continual Learning of New Diseases" Defeng Zhao, Zejun Ye, Weishi Zheng, and Ruixuan Wang
S	B326 "MoSCHG: Multi-omics Single-cell Classification based on Heterogeneous Graphs and Supervised Contrastive Learning" Xinjian Chen, Chenyang Xie, Yunhao Zhang, Song He, Xiaochen Bo, and Zhongnan Zhang

S	B211 "Predicting the effect of genes on longevity with novel hierarchical dependency-constrained tree augmented naive Bayes classifiers" Cen Wan
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Session 20: Cross-Cutting Computational Methods and Bioinformatics of Disease (6)

Chair: Mehmet Kaya

Email: mkaya.tr76@gmail.com

R	B774 "Accurate Detection of MicroRNAs from NanoString nCounter with a Latent Mixture Model" Chang Yu and Zhijin Wu
R	B230 "Self-supervise learning for atrial fibrillation detection with CNNTransformer" Congyu Zou, Alexander Müller, Eimo Martens, Phillip Müller, Daniel Rückert, Alexander Steger, Matthias Becker, and Utschick Wolfgang
R	B751 "Human-Spa: An Online Platform Based on Spatial Transcriptome Data for Diseases of Human Systems"
S	B2127 "miRNA-Disease Association Prediction based on Heterogeneous Graph Transformer with Multi-view similarity and Random Auto-encoder" Yinbo Liu, Xiaodi Yan, Jun Li, Xinxin Ren, Qi Wu, Gang-ao Wang, Yuqing Chen, and Xiaolei Zhu
S	B400 "Real-time Neuron Segmentation for Voltage Imaging" Yosuke Bando, Ramdas Pillai, Atsushi Kajita, Farhan Abdul Hakeem, Yves Quemener, Hua-an Tseng, Kiryl Piatkevich, Changyang Linghu, Xue Han, and Edward Boyden
S	B2064 "Ultra-fast and High-quality Mapping of Error-prone Long Reads" Boyuan Sun

Session 21: Cross-Cutting Computational Methods and Bioinformatics of Disease (7)

Chair: Deniz Bestepe

Email: debestepe@gmail.com

R	B1100 "EditClust: A fast homologous protein sequences clustering method based on edit distance" Yixin Xiang, Jiachang Gu, and Jianyu Zhou
R	B2100 "SIDE: Sequence-Interaction-Aware Dual Encoder for Predicting circRNA Back-Splicing Events" Chengxin He, Lei Duan, Huiru Zheng, Yuening Qu, and Zhenyang Yu
R	B2101 "MGDTI: Meta-Learning Based Graph Transformer for Drug-Target Interaction Prediction" Zhenjiang Zhao, Chengxin He, Yuening Qu, Huiru Zheng, Lei Duan, and Jie Zuo
R	B818 "Accurately Identifying Muscle-Invasive Bladder Cancer from MRI via Weakly Supervised Learning" Fudan Zheng, Shaoxu Wu, Ying Song, Yuedong Yang, Yong Li, Zhiguang Chen, Tianxin Lin, Yutong Lu, and Huiying Zhao
S	B1087 "PLMTHP: An Ensemble Framework for Tumor Homing Peptide Prediction based on Protein Language Model" Yongbing Chen, Han Qin, Xiaodan Cui, Tianhui Yang, Pingping Sun, Jianting Gong, and Zilin Ren
S	B961 "BTCN: Bridging the Gap Between Pre-trained and Downstream Models for Endoscopic Caries Detection" Nan Gao, Yukai Li, Ronghua Liang, Peng Chen, Jijun Tang, and Tianshuang Liu

Session 22: Cross-Cutting Computational Methods and Bioinformatics of Disease (8)

Chair: Chengxin He

Email: cxinhe@foxmail.com

R	B2107 "VirusBERTHP: Improved Virus Host Prediction Via Attention-based Pre-trained Model Using Viral Genomic Sequences" Yunzhan Wang, Jin Yang, and Yunpeng Cai
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R	B2067 "Multi-omics clustering based on interpretable and discriminative features for cancer subtyping" Tianyi Shi, Xiukai Ye, and Tetsuya Sakurai
R	B649 "UMINT-FS: UMINT-guided Feature Selection for multi-omics datasets" Chayan Maitra, Dibyendu B. Seal, Vivek Das, Yevgeniy Vorobeychik, and Rajat K. De
S	B2024 "MTMap: A Long-Read Alignment Tool based on Multi-Core DSPs" Yufei Guo, Yingbo Cui, and Shijie Li
S	B1023 "Towards Efficient Medical Dialogue Summarization with Compacting-Abstractive Model" Jiaxin Duan, Fengyu lu, and Junfei Liu
S	B2115 "Transformer-Based Domain Adaptation for Multi-Modal Emotion Recognition in Response to Game Animation Videos" Jingyi-Yi Liu, Jia-Wen Liu, Wei-Long Zheng, and Bao-Liang Lu

Session 23: Biomedical and Health Informatics (5)

Chair: Mufti Mahmud

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R	B468 "Vision Transformers(ViT) Pretraining on 3D ABUS Image and Dual-CapsViT: Enhancing ViT Decoding via Dual-Channel Dynamic Routing" Mingwang Xu, Wei Wang, Kuanquan Wang, Suyu Dong, and Gongning Luo
R	B2014 "Learned Fingerprint Embedding for Large-scale Peptide Mass Spectra Retrieval" Yongshuai Wang, Defeng Li, Cheng Chen, Xiaojun Cai, Shiwei Sun, and Xuefeng Cui
R	B491 "Fusing Local-Global Facial Features by NFFT for Automatic Depression Estimation" Tianfei Ling, Deyuan Chen, Tingshao Zhu, and Baobin Li
S	B351 "Semantic-guided unknown-aware Rare Disease Diagnosis" Yiwen Luo and Yixuan Yuan
S	B861 "Multimodal reasoning for nutrition and human health via knowledge graph embedding" Chengcheng Fu, Yanan Yao, Jieyu Wu, Weizhong Zhao, Tingting He, and Xingpeng Jiang
S	B959 "ADCL: an adaptive dual contrastive learning framework based on MHGAT and VAE for cell type deconvolution in spatial transcriptomics" Shilin Zhang and Qingchen Zhang

Session 24: Biomedical and Health Informatics (6)

Chair: Peng Zhang

Email: zhangpeng@sinh.ac.cn

R	B1077 "Group Attention-based Multi-wave Graph Learning for Dementia Diagnosis" Jiaxin Wei, Bin Jiao, Xu Tian, Lu Shen, and Jin Liu
R	B262 "DrugProtKGE: Weakly Supervised Knowledge Graph Embedding for Highly-Effective Drug-Protein Interaction Representation" Yan-Long Qiu, Si-Qi Wang, Xi Yang, Xin-Yuan Qiu, Cheng-Kun Wu, Ying-Bo Cui, and Can-Qun Yang
R	B804 "M2-DIA: Enhancing Diagnostic Capabilities in Imbalanced Disease Data using Multimodal Diagnostic Ensemble Framework" Chan-Yang Ju, Ji-Sung Park, and Dong-Ho Lee
S	B849 "Specific-Modal Spatial Guidance and Feature Enhancement for Multi-modal Brain Tumor Segmentation" Junyang Han, Hongzhi Liu, Shiyu Zhu, Jiacheng Nie, Weixuan Wan, Chunfeng Yang, Wenxue Yu, Pinzheng Zhang, Xiaoying Tang, Yang Chen, Shijie Wang, Cheng Xue, and Jean-Louis Coatrieux
S	B870 "Predicting Tumor Mutation Burden of Lung Cancer Based on Residual Network" Xiangfu Meng, Chunlin Yu, and Xiaoyan Zhang
S	B534 "Multi-modal Contrastive-Generative Pre-training for Fine-grained Skin Disease Diagnosis" Liangdi Ma, Jun Zhao, Guoxin Wang, Yuchen Guo, and Feng Xu

December 7: Morning Sessions (10am-12am)

Session 25: Cross-Cutting Computational Methods and Bioinformatics of Disease (9)

Chair: Thiru Ramaraj

Email: tramaraj@depaul.edu

R	B391 "TransCaller: An End-to-end Accelerated Transformer-based Nanopore Basecaller on GPUs" Di Xu, Peiheng Zhang, Yang Zhang, Shunchen Shi, and Xueqi Li
R	B397 "FACEExplainer: Generating Model-faithful Explanations for Graph Neural Networks Guided by Spatial Information" Hua Yang, C.L. Philip Chen, Bianna Chen, and Tony Zhang
R	B425 "MKGSAGE: A Computational Framework via Multiple Kernel Fusion on GraphSAGE for Inferring Potential Disease-Related Microbes" Shuang Wang, JinXing Liu, BaoMin Liu, LingYun Dai, Feng Li, and YingLian Gao
S	B416 "Unsupervised Domain Adaptation by Cross-Prototype Contrastive Learning for Medical Image Segmentation" Zhuotong Cai, Jingmin Xin, Siyuan Dong, Chenyu You, Peiwen Shi, Tianyi Zeng, Jiazhen Zhang, John Onofrey, Nanning Zheng, and James Duncan
S	B369 "TGAAL: Combining Transformer-based GAN and active learning to identify the coding potential of sORFs in plant lncRNAs" Yu Wang, Jun Meng, Shihao Xia, Haibin Li, Zhaowei Wang, and Yushi Luan
S	B543 "A Study of Medical Decision Recommendations Generation and Similarity Fusion Based on CDSS and ChatGPT-4" Ming Liu, Liang Xiao, Qianchen Wang, Ziji Liu, Rujun Zhu, and Miaomiao He

Session 26: Cross-Cutting Computational Methods and Bioinformatics of Disease (10)

Chair: Chang Yu

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R	B443 "TCSIoT: Text Guided 3D Context and Slope Aware Triple Network for Dental Implant Position Prediction" Xinquan Yang, Jinheng Xie, Xuechen Li, Xuguang Li, Linlin Shen, and Yongqiang Deng
R	B506 "LI-FPN: Depression and Anxiety Detection from Learning and Imitation" Xingyun Li, Lin Lu, Xinyu Yi, Hao Wang, Yunshao Zheng, Yanhong Yu, and Qingxiang Wang
R	B475 "A Fully Automated CT-Guided Learning for Survival Prediction of Esophageal Cancer" Hailin Yue, Hulin Kuang, Jin Liu, Jianhong Cheng, Junjian Li, and Jianxin Wang
R	B744 "MLGL: Model-free Lesion Generation and Learning for Diabetic Retinopathy Diagnosis" Jiajia Li, Chenhao Lin, Zikai Wang, Haitao Song, Feng Tan, Lun Hu, and Pengwei Hu
S	B461 "AF Adapter: Continual Pretraining for Building Chinese Biomedical Language Model" Yongyu Yan, Kui Xue, Xiaoming Shi, Qi Ye, Jingping Liu, and Tong Ruan
S	B2034 "Focusing Intracranial Aneurysm Lesion Segmentation by Graph Mask2Former with Local Refinement in DSA Images" Yancheng Mo, Yanlin Cheng, Yan Hu, Jiongfu Xu, Hao Wang, Limeng Dai, and Jiang Liu
S	B705 "Multi-view Brain Networks Construction for Alzheimer's Disease Diagnosis" Yuefeng Ma, Tengfei Zhang, Zeqi Wu, Xiaochen Mu, Xun Liang, and Lanzhen Guo

Session 27: Biomedical and Health Informatics (7)

Chair: Kyungsook Han

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R	B582 "TransVCOX: Bridging Transformer Encoder and Pre-trained VAE for Robust Multi-Omics Cancer Survival Analysis" Xiaoyu Li, Wenwen Min, Jinyu Chen, Jiabin Wu, and Shunfang Wang
R	B588 "Spinal Lesions Classification and Localization with ACAT-Net from X-ray Images" Hongzhi Liu, Xiaoli Mai, Junyang Han, Shiyu Zhu, Jiacheng Nie, Weixuan Wan, Chunfeng Yang, Shijie Wang, Wenxue Yu, Xiaoying Tang, Cheng Xue, Pinzheng Zhang, Qianjin Feng, and Yang Chen
R	B2117 "Enhancing Medical Report Generation in Multi-Slice Fusion Scenarios" Shenshen Bu, Taiji Li, and Zhiming Dai
S	B627 "IDAA-NET: An Image Domain Adaptive Alignment Network for Unsupervised Liver Vessel Segmentation from CTA Images" Haixiao Geng, Jingfan Fan, Yujia Yuan, Danni Ai, Feng Duan, and Jian Yang
S	B515 "What will regularized continuous learning performs if it was used to medical image segmentation: a preliminary analysis" Weihao Dai, Chaolu Feng, Shuaizheng Chen, Wei Li, Jinzhu Yang, and Dazhe Zhao
S	B466 "Deep-USIpred: identifying substrates of ubiquitin-protein ligases E3 and deubiquitinases with pretrained protein embedding and bayesian neural network" Jia Wang, Gui-Qing Pan, Jian-Qiang Li, Xue-Qun Shang, Zhu-Hong You, and Yu-An Huang
S	B495 "Towards Modeling Human Biorhythms Using Non-Invasive Approaches" Kapataksha Das, Mohamed Abouelenien, Mihai Burzo, John Elson, Ali Hassani, and Clay Maranville

Session 28: Biomedical and Health Informatics (8)

Chair: Haiying Wang

Email: hy.wang@ulster.ac.uk

R	B635 "Multimodal attention-based variational autoencoder for clinical risk prediction" Xiaoyu Li, Taosheng Xu, Jinyu Chen, Jun Wan, and Wenwen Min
R	B483 "Improving Medical Image Denoising via a Lightweight Plug-and-play Module" Lei Ma, Hulin Kuang, Jin Liu, Chengchao Shen, and Jianxin Wang
R	B865 "Box2Pseudo: A Semi-Supervised Learning Framework for Pulmonary Nodule Segmentation with Box-Prompt Pseudo Supervision" Siqi Zhang, Jingkun Yue, Chengdi Wang, Xiaohong Liu, and Guangyu Wang
R	B260 "Addressing Sparse Annotation: a Novel Semantic Energy Loss for Tumor Cell Detection from Histopathologic Images" Zhengyang Xu, Xianglong Du, Yuxin Kang, Hong Lv, Ming Li, Wentao Yang, Lei Cui, Hansheng Li, Yaqiong Xing, Jun Feng, and Lin Yang
S	B348 "Bézier Curves Meet Deep Learning: A Novel Pretraining Method for Improved and Generalized Retinal Vessel Segmentation" Luyu Niu, Xiaojuan Chen, and Song Guo
S	B732 "Spatio-Temporal Swin Transformer-based 4-D EEG Emotion Recognition" Zongnan Chen, Jiarui Jin, and Jiahui Pan

Session 29: Biomedical and Health Informatics (9)

Chair: Pengwei Hu

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R	B912 "Enhancing Clinical Outcome Predictions through Auxiliary Loss and Sentence-Level Self-Attention" Sanghoon Lee, Gwanghoon Jang, Chanhwi Kim, Sejeong Park, Kiwoong Yoo, Jihye Kim, Sunkyu Kim, and Jaewoo Kang
R	B518 "DFNodule: a Novel Deformable Faster R-CNN for Lung Nodule Detection" guowei Tao, fu Zhou, Feng Liu, and Hao Gui
R	B519 "Simultaneous Super-Resolution and Denoising on MRI via Conditional Stochastic Normalizing Flow" Zhenhong Liu, Xingce Wang, Zhongke Wu, Yicheng Zhu, and Alejandro F Frangi

S	B2005 "DCA: Densely Cross-scale Attention Network for Anatomically-plausible Medical Image Segmentation" Yang Ning, Dawei Wang, Tianming Tan, and Caiming Zhang
S	B2088 "GCS-ICHNet: Assessment of Intracerebral Hemorrhage Prognosis using Self-Attention with Domain Knowledge Integration" Xuhao Shan, Xinyang Li, Ruiquan Ge, Shibin Wu, Ahmed Elazab, Jichao Zhu, Lingyan Zhang, Gangyong Jia, Qingying Xiao, Xiang Wan, and Changmiao Wang
S	B2148 "CCBox: Improving Box-supervised Nuclei Segmentation with Consistency Constraint" Chaojun Zhang, Yixiong Liang, and Qing Liu
R	B985 "Identifying Disease-related brain Imaging Quantitative Traits and Related Genetic Variations via A Bidirectional Association Learning Method" Muheng Shang, Yan Yang, Minjianan Zhang, Jin Zhang, Duo Xi, Lei Guo, and Lei Du

Session 30: Biomedical and Health Informatics (10)

Chair: Haider Raza

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R	B2055 "Synthesize More Diverse and Realistic Nanoparticle Image-mask Pairs on Limited Data" Wenlong Li, Chaohui Liu, Jingchuan Fan, Guoqiang Xiao, and Xiaoqin Tang
R	B2087 "Pretrain Once and Finetune Many Times: How Pretraining Benefits Brain MRI Segmentation" Hao Zhang, Sheng Xu, Wei Ren, HuPing Ye, and Yi Hong
R	B213 "AVS-Net: Attention-based Variable Splitting Network for P-MRI Acceleration" Yue Zhang, Jing Li, Zigan Wang, Jinming Duan, and Jinliang Li
S	B222 "Surgical Temporal Action-aware Network with Sequence Regularization for Phase Recognition" Zhen Chen, Yuhao Zhai, Jun Zhang, and Jinqiao Wang
S	B234 "Adversarial Training with Comprehensive Objective for Medical Image Report Generation" Xuemiao Zhang and Junfei Liu
S	B940 "Self-supervised Distillation and Multi-scale Network for Parkinson's Disease Classification" Haijun Lei, Chengjia Liang, Yuchen Zhang, Shuyuan lei, and Baiying Lei

Session 31: Biomedical and Health Informatics (11)

Chair: Hao Xie

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R	B687 "CVFC: Attention-Based Cross-View Feature Consistency for Weakly Supervised Semantic Segmentation of Pathology Images" Liangrui Pan, Lian Wang, Zhichao Feng, Liwen Xu, and Shaoliang Peng
R	B685 "LD-CSF: Local depth convolution-based Swim framework for classifying multi-label histopathology images" Liangrui Pan, Yutao Dou, Zhichao Feng, Liwen Xu, and Shaoliang Peng
R	B662 "A Structure-Affinity Dual Attention-based Network to Segment Spine for Scoliosis Assessment" Hao Xie, Zixun Huang, Frank H. F. Leung, Yakun Ju, Yong-Ping Zheng, and Sai Ho Ling
S	B482 "ParallelCoDiff: Parallel Cooperative Diffusion Model for Joint Optic Disc and Cup Segmentation" Wenqing Li and Wenhui Huang
S	B2084 "Generating Twin VFs of Unlabeled and Unpaired VF through Generative Model" Zhenyu Zhang and Haogang Zhu
R	B616 "Effective Data Preprocessing Techniques for CNN-based Selective Sweep Detection" Hanqing Zhao and Nikolaos Alachiotis

S	B800 "Implicit Feature Augmentation with Feature Transfer For Class-Imbalanced Medical Image Classification" Mei Yu, Hao Zheng, Xuwei Li, Jie Gao, Xuzhou Fu, Zhiqiang Liu, and Ruiguo Yu
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Session 32: Biomedical and Health Informatics (12)

Chair: Liang Zhao

Email: liangzhao@dlut.edu.cn

R	B914 "Integrating Automated Knowledge Extraction with Large Language Models for Explainable Medical Decision-Making" Haodi Zhang, Jiahong Li, Yichi Wang, and Yuanfeng Song
R	B933 "Counterfactual Inference-based Data Augmentation for Drug-side effect Associations Prediction" Wenjie Yao, Weizhong Zhao, Xiaowei Xu, Xingpeng Jiang, Xianjun Shen, and Tingting He
R	B949 "CARE-30: A Causally Driven Multi-Modal Model for Enhanced 30-Day ICU Readmission Predictions" Linna Wang, Leyi Zhao, Zhanpeng Luo, Xuan Wang, Ziliang Feng, and Li Lu
S	B630 "FedCCE: A class-level contribution explainable federated learning based on comparable prototypes collaboration for multi-site medical image classification" Bo Lin, Jing Wang, Yunfei Dou, Yuquan Zhang, Wei Yue, Gang Yu, and Jianwei Yin
S	B455 "Detection of Symptoms of Depression Using Data From the iPhone and Apple Watch" Samir Akre, Zachary D. Cohen, Amelia Welborn, Tomsilav D. Zbozinek, Brunilda Balliu, Jonathan Flint, Alex A.T. Bui, and Michelle G. Craske
S	B1086 "An Improved Vision-Transformer Network for Skin Cancer Classification" Gayathri Mol Shajimon, Isreal Ufumaka, and Haider Raza
S	B1092 "Interactive Multi-object Segmentation for Pathological Images with Similarity-based Propagation" Jiawei Wang, Jinhua Liu, Lin Chen, Guangshun Wei, and Yuanfeng Zhou

December 7: Afternoon Sessions I (2pm-4pm)

Session 33: Cross-Cutting Computational Methods and Bioinformatics of Disease (11)

Chair: Kivanc Kok

Email: guvanch@medipol.edu.tr

R	B335 "Detection of potential anxiety in social media based on multimodal fusion with deep learning methods" Shuzhong Lai and Zepeng Li
R	B646 "Adaptive particle swarm architecture search based on multi-level convolutions for functional brain network classification" Xingyu Wang and Junzhong Ji
R	B708 "SPHASE: Multi-Modal and Multi-Branch Surgical Phase Segmentation Framework based on Temporal Convolutional Network" Jun Long, Junkun Hong, Zidong Wang, Tingxuan Chen, Yunfei Chen, and Liu Yang
R	B930 "Effective Drug Repositioning with a Novel Negative Sample Selection Algorithm" Shengwei Ye, Weizhong Zhao, Xiaowei Xu, Xianjun Shen, Xingpeng Jiang, and Tingting He
S	B683 "An Effective Microbial-drug Relation Extraction Model Based on Dual Graph Convolutional Networks" Ruizhe Zhang, Dandan Li, Ying Xiao, Weizhong Zhao, Xingpeng Jiang, and Xianjun Shen
S	B327 "Drug-target and Drug-disease Association Prediction based on Drug-target-disease Network and Multi-task Learning" Binyu Wang, Yunhao Zhang, Hongyan Ye, Lianlian Wu, Song He, Xiaochen Bo, and Zhongnan Zhang

S	B788 "Low-Resource Efficient Multi-Stage Tuning Strategy for Biomedical Question Answering Task" Binrui Wang, Yongping Du, Xingnan Jin, Rui Yan, and Qi Zhang
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Session 34: Cross-Cutting Computational Methods and Bioinformatics of Disease (12)

Chair: Özge ŞENSOY

Email: osensoy@medipol.edu.tr

R	B764 "Automatic Detection of Sleep Spindles and its Application in Patients with Acute Disorders of Consciousness" Zhenglang Yang and Jiahui Pan
R	B796 "AMTL-RFC: A multi-task learning based method for evaluating the feasibility of enzymatic reactions" Jianghang Liu, Juan Liu, Zhihui Yang, Feng Yang, and Qiang Zhang
R	B811 "R2L-Net: Rapid Medical Image Segmentation Network Regularized by Self-Supervised Relative Localization Task" Yixin Wang, Wenxin Yu, Zhiqiang Zhang, Jun Gong, Peng Chen, and Chang Liu
R	B947 "ImmRegInformer: an interpretable Transformer-based method for prioritizing immune-regulatory cancer drivers" Liwen Xu, Boya Ji, Yijun Peng, Wending Pi, and Shaoliang Peng
R	B988 "Enhancing Cancer Gene Prediction through Aligned Fusion of Multiple PPI Networks Using Graph Transformer Models" Zebei Han and Yang Yang
S	B1094 "Pathological Tissue-level Contour Genomic Profile Interpretation of Lung Adenocarcinoma via Spatial and Morphological Features Co-action Graph Neural Network" Yu Yu, Wen Shi, Guoxi Xie, and Jianing Xi

Session 35: Cross-Cutting Computational Methods and Bioinformatics of Disease (13)

Chair: Xiufen Zou

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R	B901 "Morphological Guided Causal Constrain Network for Medical Image Multi-Object Segmentation" Yifan Gao, Jun Li, Xinyue Chang, Yulong Zhang, Riqing Chen, Changcai Yang, Yi Wei, Heng Dong, and Lifang Wei
R	B913 "Deep Residual Fourier and Self-Attention for Arbitrary Scale MRI Super-Resolution" Xiaojie Wang, Jing Xia, Shanshan Gao, Xingwei Hao, and Yuanfeng Zhou
R	B924 "An Effective Model for Drug-Drug Interactions Prediction in Cold-start Scenario via Counterfactual Data Augmentation" Xueling Yuan, Weizhong Zhao, Xiaowei Xu, Xinhui Tu, Xingpeng Jiang, and Tingting He
R	B951 "Isoform Function Prediction Based on Heterogeneous Graph Attention Networks" Kuo Guo, Yifan Li, Hao Chen, Hong-Bin Shen, and Yang Yang
R	B404 "Metapath-aggregated multilevel graph embedding for miRNA-disease association prediction." Wen Cao, Yang Chen, Jian-Ye Yang, Fei-Yang Xue, Zhan-Hui Yu, Jing Feng, Ze-Jun Wu, Jing Gong, and Xiao-Hui Niu
S	B2147 "A joint CNN-GNN framework for early diagnosis of AD using multi-source multi-modal data" Yanteng Zhang, Xiaohai He, Lipei Zhang, Qingyan Cai, Xia Ren, and Yan Liu

Session 36: Biomedical and Health Informatics (13)

Chair: Baris Coskunuzer

Email: coskunuz@utdallas.edu

R	B760 "Knowledge-Enhanced Difference-Aware Clinical Time Series Representation Learning for Diagnosis Prediction"
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	Ying An, Yinghong Shi, Lin Guo, Yu Sheng, and Xianlai Chen
R	B786 "Identification of ASD via Graph Convolutional Network with Visual Semantic Encoding of Saccade" Chen Xia, Hexu Chen, Xinran Guo, Kuan Li, and Shuai Ren
R	B814 "RobustHealthFL: Robust Strategy Against Malicious Clients in Non-iid Healthcare Federated Learning" peng xi, wenjuan tang, and Shaoliang Peng
R	B569 "A smart chicken farming platform for chicken behavior identification and feed residual estimation" Jiezhi Yang, Chaochao Qu, Zirong Liu, Kangzhe Ma, Jun Gao, Kuo Zhao, Ning Jiang, Quan Lu, Yanyan Li, Linjing Wei, Wenjing Tao, Huiru Zheng, Antong Zhou, and Le Zhang
S	B373 "HistDeblur: A Pyramid Trustworthy Framework for Blurry Histologic Artifacts Quality Control" Yuxiang Sun, Kai Liu, Yiqing Shen, XiaoDan Han, and Jing Ke
S	B235 "Adaptively Multi-Objective Adversarial Training for Medical Image Report Generation" Xuemiao Zhang and Junfei Liu
S	B255 "Deep Adversarial Network Based Stain Unmixing for Brightfield Multiplex Immunohistochemistry Images" Siyuan Xu, Guannan Li, Mingxue Gu, and Qingli Li

Session 37: Biomedical and Health Informatics (14)

Chair: Sleiman Alhajj

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R	B820 "Calibrated Uncertainty-Guided Multi-task Framework for Medical Image Segmentation" Yu Chen, Chunwei Wu, Shasha Liu, and Guitao Cao
R	B858 "A novel few-shot learning approach for the classification of histological images of neuroblastoma" Bo Xu, Qirui Wang, Longjiao Li, Ruiyuan Wang, and Hongfei Lin
R	B885 "STLDA: A Spatiotemporal Linear Discriminant Analysis for Single-trial ERP-based Depression Recognition" Yuhan Shi, Nan Zhao, Wenjie Yuan, Qiqi Zhao, XiaoWei Zhang, and Bin Hu
R	B2073 "Personalized federated adaptive regularization for heterogeneous medical image classification: COVID-19 CT results" Yuan Liu, Zhe Qu, Shu Wang, Tao Sheng, Xiaoqing Yu, and Jianxin Wang
S	B629 "A Weak Supervision-based Robust Pretraining Method for Medical Visual Question Answering" Shuning He, Haiwei Pan, Kejia Zhang, Cheng Gong, and Zhe Li
S	B559 "Introducing an Open-Source Python Toolkit for Machine Learning Research in Physiological Signal based Affective Computing" Ruijie Fang, Ruoyu Zhang, Elahe Hosseini, Setareh Rafatirad, and Houman Homayoun

Session 38: Biomedical and Health Informatics (15)

Chair: Mufti Mahmud

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R	B717 "Semi-supervised Medical Image Segmentation via Feature-perturbed Consistency" Yang Yang, Ruixuan Wang, Tong Zhang, and Jingyong Su
R	B738 "Leveraging Frequency Domain Learning in 3D Coronary Segmentation" Xinyuan Wang, Chengwei Pan, Hongming Dai, Gangming Zhao, Jinpeng Li, Xiao Zhang, and Yizhou Yu
R	B693 "SCTransNet: 3D Medical Image Segmentation Model Based on the Fusion of CNN and Transformer" Yongchang Jia, Guihua Duan, and Yu Sheng
S	B943 "Cervical OCT Image Synthesis via Noise Adaptation Diffusion Models" Yuxuan Xiong, Yimin Luo, Qian Tang, Yan Zhang, and Bo Du
S	B962 "Enhanced Knowledge Injection for Radiology Report Generation"

	Qingqiu Li, Jilan Xu, Runtian Yuan, Mohan Chen, Yuejie Zhang, Rui Feng, Xiaobo Zhang, and Shang Gao
S	B2033 "scGEMOC, A Graph Embedded Contrastive Learning Single-cell Multiomics Clustering Model" Bingjun Li and Sheida Nabavi
S	B2052 "Diurnal Pain Classification in Critically Ill Patients using Machine Learning on Accelerometry and Analgesic Data" Jessica Sena, Sabyasachi Bandyopadhyay, Andrea Davidson, Ziyuan Guan, Jesimon Bareto, Tezcan Ozrazgat-Baslanti, Patrick Tighe, Azra Bihorac, William Schwartz, and Parisa Rashidi

Session 39: Biomedical and Health Informatics (16)

Chair: Nguyen Quoc Khanh Le

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R	B521 "MLLCD: A Meta Learning-based Method for Lung Cancer Diagnosis Using Histopathology Images" Xiangjun Hu, Suixue Wang, Hang Li, and Qingchen Zhang
R	B975 "Rethinking Low-Dose CT Synthesis: Degrading Normal-Dose CT from Origin for Pairwise Training of CT Denoiser" lianying chao, Taotao Zhang, Yanli Wang, wenqi shan, qiang li, and zhiwei wang
R	B538 "ConvUNET: a Novel Depthwise Separable ConvNet for Lung Nodule Segmentation" Xinkai Tang, Feng Liu, Ruoshan Kong, Fei Luo, Wencai Huang, and Jiani Zou
S	B850 "Protein Function Prediction with Primary-Tertiary Hierarchical Learning" Arnold Kazadi, Ming Zhang, and Jingbo Zhou
S	B503 "Discrete Residual Diffusion Model for High-Resolution Prostate MRI Synthesis" Zhitao Han and Wenhui Huang
S	B537 "Stain Normalization and Augmentation in Frequency Space for Histology Analysis" Yingfan Li, Huaiji Zhou, Na Liu, and Yiqing Shen
S	B797 "Efficient Global-Context driven Volumetric Segmentation of Abdominal Images" Pallabi Dutta and Sushmita Mitra

Session 40: Biomedical and Health Informatics (17)

Chair: Jinli Zhang

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R	B958 "An Attention-based Label Mapping and Multi-factor Domain Adaptation Approach for ACS Prediction" Yutao Dou, Zhengyu Liu, Xiongjun Zhao, Liangrui Pan, and Shaoliang Peng
R	B969 "Soft Tissue Sarcoma Segmentation Network Based on Self-supervised Learning" Liang Zhao, Yu Shao, Zhanxin Gang, Chaoran Jia, Yihan Chen, and Zhikui Chen
R	B1038 "Deep k-Space Partition-Based Pyramid Networks for Fast Multimodal MRI Reconstruction Guided by Multiscale Reference Modality" Xiao-Xin Li, Wen-Hao Zheng, Qianwei Zhou, and Lei Chen
R	B620 "SRPA: ScribbleMatch and Reliable-Guided Pixel Alignment for Scribble-Supervised Medical Image Segmentation" Tingjie Liu, Lihong Qiao, Yucheng Shu, Weisheng Li, and Xinbo Gao
S	B712 "Synthesizing with Diffusion model for improving medical image segmentation performance" Zengan Huang, Qinzhu Yang, Mu Tian, and Yi Gao
S	B1995 "Variational Autoencoder with Temporal Condition for Effective Shape-based Calcium Imaging Neuron Registration" Cyrus Y. H. Fung, Sudipta Acharya, Tak Pan Wong, and Steven H. H. Ding
S	B1999 "Privacy Risks Analysis and Mitigation in Federated Learning for Medical Images" Badhan Chandra Das, M. Hadi Amini, and Yanzhao Wu

December 8: Morning Sessions (10am-12am)

Session 41: Biomedical and Health Informatics (18)

Chair: Deqiang Xiao

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R	B2090 "Synthetic Monocular Depth Estimation Dataset for Cataract Surgery Assistance" Yingquan Zhou, Zhongxi Qiu, Mingming Yang, Yan Hu, and Jiang Liu
R	B558 "LightK-DSGCN: Depression Detection in EEGs with Lightweight Kalman Filter-aided Dual-Stream Graph Convolutional Networks" Yanshen Sun, Jianger Yu, and Chang-Tien Lu
R	B565 "Emotion and Stress Recognition Utilizing Galvanic Skin Response and Wearable Technology: A Real-time Approach for Mental Health Care" Elahe Hosseini, Ruijie Fang, Ruoyu Zhang, Setareh Rafatirad, and Houman Homayoun
R	B1088 "Soft Tissue Sarcoma Segmentation Network Based on Ensemble Learning" Liang Zhao, Yu Shao, Chaoran Jia, Jing Gao, Yihan Chen, and Zhanxin Gang
S	B448 "Radiology Report Generation via Structured Knowledge-Enhanced Multi-modal Attention and Contrastive Learning" Dexuan Xu, Yanyuan Chen, Jiayu Zhang, Yiwei Lou, Hanpin Wang, Jing He, and Yu Huang
S	B514 "A Time-Guided Method for Constructing Combined Medical Event Chains" Lishuang Li, Tianqi Hu, and Xueyang Qin
S	B936 "HiSwin UT: Hybrid Swin Transformers Network for Segmenting 3D in vivo Two-photon Images of Rodent Cerebrovasculature" Jie Li, Chong Wang, Zizhen Li, Hao Li, Mingzhu Sun, and Xin Zhao

Session 42: Biomedical and Health Informatics (19)

Chair: Mufti Mahmud

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R	B2047 "Integrating Multimodal Contrastive Learning and Cross-Modal Attention for Alzheimer's Disease Prediction in Brain Imaging Genetics" Rong Zhou, Houliang Zhou, Li Shen, Brian Y. Chen, Yu Zhang, and Lifang He
R	B2007 "Multi-Modal Deep Feature Integration for Alzheimer's Disease Staging" Amritpal Singh, Wenqi Shi, and May Wang
R	B2017 "A Hybrid Outbreak Detection Using Ontology-based Data Collection from Social Media" Ghazaleh Babanejaddehaki, Aijun An, and Heidar Davoudi
R	B1097 "M ³ CI-Net: Multi-Modal MRI-Based Characteristics Inspired Network for IDH Genotyping" Jingxiao Yao, Jianhong Cheng, Hulin Kuang, Jin Liu, and Jianxin Wang
S	B982 "Biomedical Event Detection Based on Domain Knowledge Injection and Model Dual Channel Fine-tuning" Xinyu He, Xue Han, and Shixin Li
S	B808 "Improved YOLOX Framework for Automatic Large Intracranial Artery Stenosis Detection in Digital Subtraction Angiography Images" Weijin Xu, Huihua Yang, Tao Tan, Wentao Liu, Feng Gao, Yiming Deng, Xipeng Pan, and Ruisheng Su
S	B927 "Online Continual EEG Classification with Dynamic Memory Evolution: A Principled Approach" Tiehang Duan, Zhenyi Wang, Gianfranco Doretto, Fang Li, Cui Tao, and Donald Adjeroh

Session 43: Biomedical and Health Informatics (20)

Chair: Haodi Zhang

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R	B722 "DILM-ICD: A Deep Iterative Learning Model for Automatic ICD Coding" Weiyan Qiu, Yifan Wu, Yiming Li, Kunying Niu, Min Zeng, and Min Li
R	B889 "Entity Relation Aware Graph Neural Ranking for Biomedical Information Retrieval" Yichen He, Xiaofeng Liu, Jinlong Hu, and Shoubin Dong
R	B883 "BFP-Net: Boundary Feature Pyramid for Medical Image Segmentation" min shiquan, zhang xiang, and Shunfang Wang
R	B1072 "FedGST: Federated Graph Spatio-Temporal Framework for Brain Functional Disease Prediction" Junbin Mao, Jin Liu, Yi Pan, Hanhe Lin, and Xu Tian
S	B1045 "TetraCVD: a temporal-textual Transformer based model for cardiovascular disease diagnosis" Kailong Lu, Fei Zhao, Penghuan Gu, Haoyan Wang, and Tianyi Zang
S	B1049 "A Self-Attention Based DNN Model to Classify Dynamic Functional Connectivity for Autism Spectrum Disorder Diagnosis" Libiao Chen, Sizhe Wang, Zhenyu Wei, YaoQing Zhang, Mengzhu Luo, and Yin Liang
S	B360 "An efficient domain adaptation framework for cross-subject EEG classification" Tian-jian Luo

Session 44: Biomedical and Health Informatics (21)

Chair: Cihan Bilge KAYASANDIK

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R	B996 "Chat2Brain: A Method for Mapping Open-Ended Semantic Queries to Brain Activation Maps" Yaonai Wei, Tuo Zhang, Han Zhang, Tianyang Zhong, Lin Zhao, Zhengliang Liu, Chong Ma, Songyao Zhang, Muheng Shang, Lei Du, Xiao Li, Tianming Liu, and Junwei Han
R	B1114 "MouseScholar: Evaluating an Image+Text Search System for Biocuration" Juan Trelles Trabucco, Carla Floricel, Cecilia Arighi, Hagit Shatkay, Daniela Raciti, Martin Ringwald, and G. Elisabeta Marai
R	B905 "Enhancing Longitudinal Medical Image Segmentation through Spatial-temporal Fusion" Liang Zhao, Chaoran Jia, Yu Shao, Zhanxin Gang, Rui Lin, and Ruixin Ma
R	B1081 "TSM: Three-Stream Mix For Unsupervised Medical Image Registration" Zhen Gu, Daoqiang Zhang, Fang Chen, Peng Wan, and Lingyu Chen
S	B1069 "High-Activity Enhancer Generation based on Feedback GAN with Domain Constraint and Curriculum Learning" Jiahao Li, Liwei Xiao, Jiawei Luo, Xianliang Liu, and Junjie Chen
S	B691 "Multi-source unsupervised domain-adaptation for automatic sleep staging" Yangxin Zhu, Shikui Tu, Lin Zhang, and Lei Xu
S	B1089 "Multi-modal Learning with Missing Modality in Predicting Axillary Lymph Node Metastasis" Shichuan Zhang, Sunyi Zheng, Zhongyi Shui, Honglin Li, and Lin Yang

Session 45: Biomedical and Health Informatics (22)

Chair: Özge ŞENSOY

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R	B953 "Diff-SFCT: A Diffusion Model with Spatial-Frequency Cross Transformer for Medical Image Segmentation" Yuxuan Jiang, Yi Ding, Guobin Zhu, Zhen Qin, Minghui Pang, and Mingsheng Cao
R	B668 "Biomedical Causal Relation Extraction via Data Augmentation and Multi-source Knowledge Fusion" Jing Hao, Lishuang Li, and Xueyang Qin
R	B2002 "MFHCC: Multi-View Feature Hierarchical Contrastive Clustering Model for Multi-Omics Data" Zongli Jiang, Hongwei Ren, Ziwei Yang, Jinli Zhang, and Zheng Chen

R	B1112 "A Privacy Preserving Computer-aided Medical Diagnosis Framework with Outsourced Model" Xinyu Feng, Qingni Shen, Cong Li, Xuwei Wang, Niantao Xie, Yuejian Fang, and Zhonghai Wu
S	B540 "Dynamic Graph Attention: Unraveling Spatio-Temporal Synchrony in EEG Data" Federica Proietto Salantri, Giovanni Bellitto, Raffaele Mineo, Matteo Pennisi, Amelia Sorrenti, Salvatore Calcagno, Daniela Giordano, Simone Palazzo, and Concetto Spampinato
S	B758 "Simulation of ECG Using a Rabbit Cardiac Conduction Model with Dual-Pathway Atrioventricular Node" Maxim Ryzhii and Elena Ryzhii
S	B893 "End-to-End PPG Processing Pipeline for Wearables: From Quality Assessment and Motion Artifacts Removal to HR/HRV Feature Extraction" Mohammad Feli, Kianoosh Kazemi, Iman Azimi, Yuning Wang, Amir Rahmani, and Pasi Liljeberg

December 8: Afternoon Sessions I (2pm-4pm)

Session 46: Biomedical and Health Informatics (23)

Chair: Yuxuan Jiang

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R	B2048 "A Morphology Focused Cell Detection Model for Histopathology Images" Zhe Wang, Fangyue Wei, Shuyu Guo, Xiaoting Che, and Tian Bai
R	B1033 "A Novel Deep Learning Approach Featuring Graph-Based Algorithm for Simultaneous Cell Segmentation and Tracking" Keliang Zhao, Jovial Niyogisubizo, Linxia Xiao, Yi Pan, and Yanjie Wei
S	B536 "Multi-Modal Network based on Spatio-temporal and Attention for Emotion Recognition" Yong Zhang, Wenyun Chen, and Cheng Cheng
R	B477 "Domain-specific Knowledge Guided Self-supervised Learning for Pathological Image Segmentation" Chenhui Wang, Hulin Kuang, Jin Liu, Junjian Li, Hailin Yue, and Jianxin Wang
S	B1020 "Fast MRI Reconstruction via Boosting Filter Diversity of Deep Cascading Networks" Xiao-Xin Li, Wen-Hao Zheng, Haigen Hu, and Lei Chen
S	B282 "Polyp2Former: Boundary Guided Network Based on Transformer for Polyp Segmentation" Xiaoshuang Huang, Jinze Huang, Shuo Wang, Yaoguang Wei, Dong An, and Jincun Liu
S	B297 "MSCCNet: Multi-Scale Convolution-Capsule Network for Cervical Cell Classification" Hua Chen, Juan Liu, Peng Jiang, Yu Jin, Jing Feng, Baochuan Pang, Dehua Cao, and Cheng Li

Session 47: Biomedical and Health Informatics (24)

Chair: Jinli Zhang

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R	B273 "Self-distillation Augmented Masked Autoencoders for Histopathological Image Understanding" Yang Luo, Zhineng Chen, Shengtian Zhou, Kai Hu, and Xieping Gao
R	B673 "Semi-MedSeq: Semi-supervised Semantic Segmentation for Medical Image Sequences" Runtian Yuan, Jilan Xu, Qingqiu Li, Yuejie Zhang, Rui Feng, Xiaobo Zhang, Tao Zhang, and Shang Gao
R	B303 "Assessing and Enhancing Robustness of Deep Learning Models with Corruption Emulation in Digital Pathology" Peixiang Huang, Songtao Zhang, Yulu Gan, Rui Xu, Rongqi Zhu, Wenkang Qin, Limei Guo, Shan Jiang, and Lin Luo

S	B596 "Health and Senior Care Video Moment Localization With Procedure Knowledge Distillation" Chaochen Wu, Meiyun Zuo, and Guan Luo
S	B2144 "UniMOS: A Universal Framework For Multi-Organ Segmentation Over Label-Constrained Datasets" Can Li, Sheng Shao, Junyi Qu, Shuchao Pang, and Mehmet A. Orgun
S	B2146 "FedARC: Federated Learning for Multi-Center Tuberculosis Chest X-ray Diagnosis with Adaptive Regularizing Contrastive Representation" Chang Liu, Yong Luo, Yongchao Xu, and Bo Du
S	B472 "A Diffusion Model-based Joint Dual-Task Network for Low-Quality Retinal Image Enhancement and Vessel Segmentation" Fengting Liu and Wenhui Huang

Session 48: Biomedical and Health Informatics (25)

Chair: Deniz Bestepe

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R	B415 "Semantic-Similarity Collaborative Knowledge Distillation Framework for Whole Slide Image Classification" Zehua Ye, Yonghong He, and Tian Guan
R	B1099 "Noninvasive diagnosis of hepatocellular carcinoma by integrating the genetic, epigenetic and fragmentation features of cell-free DNAs" Xiaoqing Peng, Junjie You, Wanxin Cui, and Mengxi Zou
R	B423 "MixUNet: Mix the 2D and 3D Models for Robust Medical Image Segmentation" Jiawei Li, Shizhan Chen, Jijun Tang, Shiqiang Ma, and Fei Guo
S	B1051 "A Closer Look at Weak Supervision's Limitations in WSI Recurrence Score Prediction" Namitha Guruprasad, Amir Akbarnejad, Gilbert Bigras, Penny J. Barnes, and Nilanjan Ray
S	B355 "Interpretable Deep Learning Models With Concept Whitening Layers" Megana Reddy Boddam and Wooyoung Kim
S	B437 "Prediction of Metabolic Syndrome Based on Machine Learning Techniques with Emphasis on Feature Relevances and Explainability Analysis" Begoña Ispizua, Diana Manjarres, and Iratxe Niño
S	B460 "Coarse-Fine View Attention Alignment-Based GAN for CT Reconstruction from Biplanar X-Rays" Zhi Qiao, Dongheng Chu, Hanqiang Ouyang, Huishu Yuan, Xiantong Zhen, Pei Dong, and Zhen Qian

Session 49: Biomedical and Health Informatics (26)

Chair: Yue Zhang

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R	B488 "A Dual-View Fusion Network for Automatic Spinal Keypoint Detection in Biplane X-ray Images" Dandan Zhou, Lijun Guo, Rong Zhang, Xiuchao He, Qiang Wang, and Jianhua Wang
R	B510 "CAMPEOD: A Cross Attention-Based Multi-Scale Patch Embedding Organoid Detection Model" Xun Deng, Lun Hu, Zhu-Hong You, and Peng-Wei Hu
R	B516 "CPACConv-POCO:a Continuous Position Adaptive Convolution based POCO for lung nodule 3D Reconstruction" Ao Jiang and Feng Liu
S	B974 "ERU-Net: An Enhanced Regression U-Net with Attention Gate and Adaptive Feature Fusion Block for Brain Age Prediction" Jiaxiang Cao, Yixiao Hu, and Baobin Li
S	B968 "Predicting Chronic Obstructive Pulmonary Disease Based on Multi-Stage Composite Ensemble Learning Framework"

	Liang Zhao, Zhanxin Gang, Chaoran Jia, Yu Shao, Chenhua Guo, and Jing Gao
S	B863 "EEG based Parkinson Detection through Supervised Information Enhanced Contrastive Learning" Jian Song, Xiang Li, Wenjing Jiang, Chunxiao Wang, Zhigang Zhao, Jialiang Lv, and Bin Hu
S	B765 "A generalizable physiological model for detection of Delayed Cerebral Ischemia using Federated Learning" Ahmed Elhussein, Murad Megjahni, Daniel Nametz, Miriam Weiss, Jude Savarraj, Soon Bin Kwon, David J. Roh, Saachin Agarwal, E. Sander Connolly, Jr, Angela Velazquez, Jan Claassen, Huimahn A. Choi, Gerrit A. Schubert, Soojin Park, and Gamze Gürsoy

Session 50: Biomedical and Health Informatics (27)

Chair: **Yuang Cai**

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R	B664 "A Tongue Feature Extraction Method Based on a Sublingual Vein Segmentation" Yulong Hu, Dehui Qiu, Xiaohua Wan, Juan Zhang, Xiaotong Wang, Fa Zhang, and Bin Hu
R	B757 "Auto-Augmentation Contrastive Learning for Wearable-based Human Activity Recognition" Qingyu Wu, Jianfei Shen, Feiyi Fan, Yang Gu, Chenyang Xu, and Yiqiang Chen
R	B549 "A Knowledge Graph-based Clustering Approach for Drug Side Effects Prediction" Ying Zheng and Shibo Xu
S	B1976 "ProBioRE: A Framework for Biomedical Causal Relation Extraction Based on Dual-head Prompt and Prototypical Network" Lishuang Li and Wanting Ning
S	B398 "A Control Chart Method for Simultaneously Monitoring the Average Level and Stability of Surgical Quality" Ruoyu Liu, Xin Lai, Jiayin Wang, Paul B.S. Lai, and Ka Chun Chong
S	B2025 "Data Augmentation and Pseudo-sequence of fNIRS for Depression Recognition" Kai Shao, Yixue Hao, Long Hu, Xiaofen Zong, and Min Chen
S	B944 "Conservative Q-Learning for Mechanical Ventilation Treatment Using Diagnose Transformer-Encoder" Yuyu Yuan, Jinsheng Shi, Jincui Yang, Chenlong Li, Yuang Cai, and Baoyu Tang

Session 53: video session online

The link to watch the papers in the BIBM 2023 video session BIBM23 is:

https://ieeecps.org/#!/auth/login?conference_video=1&pid=59kB3AP5W1N1xJCjK0VWOC

S	B923 "A Heterogeneous Ranking Contrastive Learning Method for Drug-Target Interaction Prediction" Desheng Kong, Xu Jin, Yanhao Li, Maoqiang Xie, Jingjing He, Mingming Liu, Yalou Huang, Weiwei Yang, Hao Shi, and Yiran Wan
S	B274 "Interpretable attention network with multi-view learning for drug-drug interaction prediction" Xuan Lin, Qi Wen, Sijie Yang, Zu-Guo Yu, Yahui Long, and Xiangxiang Zeng
S	B716 "A Dynamic Composite Ensemble Learning Framework for Multi-Stage Dementia Prediction" Bangyan Li, Xingjiao Wu, Yuling Sun, and Liang He
R	B276 "Bridging the Gap: Cross-modal Knowledge Driven Network for Radiology Report Generation" Beichen Kang, Yun Xiong, Jianbo Jiao, Yao Zhang, Xing Jia, and Ji Li
S	B656 "DeepLA: A deep learning-based model for predicting protein function from protein sequence and evolutionary information" Bing Jia, Tao Feng, Chenri Li, Baoqi Huang, Fei Hao, and Dongjun Liu

S	B292 "TNFIPs-Net: A deep learning model based on multi-feature fusion for prediction of TNF- α inducing epitopes" Shengli Zhang, Yujie Xu, Yuanyuan Jing, and Yunyun Liang
S	B2131 "Multi-granularity Information Flow Enhanced Skeleton-based Infant Seizure Detection" huiyuan chen, weiting chen, na li, and yiqing zhang
R	B203 "Gene Expression Profile Prediction under Drug Action Based on Generative Adversarial Networks" Liang Yu, Da Dong, Huan Zhu, and Lin Gao
S	B948 "GTDDA: Graph Convolutional Network and Graph Transformer Structure for Drug Repositioning" Jialan Tang, Xiaoting Zeng, Pingkang Li, Weilin Chen, and Baiying Lei
S	B1105 "Trusted Fine-grained Medical Image Classification through Multiple Evidence Fusion" Zhikang Xu, Xiaodong Yue, Bofeng Zhang, Ying Lv, and Zhipeng Wei
R	B484 "Location-Aware Transformer Network for Few-Shot Medical Image Segmentation" Wendong Huang, Bin Xiao, Jinwu Hu, and Xiuli Bi
S	B372 "Brain Functional Residual Temporal Convolution Network for Major Depressive Disorder Recognition" Xiaofang Sun, Yonghui Xu, Xiangwei Zheng, Wei Guo, Wei He, Yali Jiang, Yongqing Zheng, and Lizhen Cui
R	B2023 "Integrating Heterogeneous Biological Networks and Ontologies for Improved Protein Function Prediction with Graph Neural Networks" Nhat Tran and Jean Gao
R	B485 "scSRL: Siamese Representation Learning-based method for analyzing single-cell RNA-seq data" Zhaoyang Sun, Ying Liu, Pei Liu, Wanwan Shi, and Jiawei Luo
S	B469 "Long Video Micro-expression Spotting Based On OCC Theory" Bingtong Liu, Zheyuan Zhang, Ju Zhou, Hanpu Wang, Yingjuan Jia, and Tong Chen
S	B205 "How GNNs Facilitate CNNs in Mining Geometric Information from Large-Scale Medical Images" Yiqing Shen, Bingxin Zhou, Xinye Xiong, Ruitian Gao, and Yu Guang Wang
S	B2109 "Echoes of the Mind: Conformer Augmentation and Contrastive Loss in Audio-EEG Convergence" Jiyao Liu, Li Zhang, and Hao Wu
R	B597 "Hierarchical Semantic Augmentation Graph Neural Network for Drug-Disease Association Prediction" Mingjing Han, Han Zhang, Huan Wang, and Yanbin Yin
S	B724 "Graph Neural Networks with Geometric Edge Fusion and Point Downsampling for Drug-Target Interaction Prediction" Xinyu Zhu, Li Li, and Weiming Lu
S	B580 "A Collaborative Cross-Attention Drug Recommendation Model Based on Patient and Medical Relationship Representations" Yourong Li, Yuliang Shi, Yide Jin, Xinjun Wang, Zhongmin Yan, Zhiyong Chen, and Fanyu Kong
R	B533 "KE-HMFNet: A Knowledge-Enhanced Hierarchical Molecular Representation Fusion Network for Drug Recommendation" Junjie Zhang, Xuan Zang, Hao Chen, and Buzhou Tang
S	B1008 "Mutual Graph Learning Network and Diffusion Probabilistic Model-based Medical Image Segmentation" Huaqiang Su, Haijun Lei, Xin Chen, and Baiying Lei
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