2024 IEEE International Conference on Bioinformatics and Biomedicine (BIBM 2024)

The conference schedule is based on Lisbon Time
December 03-06, 2024
Lisbon, Portugal

Registration Desk Location & Hours
Location: **IST Congress Centre, Hall -01**

Dec 2: 3:00-6:00PM
Dec 3: 8.00-5:00PM
Dec 4 8:00AM- 5:00PM
Dec 5: 8:00AM-5:00PM
Dec 6: 8:00AM-2:00PM

Wi-Fi Networks: there are two meeting locations: IST and Holiday Inns
At IST:
  Login credentials:
      Username: IEEE-BIBM2024
      Password: F7Scyv
  1. Browse available wireless networks and select as SSID 'tecnico-guest';
  2. Set IP to automatic (DHCP). This is usually the default setting, so you may probably skip this step;
  3. Open your browser and try to access any external website. You will be automatically redirected to the page https://wifi.ist.utl.pt/index.php.
Follow the link 'Web based login' at the top of the page concerning short-time, conference and meetings accounts. Enter the above username/password when requested;
   4. After step 3 you may freely browse and access the Internet. You may need to repeat the above steps if you close your browser or if the connection times out.

At Holiday Inn: Select the wifi network "Holiday Inn", no password is needed

The Portal site of IEEE BIBM for Registered Participants:

to access the video submissions from the accepted authors, and the **IEEE BIBM 2024 conference proceedings**.
https://events.rdmobile.com/login/magic-link/204fee2f-b831-49bd-baad-800ad1bf1add?e=18266&o=401

If you have any trouble to login, pls contact Steve Woods <swoods@computer.org>

Meeting Rooms	Floor, location
Açores	Holiday Inn floor -1
Porto Santo	Holiday Inn floor -1
Navegadores	Holiday Inn floor -1
Galeão	Holiday Inn floor -1
VIP	Holiday Inn floor +1
Caravela I	Holiday Inn floor +2
Caravela II	Holiday Inn floor +2
Grande Auditório	Centro de Congressos , IST
Room 01.1	Centro de Congressos , IST
Room 02.1	Centro de Congressos , IST
Room 02.2	Centro de Congressos , IST
Room 02.3	Centro de Congressos , IST
AFaro Amphitheatre	Edifício Interdisciplinar, IST

IST location for:
Lunches and Coffee Breaks: Congress Centre, Hall -01 (floor -01) and Hall -02 (floor -02)
The Congress Centre (CC) is in the Civil Engineering Building,
 Posters are located in the Civil Engineering Hall, ground floor

HOTEL Holiday Inn location for:
Coffee Breaks: Foyer (floor -1)
Lunches: Restaurant (ground floor)

IST – Instituto Superior Técnico
Técnico Lisbon
https://tecnico.ulisboa.pt/en/

Welcome Reception: IST - Central Building, Noble Salon
Tuesday, 3rd December 2024
https://tecnico.ulisboa.pt/en/about-tecnico/campus/alameda/

TUNA – IST

Concerto : *TEMPUS - Quarteto de Cordas* (Igreja dos Loretos, 19H)
Wednesday, 4th december
http://www.youtube.com/watch?v=tBnsT-Q4Fy8

Location: Igreja dos Loretos,
       R. Misericórdia, 2
       1200-273 LISBOA
LISBOA - Comunidade Dehoniana de Nossa do Loreto - Dehonianos
R. da Misericórdia 2 - Google Maps
GPS: 38.71079755368496, -9.142846879763544

Dinner : Tapada da Ajuda (ISA)

Thursday, 5th december

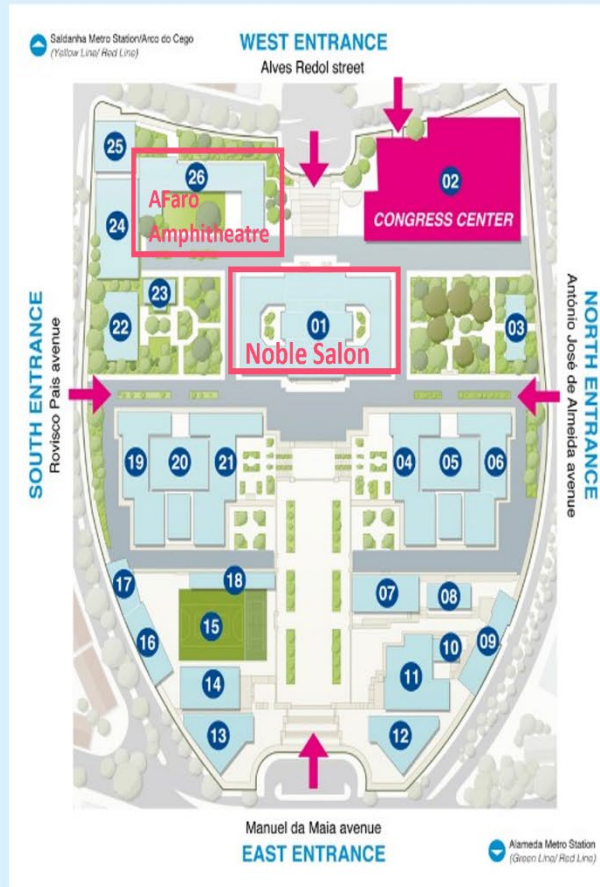https://www.isa.ulisboa.pt/en/visitors/venues-for-events
https://www.isa.ulisboa.pt/visitantes/espacos-da-tapada

TÉCNICO LISBOA

Campus Plan - Alameda

Saldanha Metro Station/Arco do Cego (Yellow Line/ Red Line)

WEST ENTRANCE
Alves Redol street

AFaro Amphitheatre

CONGRESS CENTER

Noble Salon

SOUTH ENTRANCE
Rovisco Pais avenue

NORTH ENTRANCE
António José de Almeida avenue

Manuel da Maia avenue
EAST ENTRANCE

Alameda Metro Station
(Green Line/ Red Line)

01 > Main Building → Reception (Noble Salon) - 3rd december
02 > Civil Building (Congress Center)
03 > North Garden Building
04 > Mechanics Building I
05 > North Tower
06 > Electrical Engineering Building
07 > Information Technologies Building II
08 > Mechanics Building IV
09 > Information Technologies Building I
10 > Information Technologies Building III
11 > Mechanics Building II
12 > Mechanics Building III
13 > Canteen
14 > Students Association Building
15 > Playing Fields
16 > Swimming-Pool
17 > Social Action Building
18 > Copy Section
19 > Mining Building
20 > South Tower
21 > Chemistry Building
22 > South Garden Building
23 > Kindergarden
24 > Mathematics Building
25 > Physics Building
26 > Interdisciplinary Building → AFaro Amphitheatre

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Time	December 3, 2024
8:30am-6:30pm	**Workshops** "The 5th International Workshop on Machine Learning for EEG Signal Processing (MLESP 2024)" Chair: Larbi Boubchir, larbi.boubchir@univ-paris8.fr, Location: Grande Auditório "The 14th International Workshop on Biomedical and Health Informatics (BHI 2024)" Chairs: Bo Song, Weiwei Xu, bosong+BHI@drexel.edu, Location: Porto Santo Combine "Artificial Intelligence Techniques for BioMedicine and HealthCare" with BING: 1st Workshop on Biomedical Insights with NLP and Graph Analysis Chair: Ester Zumpano, e.zumpano@dimes.unical.it, Ylenia Galluzzo, SimonaRombo, ylenia.galluzzo01@unipa.it, Location: Navegadores Information Systems for Health Emergencies and Patients Oriented Research (IS-4HE&POR) Chair: Joao Luis de Miranda, jlmiranda@ipportalegre.pt 08H30 – INVITED SESSION – AI for Accelerating Drug discovery (IBM) 10H20 – INVITED SESSION – European Association of Hospital Pharmacists (EAHP) 14H00 – Papers presentation Location: AFaro Amphitheatre
8:30-12:30noon	"The 1st International Workshop on Artificial Intelligence in Drug Discovery and Drug Repositioning" Chair: Young-Rae Cho, youngcho@yonsei.ac.kr, Location: Galeão Combine "The 5th AI&BDvsPandemics (Artificial Intelligence & Big Data vs Pandemics)" with "Diversity, Equity and Inclusion in HealthCare - (DEIHC)" Chair: Ester Zumpano, e.zumpano@dimes.unical.it, Location: VIP International Workshop on High Performance Computing on Bioinformatics Chair: Che-Lun Hung, clhung@nycu.edu.tw, Location: Caravela I Integrating Symbiotic AI in Biomedical Informatics: a Workshop on Advanced SAI-based applications in Healthcare (SAI-Care 2024) Chair: Fabiola De Marco, Alessia Auriemma Citarella, and Huiru Zheng, fdemarco@unisa.it, Location: Room 01.1 "The 3rd Workshop on Network Science and Artificial Intelligence for Biomedicine & Health Informatics - Net-AI-BHI" Chair: Manuela Petti, Pietro Hiram Guzzi, Paolo Tieri, and Paola Stolfi, manuela.petti@uniroma1.it, Location: Room 02.1

	"15th Workshop on High performance Bioinformatics and Biomedicine (HiBB)" Chair: Mario Cannataro, cannataro@unicz.it, Location: Room 02.2 "The 2nd International Workshop on challenges and opportunities in Network Medicine and Multi-Omics bioinformatics' approaches for studying human complex diseases" Chair: Paola Paci, Giulia Fiscon, Federica Conte, paci@diag.uniroma1.it, fiscon@diag.uniroma1.it, federica.conte@iasi.cnr.it, Location: Room 02.3
1:30-6:30pm	"International Workshop on Foundations of Network Analysis" Chair: Marianna Milano, m.milano@unicz.it, Location: Galeão "Biomedical Informatics Applications in Translational Research and Rare Diseases" Chair: yanji xu, yanji.xu@nih.gov, Location: VIP "2nd International Workshop on Artificial Intelligence Based Multimodal Medical Diagnosis" Chair: Liang Zhao, liangzhao@dlut.edu.cn, Location: Caravela I Combine "LLMs and Graph Neural Networks for computational biology and medicine: with Eighth Edition of Workshop of Processes and Algorithms for Healthcare and Life Quality Improvement (CBPBL)" Chair: Pietro Hiram Guzzi, hguzzi@unicz.it, Pierangelo Veltri, Patrizia Vizza, and Raffaele Giancotti, vizzap@unicz.it, Location: Room 01.1 Combine "5th Workshop on High Performance Computing Methods and Interdisciplinary Applications for Fighting the COVID-19 Pandemic (HPC4COVID-19)" with "International Workshop on Interpretability and Causality in Machine Learning for Medicine" Chair: Mario Cannataro, cannataro@unicz.it, Chiara Zucco, chiara.zucco@unicz.it, Location: Room 02.1 "IoTBDH-2024: The 6th International Workshop on Internet of Things of Big Data for Healthcare" Chair: Jun Qi , jun.qi@xjtlu.edu.cn, Location: Room 02.2 "Artificial Intelligence and Computational Methods for Public Health and the Environment" Chair: Daniele Pala and Giovanna Nicora, daniele.pala@unipv.it Location: Room 02.3
8:30-12:30noon Online	"Biological ontologies and knowledge bases (BiOK)" (http://easybioai.com/bibm_biok2024/) Chair: Yongtian Wan, wangyt@nwpu.edu.cn "The 1st International Workshop on Foundation Models for Bioinformatics and Biomedicine" (https://fm4bio.tsynbio.com) Chair: Yiqing Shen, yshen92@jhu.edu "The 5th International Workshop on Deep Learning Techniques for Bioinformatics and Biomedicine (DLBIBM 2024)"

	Chair: Fuquan Zhang, zfq@mju.edu.cn 2024 CBEAS - Workshop on Computational Microbial Biofilm Engineering and Its Applications (https://cbeas.bicbioeng.net/) Chair: Etienne Gnimpieba Z, etienne.gnimpieba@usd.edu
Coffee Break (10:00-10:20am)	Coffee Break IST: Congress Centre, Hall -01 and Hall -02 Holiday Inn: Foyer (floor -1)
Lunch Break	Lunch (12:30pm – 2:00pm) IST: Congress Centre, Hall -01 and Hall -02 Holiday Inn: Restaurant (ground floor)
Coffee Break (4:00-4:20pm)	Coffee Break IST: Congress Centre, Hall -01 and Hall -02 Holiday Inn: Foyer (floor -1)
6:30-8:30PM	Welcome Reception: IST - Central Building, Noble Salon

Time	December 4
8:45-9:00am	Opening Ceremony Huiru (Jane) Zheng, Mario Cannataro, Joao Miranda, Xiaohua Tony Hu Location: Grande Auditório
Keynote Sessions (9:00-10:00am)	Keynote Talk: Dr. Sameer Antani Title : Impact of Data Characteristics on Medical Imaging AI Performance: Insights from Recent Research Chair: Huiru (Jane) Zheng Location: Grande Auditório
Coffee Break (10:00-10:20am)	Coffee Break IST: Congress Centre, Hall -01 and Hall -02 Holiday Inn: Foyer (floor -1)
10:15-12:00	Poster Setup, Location: Civil Engineering Hall, ground floor
Morning Sessions (10:20am-12:20pm)	Session 1: Bioinformatics and Computational Biology of Molecular Structure, Function and Evolution Chair: Ramgopal Mettu, Location: Açores Session 5: Computational Systems Biology Chair: Zelin Zang, Location: Porto Santo Session 9: Cross-Cutting Computational Methods and Bioinformatics of Disease Chair: Juan Liu, Location: Navegadores Session 14: Data Mining, Machine Learning, and Artificial Intelligence Chair: Juan Liu, Location: Room 02.1 Session 25: Data Mining, Machine Learning, and Artificial Intelligence - Biomedical Signal Analysis Chair: Xiaohui Yao, Location: Room 02.2
8:30am-6:30pm Workshop	"Workshop on Long Non-Coding RNAs: Mechanism, Function, and Computational Analysis (BIBM-LncRNA)" Online part: https://wvu.zoom.us/j/99354603536?pwd=mRCVtzDDwglrV2vSngNaeAfYbD8RuP.1 Chair: Don Adjeroh, donald.adjeroh@mail.wvu.edu, Location: Room 01.1 "Machine Learning and Artificial Intelligence in Bioinformatics and Medical Informatics (MABM2024)" co-located with "The 15th Integrative Data Analysis in Systems Biology and Data Science (IDASB 2024)" Chair: Haiying Wang, Huiru (Jane) Zheng, Hui Wang, hy.wang@ulster.ac.uk, Location: AFaro Amphitheatre

	Chair: Zhongming Zhao, Huiru (Jane) Zheng, Ming Xiao zhongming.zhao@uth.tmc.edu, Location: AFaro Amphitheatre Combined "Novel approaches in Systems Biology - combining mechanistic modeling and artificial intelligence" with "2024 Workshop on Artificial Intelligence for Biomarker Discovery (AI4BD 2024)" Chair: Anna Procopio anna.procopio@unicz.it, FangXiang Wu faw341@mail.usask.ca, Location: Caravela I "Large Foundation Models for Multi-Modal Learning in Bioinformatics and Biomedicine Informatics" Chair: Yang Yang, yangyang@cs.sjtu.edu.cn, Location: Caravela II
8:30-6:30pm Online	"The 8th International Workshop on Deep Learning in Bioinformatics, Biomedicine, and Healthcare Informatics (DLB2H 2024)" Chair: Mingon Kan, mingon.kang@unlv.edu
Lunch Break	Lunch provided by Conference (12:30pm – 2:00pm), IST: Congress Centre, Hall -01 and Hall -02 Holiday Inn: Restaurant (ground floor)
Afternoon Sessions I (2:00pm-4:00pm)	Session 4: Bioinformatics and Computational Biology of Molecular Structure, Function and Evolution (4) & Computational Systems Biology Chair: Marzia Settino, Location: Açores Session 10: Cross-Cutting Computational Methods and Bioinformatics of Disease Chair: Jaekwang Kim, Location: Porto Santo Session 15: Data Mining, Machine Learning, and Artificial Intelligence Chair: Giuseppe Agapito, Location: Navegadores Session 20: Data Mining, Machine Learning, and Artificial Intelligence - Biomedical Image Analysis Chair: Yafei Ou, Location: Room 02.1 Session 26: Data Mining, Machine Learning, and Artificial Intelligence - Biomedical Signal Analysis Chair: Shan Cong, Location: Room 02.2

Afternoon Workshop 2:00-6:00pm	"2nd International Workshop on Artificial Intelligence Based Multimodal Medical Diagnosis" Chair: Liang Zhao, liangzhao@dlut.edu.cn, Location: Room 02.3
Coffee Break (4:00-4:15pm)	Coffee Break IST: Congress Centre, Hall -01 and Hall -02 Holiday Inn: Foyer (floor -1)
(4:00-4:15pm)	Poster Display, Location: Civil Engineering Hall, ground floor
Afternoon Sessions II (4:15pm-6:00pm)	Session 2: Bioinformatics and Computational Biology of Molecular Structure, Function and Evolution Chair: Fang-Xiang Wu, Location: Açores Session 11: Cross-Cutting Computational Methods and Bioinformatics of Disease Chair: Xiujuan Lei, Location: Porto Santo Session 16: Data Mining, Machine Learning, and Artificial Intelligence Chair: Cherifi Dalila, Location: Navegadores Session 21: Data Mining, Machine Learning, and Artificial Intelligence - Biomedical Image Analysis Chair: Xiaoqin Tang, Location: Room 02.1 Session 27: Data Mining, Machine Learning, and Artificial Intelligence - Healthcare Chair: Rameshbabu Manyam, Location: Room 02.2

Time	December 5

Keynote Sessions (9:00-10:00am)	Keynote Talk: Prof. Shihua Zhang Title: Intelligent spatial transcriptomics: methods and applications Chair: Joao Miranda <u>Location: Grande Auditório</u>
Coffee Break (10:00-10:20am)	Coffee Break IST: Congress Centre, Hall -01 and Hall -02 Holiday Inn: Foyer (floor -1)
(10-10:20am)	Poster Display, Location: Civil Engineering Hall, ground floor
Morning Sessions (10:20am-12:20pm)	Session 3: Bioinformatics and Computational Biology of Molecular Structure, Function and Evolution Chair: Bo Xu, Location: Açores Session 6: Next Generation Sequencing and High-throughput Methods Chair: Timothy Becker, Location: Porto Santo Session 12: Big Data Analytics(1) & Cross-Cutting Computational Methods and Bioinformatics of Disease Chair: Bolin Chen, Location: Navegadores Session 17: Data Mining, Machine Learning, and Artificial Intelligence Chair: Marianna Milano, Location: Room 02.1 Session 22: Data Mining, Machine Learning, and Artificial Intelligence - Biomedical Image Analysis Chair: Jiayu Huo Location: Room 02.2
8:30-4:30pm Workshops	"Machine Learning for Biological and Medical Image Big Data (ML4BMI)" Chair: Fa Zhang, xfcui.uw@gmail.com, Location: VIP
8:30-4:30pm Workshops Online	"The 8th Workshop on Computational Methods for the Immune System Function (CMISF 2024)" Chair: Francesco Pappalardo, francesco.pappalardo@unict.it "The 15th International Workshop on Information Technology for Chinese Medicine (ITCM2024)" (Online, http://ieeeitcm.cn/) Chair: Yating Yin, ieee_itcm@163.com
Lunch Break	Lunch provided by conference (12:30pm – 2pm), IST: Congress Centre, Hall -01 and Hall -02 Holiday Inn: Restaurant (ground floor)

(12:30-2pm)	Poster Display, Location: Civil Engineering Hall, ground floor
Afternoon Sessions I (2:00pm-4:00pm)	Session 8: Cheminformatics and pharmacogenomics Chair: Xiujuan Lei, Location: Açores Session 13: Big Data Analytics Chair: Wenji Ma, Location: Porto Santo Session 18: Data Mining, Machine Learning, and Artificial Intelligence Chair: Mihail Popescu, Location: Navegadores Session 23: Data Mining, Machine Learning, and Artificial Intelligence (9) - Biomedical Image Analysis Chair: CHERIFI Dalila, Location: Room 02.1 Session 28: Data Mining, Machine Learning, and Artificial Intelligence (14) - Healthcare Chairs: Xin Dong and Xingzhi Zhou, Location: Room 02.2
	Soical Tour and Banquet (4:30--9pm) 1. Brief Presentation 2. Best Papers, Best Student Papers Awards Chairs : PC Chairs 3. Banquet Keynote speech Location: Tapada da Ajuda (ISA) https://www.isa.ulisboa.pt/en/visitors/venues-for-events

Time	December 6
Keynote Sessions (9-10am)	Keynote Talk: Prof. Pietro Liò Title: AI and Bioinformatics in Personalised Medicine Chair: Mario Cannataro, Location: Grande Auditório

8:30-12:30noon Workshops	"AI-Powered Approaches for Neuro Degenerative Disease and Autoimmune Disease Related Discovery" Chair: Prof. Mahua Bhattacharya, mb@iiitm.ac.in, Location: Caravela I
Coffee Break (10-10:20am)	Coffee Break IST: Congress Centre, Hall -01 and Hall -02 Holiday Inn: Foyer (floor -1)
(10-10:20am)	Poster Display , Location: Civil Engineering Hall, ground floor
Morning Sessions (10:20am-12:20pm)	Session 7: Cheminformatics and pharmacogenomics Chair: Weizhong Zhao , Location: Açores Session 19: Data Mining, Machine Learning, and Artificial Intelligence Chair: Jiayu Huo, Location: Porto Santo Session 24: Data Mining, Machine Learning, and Artificial Intelligence - Biomedical Image Analysis Chair: Yafei Ou, Location: Room 02.1
Lunch Break	Lunch provided by conference (12:30pm – 2pm), IST: Congress Centre, Hall -01 and Hall -02 Holiday Inn: Restaurant (ground floor)
(12:30-2:00pm)	Poster Display, Location: Civil Engineering Hall, ground floor

December 4: Morning Sessions (10:20am-12:20pm)

Session 1: Bioinformatics and Computational Biology of Molecular Structure, Function and Evolution (1)
Chair: Ramgopal Mettu
Email: rmettu@tulane.edu

R	B252 "Enhancing Gene Cluster Identification and Classification in Bacterial Genomes Through Synonym Replacement and Deep Learning" Zhihua Du, Ningyu Zhong, and Jianqiang Li
R	B717 "FibGrid: Characterizing Anatomical Pathways in Hypergrid for Direct Tract Segmentation" Yu Xie, Yazhe Zhai, Yifei He, Jiahao Yu, Jiaolong Qin, and Ye Wu
R	B907 "SVPS, pairwise whole genome alignment-based structural variant identification" Malcolm Todd, Lingling Jin, and Ian McQuillan
S	B899 "GPU Acceleration of Conformational Stability Computation for CD4+ T-cell Epitope Prediction" Jiarui Li, Samuel Landry, and Ramgopal Mettu
S	B1380 "Predicting Antibody Stability pH Values from Amino Acid Sequences: Leveraging Protein Language Models for Formulation Optimization" Takuya Tsutaoka, Noriji Kato, Toru Nishino, Yuangzhong Li, and Masahito Ohue
S	B633 "Partition, Predict and Assemble: Targeting Long RNA Secondary Structure Prediction" Xiaoya Fan, Yuming CUI, Zheng Zhao, Zengyou He, Qi Zhao, and Zhong Wang
S	B294 "ProtSolM: Protein Solubility Prediction with Multi-modal Features" Yang Tan, Jia Zheng, Liang Hong, and Bingxin Zhou

Session 5: Computational Systems Biology (1)
Chair: Zelin Zang
Email: zangzelin@westlake.edu.cn

R	B1502 "Prior-guided longitudinal metabolomic analysis" Kowshika Sarker, Ruoqing Zhu, Hannah Diane Holscher, and ChengXiang Zhai
R	B1499 "CRISPR-DBA: a deep learning framework for uncertainty quantification of CRISPR off-target activities" Xinzhe Cao and Peter Minary
S	B1666 "NeDRex-Web: An Interactive Web Tool for Drug Repurposing by Exploring Heterogeneous Molecular Networks" Andreas Maier, Elisa Anastasi, Olga Zolotareva, James Skelton, Maria Elkjaer, Ana Casas, Cristian Nogales, Harald Schmidt, Tim Kacprowski, David Blumenthal, Anil Wipat, Sepideh Sadegh, and Jan Baumbach
S	B1102 "scCADE: A Superior Tool for Predicting Perturbation Responses in Single-Cell Gene Expression Using Contrastive Learning and Attention Mechanisms" Jingfeng Ou, Jiawei Li, Zhiliang Xia, Shurui Dai, Yulian Ding, Yan Guo, Limin Jiang, and Jijun Tang
S	B1813 "Inferring Gene Regulatory Network Based on scATAC-seq Data with Gene Perturbation" Wei Shao, Yuti Liu, Shuang Zhang, Shuang Chen, Qiao Liu, and Wanwen Zeng
S	B1814 "Improving Genetic Perturbation Responses with A Comprehensive Biological Knowledge Graph" Yang Li, Rui Chen, Yuting Tan, Xue Zhong, Bingshan Li, and Zhijun Yin
R	B1449 "A Mixed Integer Linear Program for Post-translational Modification Characterization" Shengzhi Lai, Peize Zhao, Ning Li, and Weichuan Yu

Session 9: Cross-Cutting Computational Methods and Bioinformatics of Disease (1)
Chair: Juan Liu
Email: liujuan@whu.edu.cn

R	B260 "DeepTAPE Enhancing Systemic Lupus Erythematosus Diagnosis with Deep Learning Based on TCRβ CDR3 Sequences" Tongfei Shen, Miaozhe Huo, Wan Nie, Kaiqi Li, Ziwei Ma, Xikang Feng, and Shuai Cheng Li
R	B492 "SAMamba: Integrating State Space Model for Enhanced Multi-modal Survival Analysis" Wei Zhang, TONG CHEN, Wenxin Xu, and Xinyue LI
R	B540 "Emotion Recognition from Eye Movements Using Multi-way Autoregressive Model" Tian-Fang Ma, Xuan-Hao Liu, Wei-Long Zheng, and Bao-Liang Lu
S	B368 "GT-KGCN: Gene Essentiality Prediction with Graph Transformer and Kolmogorov-Arnold Network" Rukai Liu, Bing Jia, Baoqi Huang, Winston K.G. Seah, Fei Hao, and Dongjun Liu
S	B612 "What's the data say? An LLM-based system for interrogating experimental data" Douglas Craig and Sorin Draghici
S	B741 "KLDD: Kalman Filter based Linear Deformable Diffusion Model in Retinal Image Segmentation" Zhihao Zhao, Yinzheng Zhao, Junjie Yang, Kai Huang, Nassir Navab, and M.Ali Nasseri
S	B816 "Bootstrapping Radiography Pre-training via Siamese Masked Vision-Language Modeling with Complementary Self-distillation" Wenqiang LI, Luyang Luo, and Hao Chen

Session 14: Data Mining, Machine Learning, and Artificial Intelligence (1)
Chair: Linlin Li
Email: lilinlin@purdue.edu

R	B232 "Efficient Topology-Driven Clustering for Imbalanced Streaming Biomedical Data Analysis" Xiaopeng Luo, Yiqun Zhang, Yuzhu Ji, Peng Liu, and Taoting Xiao
R	B361 "Graph-guided Sequential Transfer for Medical Image Segmentation" Jingyun Yang
R	B682 "Adaptive Multi-Cognitive Objective Temporal Task Approach for Predicting AD Progression" Xuanhan Fan, Menghui Zhou, Yu Zhang, Jun Qi, Yun Yang, and Po Yang
S	B436 "A Multimodal Deep Neural Network for Causally Learning Chest X-ray Images" Qin Ma, Lin Zeng, Shikui Tu, and Lei Xu
S	B485 "Adaptive Differential Privacy via Gradient Components in Medical Federated Learning" Zechen Yu, Zhi Lu, Songfeng Lu, Yongquan Cui, Xueming Tang, and Junjun Wu
S	B532 "Split Learning Optimized For The Medical Field: Reducing Communication Overhead" Shuai Guo, Zhi Lu, Songfeng Lu, Yongquan Cui, Xueming Tang, and Junjun Wu
S	B1761 "CTP-LLM: Clinical Trial Phase Transition Prediction Using Large Language Models" Michael Reinisch, Jianfeng He, Chenxi Liao, Sauleh Siddiqui, and Bei Xiao

Session 25: Data Mining, Machine Learning, and Artificial Intelligence (11) - Biomedical Signal Analysis
Chair: Xiaohui Yao
Email: xiaohui.yao@hrbeu.edu.cn

R	B854 "FHRDiff: Leveraging Diffusion Models for Conditional Fetal Heart Rate Signal Generation" Xiaoqing Li, Yu Lu, Kee Yuan Ngiam, Zichang Yu, and Mohammad Shaheryar Furqan
R	B1092 "CELL: Supplementing Context for Multi-modal Few-shot Cardiologist" Huaicheng Zhang, Jiguang Shi, Yue Ge, Sheng Chang, Hao Wang, and Qijun Huang
R	B1450 "Wafformer: Wave-Frequency Cross-Prediction and Alignment for Knowledge-Enhanced Sleep Representation" Weining Weng, Yang Gu, Shuai Guo, Yuan Ma, Yuchen Liu, Yuan Jin, Fulong Xiao, and Yiqiang Chen
S	B1680 "Multi-modal Diffusion Network with Controllable Variability for Medical Image Segmentation" Haoyu Wang, Zheyu Zhang, Yueyi Zhang, Jing Zhang, Yunwei Ou, and Xiaoyan Sun
S	B1704 "Strong Multimodal Representation Learner through Cross-domain Distillation for Alzheimer's Disease Classification" Yulan Dai, Beiji Zou, Xiaoyan Kui, Qinsong Li, Wei Zhao, Jun Liu, and Miguel Bordallo López
S	B1860 "DeAFusion: Detail-Aware Image Fusion for Whitematter Hyperintensity Segmentation" Gyeongdeok Jo, Jonghun Kim, Bo-yong Park, and Hyunjin Park

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

Session 4: Bioinformatics and Computational Biology of Molecular Structure, Function and Evolution (4) & Computational Systems Biology (2)
  Chair: Marzia Settino
  Email: marzia.settino@unicz.it

R	B1019 "Efficient Antibody Structure Refinement Using Energy-Guided SE(3) Flow Matching" Jiying Zhang, Zijing Liu, Shengyuan Bai, He Cao, Yu Li, and Lei Zhang
R	B1852 "Integrating Biological Language Processing and Memory Attention Model for Protein-DNA Binding Residue Prediction" Shixuan Guan, Xiucai Ye, and Tetsuya Sakurai
R	B603 "MulMol: Transformer-based Multi-Task Molecular Representation Learning" Dengdeng Huang and Shikui Tu
R	B1459 "LSNSCDA: Unraveling CircRNA–Drug Sensitivity via Local Smoothing Graph Neural Network and Credible Negative Samples" Ziyu Fan, Yuanpeng Zhang, Yahan Li, Zeyu Zhong, and Lei Deng
S	B879 "MuSCaKDE - Multi-Scale modeling of Carbamoylated collagen: Kernel Density Estimation applied from all atom to rigid body simulation" Zara Msoili, Stéphanie Baud, and Hua Wong
S	B1790 "Impact of Extracellular Vesicles Derived from Human Placenta Cells on Neural Progenitor Cell Transcriptome Dynamics" Pallav Singh, Jessica Kinkade, Mohit Verma, Teka Khan, Toshihiko Ezashi, Nathan Bivens, R. Michael Roberts, Cheryl Rosenfeld, and Trupti Joshi

Session 10: Cross-Cutting Computational Methods and Bioinformatics of Disease (2)
  Chair: Jaekwang Kim
  Email: linux@skku.edu

R	B605 "Robust One-Shot Brain Tissue Segmentation via Patchwise Contrastive Learning and Dual-Head Variational Autoencoder" Feng Zhou, Fengjun Xi, Yanjie Zhou, Di Hu, Liyun Tu, and Yun Peng
R	B825 "MuST: Maximizing the Latent Capacity of Spatial Transcriptomics Data with Multi-modality Structure Transformation" Zelin Zang, Liangyu Li, Yongjie Xu, Jiahao Li, Chenrui Duan, Yi Sun, Zhen Lei, and Stan Z. Li
R	B1239 "Multi-Task Driven Multi-Level Dynamical Fusion for Single-Cell Multi-Omics Cell Type Annotation" Jiawei Li, Shizhan Chen, Zongbo Han, Wei Li, Jijun Tang, and Fei Guo
S	B892 "Comprehensive metapath-based heterogeneous graph transformer for gene-disease association prediction" Wentao Cui, shoubo li, Chen Fang, Qingqing Long, Chengrui Wang, Xuezhi Wang, and Yuanchun Zhou
S	B988 "GeneSUM: Large Language Model-based Gene Summary Extraction" Zhijian Chen, Chuan Hu, Min Wu, Qingqing Long, Xuezhi Wang, Yuanchun Zhou, and Meng Xiao
S	B1100 "LCCH:A low computational complexity hybrid model based on the half-router attention for biopharmaceutical indicators prediction" Yichen Song, Chenxi Xia, Simengxu Qiao, Changdi Li, Qunshan He, and Xinggao Liu
S	B1254 "Analysis of Imputation Techniques and Classification Types in the Improvement of Early Diagnosis of Infectious Diseases in Institutionalized Elderly People" Melisa Granda, Alberto Garcés Jiménez, Francisco Javier Bueno Guillén, Diego María Rodriguez Puyol, and José Manuel Gómez Pulido

Session 15: Data Mining, Machine Learning, and Artificial Intelligence (2)
Chair: Giuseppe Agapito
Email: agapito@unicz.it

R	B683 "Class-imbalanced Time Series Adaptation via Multi-Expert Consistency Entropy Minimization" Yuan Ma, Yang Gu, Shuai Guo, Weining Weng, Shijie Wen, and Yiqiang Chen
R	B747 "Tri-Hash Progressive Sampling Neural Attenuation Field for Sparse-View CBCT Reconstruction" Sisi Wang, Lijun Guo, Rong Zhang, Wenming He, Qiang Li, and Shangce Gao
R	B776 "Trustworthy Enhanced Multi-view Multi-modal Alzheimer's Disease Prediction with Brain-wide Imaging Transcriptomics Data" Shan Cong, Zhoujie Fan, Hongwei Liu, Yinghan Zhang, Xin Wang, Haoran Luo, and Xiaohui Yao
R	B824 "A Dual-stage Teacher-Student Representation Learning Framework for Semi-supervised Cardiac Image Segmentation" Yifan Zhang, Jiajun Zhao, Yang Zhao, and Xuan Yang

S	B563 "A Multi-Frequency Information Graph Representation for Graph Classification" Da Li, Liting Wang, and Zhiyun Lin
S	B618 "Auto-Sklong: A New AutoML System for Longitudinal Classification" Simon Provost and Alex Freitas

Session 20: Data Mining, Machine Learning, and Artificial Intelligence (6) - Biomedical Image Analysis
Chair: Yafei Ou
Email: ou.y.ac@m.titech.ac.jp

R	B211 "Local-Global Features Fusion Network for Distinguishing Radiolucent Jaw Lesions via CBCT" Yuan Wang, Chen Hua, Zikang Chai, Liang Mao, Zhijun Sun, and Juan Liu
R	B264 "2.5D ASF-UNet：Adjacent Slice Spatial Feature Fusion Model for WMH Segmentation from 3D MR Brain Image" Lan Huang, Yinglu Sun, Ziqi Zhao, Chunjie Guo, and Yan Wang
R	B292 "BiSeg-SAM: Weakly-Supervised Post-Processing Framework for Boosting Binary Segmentation in Segment Anything Models" Encheng Su, Hu Cao, and Alois Knoll
S	B242 "A Three-Step Framework for Automatically Registering Immunohistochemical and H&E Stained Whole Slide Images Targeting Clinical Applications" Yingjia Yang, Yuan Wang, Cheng Li, Dehua Cao, Baochuan Pang, Hailian Xiao, Junfeng Wang, and Juan Liu
S	B382 "Polyp-E: Benchmarking the Robustness of Deep Segmentation Models via Polyp Editing" Runpu Wei, Zijin Yin, Kongming Liang, Min Min, Chengwei Pan, Gang Yu, Haonan Huang, Yan Liu, and Zhanyu Ma
S	B465 "Decoupling Feature Representations of Ego and Other Modalities for Incomplete Multi-modal Brain Tumor Segmentation" Kaixiang Yang, Wenqi Shan, Xudong Li, Xuan Wang, Xikai Yang, Xi Wang, Pheng-Ann Heng, Qiang Li, and Zhiwei Wang
S	B515 "MSSOrg: a multi-scale SSM-based model for organoid location and classification" Xun Deng, Zhibing Li, Mei Gao, Shaolin Liang, Tianyu Sun, Zhipeng Shang, Yuhang Yang, Yafang Wei, Lun Hu, and Pengwei Hu

Session 26: Data Mining, Machine Learning, and Artificial Intelligence (12) - Biomedical Signal Analysis
Chair: Shan Cong
Email: shan.cong@hrbeu.edu.cn

R	B1624 "Tomo-NeRL: tomographic neural representation learning for implicit CT image reconstruction" Xiaoqin Tang, Boheng Tan, Yuanhao Guo, Xianping Yu, Jake Kendrick, and Mark Reynolds
R	B1625 "Att-EMD-Unet: A Novel weakly supervised perspective for ECG segmentation" Yuxin Lin and Wei Wang
S	B601 "ECG-LLM: Leveraging Large Language Models for Low-Quality ECG Signal Restoration" Longfei Liu, Guosheng Cui, Cheng Wan, Dan Wu, and Ye Li

S	B773 " Biomedically Informed ECG Synthesis: Customizing Cardiac Cycle Phases with Diffusion Model" Yuxin Lin, Jing Ma, Wei Wang, Zhihao Wu, Suyu Dong, Gongning Luo, and Kuanquan Wang
S	B1230 "Negative emotion recognition based on physiological signals using a CNN-LSTM model" Junjiao Sun, Jorge Portilla, and Andres Otero
S	B1564 "NarratingSleep: A Language Model-Based Framework for Sleep Staging" Jiarong Wu, Yifei Yang, and Xingjun Wang
S	B697 "Boundary-Enhanced and Density-Guided Contrastive Learning for Semi/Weakly Supervised Medical Image Segmentation" MENG ZHOU, FEI GAO, and Raymond Kai-yu TONG"

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

Session 2: Bioinformatics and Computational Biology of Molecular Structure, Function and Evolution (2)
 Chair: Fang-Xiang Wu
 Email: faw341@mail.usask.ca

R	B512 "Knowledge-guided Protein Complex Identification with Fuzzy-based Graph Representation Learning" Yue Yang, Guodong Li, Dongxu Li, Pengwei Hu, and Lun Hu
R	B658 "FEATURE-pHLA: Physico-chemical features efficiently predict peptide-HLA binding affinity" Hamda Alhosani, Raghvendra Mall, Ankita Singh, and Filippo Castiglione
R	B714 "GP-nano: a geometric graph network for nanobody polyreactivity prediction" Xiaolong Zhou, Qianmu Yuan, Shuangjia Zheng, Yu Wang, and Yuedong Yang
S	B1126 "DrugEL: Ensemble Learning Model for Identification of Druggable Proteins" Md. Mamun Ali, Kawsar Ahmed, Francis Bui, and Fang-Xiang Wu
S	B220 "PICNIC: refinement of AlphaFold2 tertiary structure predictions using deep 3D residual neural networks" Ross Stewart, Chenguang Zhao, Tong Liu, and Zheng Wang
R	B1586 "GATBind: Accurate protein-RNA binding sites prediction via graph attention networks with pre-trained language model" Siyuan Shen, Shangqian Wu, Jie Chen, Zhijian Huang, and Lei Deng

Session 11: Cross-Cutting Computational Methods and Bioinformatics of Disease (3)
Chair: Xiujuan Lei
Email: xjlei@snnu.edu.cn

R	B1344 "CIRCLE: scRNA-seq Data Clustering by Cluster-aware Iterative Contrastive Learning" Jinxian Wang, Weikang Jiang, Jihong Guan, and Shuigeng Zhou
R	B1600 "Prediction of miRNA-Disease Associations Based on Hybrid Gated GNN and Multi-Data Integration" Yeqiang Wang, Sharen Yun, Yuchen Zhang, and Xiujuan Lei
R	B1722 "Drug Combination Side Effect Prediction Based on Polypharmacy Network and GraphSAGE Algorithm" Haiqiang Xiao, Xiujuan Lei, Yuchen Zhang, and Fang-Xiang Wu
R	B1880 "Selecting interpretable features for cancer subtyping on multi-omics data"

	Tianyi Shi, Xiucai Ye, Dong Huang, and Tetsuya Sakurai
S	B1352 "BiDNAMamba: Pre-trained Bidirectional State Space Model for Motif Analysis in DNA" Guangjian Zeng, Xiaxia Yu, Siyuan Tao, Weiye Zhou, Momiao Xiong, and Shenying Fang
S	B915 "Fast and scalable off-target assessment for CRISPR guide RNAs using partial matches" Carl Schmitz, Jacob Bradford, Robert Salomone, and Dimitri Perrin

Session 16: Data Mining, Machine Learning, and Artificial Intelligence (3)
Chair: Cherifi Dalila
Email: dacherifi@yahoo.fr

R	B1176 "ACPNet: Enhancing Small-Scale Dieases Detection in Panoramic X-rays" Nan Gao, Junchao Zhu, Peng Chen, Jijun Tang, Feng Jiang, and Ronghua Liang
R	B1192 "MVKTrans: Multi-View Knowledge Transfer for Robust Multiomics Classification" Shan Cong, Zhiling Sang, Hongwei Liu, Haoran Luo, Xin Wang, Hong Liang, Jie Hao, and Xiaohui Yao
R	B1308 "MHSA: A Multi-scale Hypergraph Network for Mild Cognitive Impairment Detection via Synchronous and Attentive Fusion" Manman Yuan, Weiming Jia, Xiong Luo, Jiazhen Ye, Peican Zhu, and Junlin Li
S	B651 "BAformer: Boundary Adaptive Transformer for Medical Image Segmentation" Junlong Cheng, Jilong Chen, Lei Jiang, Chengrui Gao, Junren Chen, Ruoyu Li, and Min Zhu
S	B735 "Extrapolating Prospective Glaucoma Fundus Images through Diffusion in Irregular Longitudinal Sequences" Zhihao Zhao, Junjie Yang, Shahrooz Faghihroohi, Yinzheng Zhao, Daniel Zapp, Kai Huang, Nassir Navab, and M.Ali Nasseri
S	B834 "Tree Regularization for Visual Explanations of Cancer Cell Classification" Muhammad Umair Raza, Adil Nawaz, Victor C.M. Leung, Jianqiang Li, and Jie Chen
S	B925 "MGOD: Multi-Granular Outlier Detection with Clustlier Analysis" Qingsheng Chen, Mingjie Zhao, Yuzhu Ji, Xiaopeng Luo, Yiqun Zhang, and Yue Zhang

Session 21: Data Mining, Machine Learning, and Artificial Intelligence (7) - Biomedical Image Analysis
Chair: Xiaoqin Tang
Email: tangx0530@swu.edu.cn

R	B295 "Alternate Interaction Multi-Task Hierarchical Model for Medical Images" Yucheng Song, Yifan Ge, Jia Guo, Zhifang Liao, and Lifeng Li
R	B358 "Classifying Cervical OCT Images using Masked Autoencoders with VMamba" Qingbin Wang, Yuchen Pei, Jian Wang, and Yutao Ma
R	B422 "MatchSeg: Towards Better Segmentation via Reference Image Matching" Jiayu Huo, Ruiqiang Xiao, Haotian Zheng, Yang Liu, Sebastien Ourselin, and Rachel Sparks
R	B509 "PV-SSM: Exploring Pure Visual State Space Model for High-dimensional Medical Data Analysis" Cheng Wang, Xinyu Liu, Chenxin Li, Yifan Liu, and Yixuan Yuan

S	B614 "ADTAH: Neuron 3D Reconstruction Via Adaptive Distance Transformation and Adaptive Hessian Matrix" Chenyue Song, Wei Zhang, Feng Jiang, Deqin Zheng, Ruichen Gao, and Haiqi Zhu
S	B663 "Solving Blind Inverse Problem in Microscopy: Diffusion-based Zero-shot Isotropic Reconstruction" Hyun Jung Lee, Eunjung Jo, Minjoo Lim, Ji-Hye Oh, and Tae-Eui Kam
S	B1829 "Multi-modal Spatial Clustering for Spatial Transcriptomics Utilizing High-resolution Histology Images" Bingjun Li, Mostafa Karami, Masum Shah Junayed, and Sheida Nabavi

Session 27: Data Mining, Machine Learning, and Artificial Intelligence (13) - Healthcare
Chair: Rameshbabu Manyam
Email: rmanyam@emory.edu

S	B687 "CSSDM Ontology to Enable Continuity of Care Data Interoperability" Subhashis Das, Debashis Naskar, Sara Rodrı́guez González, Juan Manuel Corchado Rodrı́guez, and Pamela Hussey
S	B903 "Predicting Gene Relations with a Graph Transformer Network Integrating DNA, Protein, and Descriptive Data" Yibo Chen, Dong Xu, Richard Hammer, and Mihail Popescu
S	B791 "Group Signature with Time-Bound Keys for Secure E-health Record Sharing" Junze Lu, Chunqiang Hu, Conghao Ruan, Bin Cai, and Tao Xiang
R	B625 "3D Skull Completion via Two-stage Conditional Diffusion-Based Signed Distance Fields" Zhenhong Liu, Xudong Ru, Xingce Wang, Zhongke Wu, Yicheng Zhu, Chong Zhang, and Alejandro F Frangi
S	B1433 "Urinary Bladder Monitoring with a Wearable Device Based on Bioimpedance Measurements and Machine Learning" Pascal Fechner, Anika Groß, Jannik Lockl, Maximilian Röglinger, and Niklas Tscheuschner
R	B942 "C2RG: Parameter-efficient Adaptation of 3D Vision and Language Foundation Model for Coronary CTA Report Generation" Zhiyu Ye, Yue Sun, Wei Shi, Bang Yang, Shibin Wu, Hancong Wang, Cheng Xu, Hairong Zheng, Yining Wang, and Tong Zhang

December 5: Morning Sessions (10am-12am)

Session 3: Bioinformatics and Computational Biology of Molecular Structure, Function and Evolution (3)
  Chair: Bo Xu
  Email: boxu@dlut.edu.cn

R	B1244 "Secondary Structure-Guided Novel Protein Sequence Generation with Latent Graph Diffusion" Yutong Hu, Yang Tan, Andi Han, Lirong Zheng, Liang Hong, and Bingxin Zhou
R	B1562 "RBP-Former: Joint Prediction of RNA-protein Binding Sites on Full-length RNA Transcripts for Multiple RBPs" Yichong Li, Xiaojian Liu, Fan Cheng, Xiaoyong Pan, and Yang Yang

S	B1397 "SLP-T5: A New Method for Predicting Protein Sub-chloroplast Localization Based on Text-to-Text Transfer Transformer" Ge Kong, Jiao Wang, Yuanhao Fan, and Juan Wang
S	B374 "Protein Representation Learning with Sequence Information Embedding: Does it Always Lead to a Better Performance?" Yang Tan, Lirong Zheng, Bozitao Zhong, Liang Hong, and Bingxin Zhou
S	B576 "Prediction of miRNA family based on class-incremental learning" Yajun Liu, Lulu Qiu, Aimin Li, Rong Fei, Junhuai Li, and Fang-Xiang Wu
R	B1576 "Directed Evolution of Proteins via Bayesian Optimization in Embedding Space" Matouš Soldát and Jiří Kléma
S	B1746 "Prediction of single-stranded DNA binding proteins with protein language model" Siwen Wu, Jinbo Xu, and Jun-tao Guo

Session 6: Next Generation Sequencing and High-throughput Methods
  Chair: Timothy Becker
  Email: tbecker@conncoll.edu

S	B1775 "Target-oriented Reference Construction for supervised cell type identification in scRNA-seq" Xin Wei, Wenjing Ma, Zhijin Wu, and Hao Wu
S	B336 "Identification of cell-type-specific genes associated with autism by integrating gene expression and alternative polyadenylation profiles" Xingyu Bi, Liping Kang, and Xiaohui Wu
S	B1020 "Thioproline Modulates Gut Microbiota to Resist Colorectal Cancer" Jingjing Liu, Yixuan Wang, Jian Zhao, Quan Wang, Haiqing Si, and Xiaofeng Song
S	B1732 "iTARGET: Interpretable Tailored Age Regression for Grouped Epigenetic Traits" Zipeng Wu, Daniel Herring, Fabian Spill, and James Andrews
S	B1771 "m6A peak calling accounting for varying sequencing bias across regions and samples" Lanyu Zhang, Zhenxing Guo, Zhaohui Qin, and Zhijin Wu
R	B1456 "MFF-LncLoc: Subcellular Localization Prediction of lncRNAs Based on Multi-Feature Fusion Using Transformers" Ziyu Fan, Ying Jiang, Shuning Yang, and Lei Deng

Session 12: Big Data Analytics(1) & Cross-Cutting Computational Methods and Bioinformatics of Disease(4)
Chair: Bolin Chen
Email: blchen@nwpu.edu.cn

S	B1676 "GenoHoption: Bridging Gene Network Graphs and Single-Cell Foundation Models" Jiabei Cheng, Jiachen Li, Kaiyuan Yang, Hongbin Shen, and Ye Yuan
S	B1693 "BiotaFormer: Detecting biota in microscopic activated sludge images for wastewater treatment" Shuning Liu, Huizhen Chen, Rongkai Liu, Heyuan Shi, Chao Hu, and Ronghua Shi
S	B1300 "Exploring Natural Language Processing Model Acceleration in Molecular Dynamics Simulation Using High-Performance Computing and Machine Learning" Qi Du, Feng Wang, Hui Huang, Xiaoyu Wu, Heng Wan, and Chengkun Wu
R	B1043 "Chiral Molecular Graph Encoder for Medication Recommendation" Haifeng Liu, Nan Zhao, Junsheng Zhou, and Weiguang Qu
R	B1190 "Dual-Branch Contrast Enhancement for Drug Repositioning" Haifeng Liu, Qiuyu Long, and Nan Zhao

R	B1482 "Concept-based Biomedical Text Expansion via Large Language Models" Chenlian Zhou, Xinhui Tu, Tingting He, Weizhong Zhao, Cong Guo, Rui Fan, and Yinghao Xiong
R	B641 "Pathway Activity Autoencoders for Enhanced Omics Analysis and Clinical Interpretability" Pedro Henrique da Costa Avelar, Le Ou-Yang, Min Wu, and Sophia Tsoka

Session 17: Data Mining, Machine Learning, and Artificial Intelligence (4)
Chair: Marianna Milano
Email: m.milano@unicz.it

R	B1351 "RNASite: A one-stop tool website that integrates multiple RNA modification site databases and servers" Jiahao Yuan, Xingfeng Li, Zilong Zhang, Qingchen Zhang, Quan Zou, and Feifei Cui
R	B1422 "Enriching molecular graph representation via substructure learning" Honghao Wang, Acong Zhang, and Ping Li
R	B1440 "JojoSCL: Shrinkage Contrastive Learning for single-cell RNA sequence Clustering" Ziwen Wang
S	B1406 "Deformable registration framework for glioma images with absent correspondence based on auxiliary-image-aided intensity-consistency constraint" Kun TANG, Lihui WANG, Menglong YANG, Jingwen XU, Xinyu CHENG, Jian ZHANG, Yuemin ZHU, and Hongjiang WEI
S	B1315 "RCNet: A Redundant Compression Network Using Information Bottleneck for Pathology Whole Slide Image Classification" Hongxuan Yu, Jiayi Wu, Jichen Xu, Shuhao Wang, Wei Wang, Siyi Chai, and Jingmin Xin
S	B1645 "ImmuFold: High-Accuracy Antibody Structure Prediction with Efficient Network" Shengyuan Bai, Zijing Liu, Jiying Zhang, and Yu Li
S	B986 "HCCL: Hierarchical Channels and Contrastive Learning for Drug-Gene Multi-Relation Prediction" Yizhe Shang, Jianrui Chen, Xiujuan Lei, and Fang-xiang Wu,

Session 22: Data Mining, Machine Learning, and Artificial Intelligence (8) - Biomedical Image Analysis
Chair: Jiayu Huo
Email: jiayu.huo@kcl.ac.uk

R	B550 "MDKFusion: Medical Domain Knowledge-Inspired Area Amplification Network for Multi-Sequence MRI Image Fusion in Ischemic Stroke" Min Li, Pahati Tuxunjiang, Feng Li, Enguang Zuo, Xiaoyi Lv, Yunling Wang, Chen Chen, and Cheng Chen
R	B557 "Jointly Estimation of Microstructure Maps Across Acquisition Protocols" Tenglong Wang, Jiahao Yu, Yiang Pan, Jianzhong He, Yifei He, and Ye Wu
R	B600 "Advancing Ultrasound Medical Continuous Learning with Task-Specific Generalization and Adaptability" Chunzheng Zhu, Jianxin Lin, Guanghua Tan, Ningbo Zhu, Kenli Li, Chunlian Wang, and Shengli Li
R	B692 "Efficient Large-Scale Pre-Trained Model Guided MR Imaging Super-Resolution" Fenghang Zhang, Guang Feng, Xizhan Gao, and Sijie Niu

S	B667 "SemiSAM: Enhancing Semi-Supervised Medical Image Segmentation via SAM-Assisted Consistency Regularization" Yichi Zhang, Jin Yang, Yuchen Liu, Yuan Cheng, and Yuan Qi
S	B1518 "Flemme: A Flexible and Modular Learning Platform for Medical Images" Guoqing Zhang, Jingyun Yang, and Yang Li
S	B1845 "IBATree: A Novel Method for Interpretable Cancer Cell Diagnosis Using Information Bottleneck Attribution" Muhammad Umair Raza, Adil Nawaz, Faisal Saeed, Victor C.M Leung, Jianqiang Li, and Jie Chen

December 5: Afternoon Sessions I (2pm-4pm)

Session 8: Cheminformatics and pharmacogenomics (2)
  Chair: Xiujuan Lei
  Email: xjlei@snnu.edu.cn

R	B1388 "MLFF-DTA: A Multi-Level Feature Fusion Method for Predicting Drug-Target Binding Affinity" Jiao Wang, Ge Kong, and Juan Wang
R	B1521 "Causal Invariant Hierarchical Molecular Representation for Out-of-distribution Molecular Property Prediction" Xinlong Wen, Yifei Guo, Shuoying Wei, Wenhan Long, Lida Zhu, and Rongbo Zhu
R	B1870 "AffinityLM: Binding-Site Informed Multitask Language Model for Drug-Target Affinity Prediction" Tyler Rose, Charlotte Zhou, and Nicolo Monti
R	B216 "Subgraph-based Self-Supervised Learning Framework for Enzymatic Reaction Feasibility Prediction" Feng Yang, Juan Liu, Qiang Zhang, Zhihui Yang, Jianghang Liu, and Guangsheng Wu
R	B1364 "Muli-Task Dual-view Model for Drug Combination Analysis: In Vivo and In Vitro Perspectives" Yuhe YANG, Zhaoyue ZHANG, Xueqin XIE, Wei Su, Kejun Deng, and Hao Lin
S	B990 "Unveiling HDAC8 antagonists for breast cancer therapy via molecular modeling" Vaishali Pankaj, Inderjeet Bhogal, and Sudeep Roy

Session 13: Big Data Analytics (2)
Chair: Wenji Ma
Email: wenjimacs@sjtu.edu.cn

R	B1757 "Towards Cross-Modal Text-Molecule Retrieval with Better Modality Alignment" Jia Song, Wanru Zhuang, Yujie Lin, Liang Zhang, Chunyan Li, Jinsong Su, Song He, and Xiaochen Bo
R	B812 "The identification of cancer stage-related driving factors based on network smoothing and gravity model" Bolin Chen, Jinlei Zhang, Yourui Han, Bian Jun, and Xuequn Shang
S	B940 "Enhancing Atlas Construction via Edge-Assisted 3D Latent Diffusion Models for Brain MRI Generation" Sheng Xu and Yi Hong

S	B1628 "scMonica: Single-cell Mosaic Omics Nonlinear Integration and Clustering Analysis" Xiaoli Li, Saba Aslam, Rui Zhang, Huijun Li, Yuxi Chen, Zequn Zhang, Ruey-Song Huang, and Hongyan Wu
S	B1662 "Deep Learning-based Modelling of Complex Hypertensive Multi-Organ Damage with Uncertainty Quantification from Simple Clinical Measures" Turkay Kart, Mohanad Alkhodari, Winok Lapidaire, Abhirup Banerjee, Adam J. Lewandowski, and Paul Leeson
R	B1144 "MD-Dose: A diffusion model based on the Mamba for radiation dose prediction" Linjie Fu, Xia Li, Xiuding Cai, Xueyao Wang, Yali Shen, and Yu Yao

Session 18: Data Mining, Machine Learning, and Artificial Intelligence (5)
Chair: Mihail Popescu
Email: popescum@health.missouri.edu

R	B1522 "Radiographic Reports Generation via Retrieval Enhanced Cross-modal Fusion" Xia Hou, Yifan Luo, Wenfeng Song, Yuting Guo, Wenze You, and Shuai Li
R	B1572 "Joint Segmentation of Primary Nasopharyngeal Carcinoma Tumors and Lymph Nodes via Global Attention" Guihua Tao, Ziqin Ling, Haojiang Li, Jiangning Song, and Hongmin Cai
R	B1585 "Multimodal Bayesian Networks for Automatic Skin Disease Diagnosis" Yunqi He, Jiahe Liu, Linglong Cai, You Li, Taimei Cui, and Hai Zhou
S	B1723 "Identification of Depression-Related Electroencephalographic Patterns Using Astrocyte Spiking Neural Network" Jing Fan, Junwen He, Yuhan Zheng, Hong-Yu Zhang, and Hui Peng
S	B533 "Alifuse: Aligning and Fusing Multimodal Medical Data for Computer-Aided Diagnosis" qiuhui chen and Yi Hong
S	B479 "Document-level Biomedical Relation Extraction Based on Relation-guided Entity-level Graphs" Liangyu Gao, Zhihao Yang, Haixin Tan, Lei Wang, Wei Liu, Yin Zhang, Ling Luo, Bo Xu, Jian Wang, Yumeng Yang, Zhehuan Zhao, Yuanyuan Sun, and Hongfei Lin

Session 23: Data Mining, Machine Learning, and Artificial Intelligence (9) - Biomedical Image Analysis
Chair: CHERIFI Dalila
Email: dacherifi@yahoo.fr

R	B783 "A4-Unet: Deformable Multi-Scale Attention Network for Brain Tumor Segmentation" Ruoxin Wang, Tianyi Tang, Haiming Du, Yuxuan Cheng, Yu Wang, Lingjie Yang, Xiaohui Duan, Yunfang Yu, Yu Zhou, and Donglong Chen
R	B939 "UP-SAM: Uncertainty-Informed Adaptation of Segment Anything Model for Semi-Supervised Medical Image Segmentation" Wenjing Lu, Yi Hong, and Yang Yang
R	B1319 "Improved Self-supervised Monocular Endoscopic Depth Estimation based on Pose Alignment-friendly Dynamic View Selection" Ying Zhou, Shiquan He, Hao Wang, Fan Huang, Mei Liu, Qiang Li, and Zhiwei Wang

S	B1193 "Image2SignalNet: Image-based deep learning approach for capturing neuronal signals from calcium imaging" Eunjung Jo, Dong-Hee Shin, Ji-Hye Oh, Sanghyeon Cho, Hyun Jung Lee, and Tae-Eui Kam
S	B1217 "Leveraging CORAL-Correlation Consistency Network for Semi-Supervised Left Atrium MRI Segmentation" Xinze Li, Runlin Huang, Zhenghao Wu, Bohan Yang, Wentao Fan, Chengzhang Zhu, and Weifeng Su
S	B1280 "MamMIL: Multiple Instance Learning for Whole Slide Images with State Space Models" Zijie Fang, Yifeng Wang, Ye Zhang, Zhi Wang, Jian Zhang, Xiangyang Ji, and Yongbing Zhang
S	B1348 "Context-Aware Multi-Organ Segmentation in Abdominal CT via LoRA-Fine-tuned MedSAM" Lihang Zeng, Zhenhong Liu, Xingce Wang, Zhongke Wu, Xiaodong Ju, Yi-Cheng Zhu, and Chong Zhang

Session 28: Data Mining, Machine Learning, and Artificial Intelligence (14) - Healthcare

Chair: Xin Dong and Xingzhi Zhou
Email: x_dong@bjtu.edu.cn, xzhoubl@connect.ust.hk

R	B1717 "Benchmarking Distance Functions in Siamese Networks for Current and Prior Mammogram Image Analysis" Sahand Hamzehei, Afsana Ahsan Jeny, Annie Jin, Clifford Yang, and Sheida Nabavi
R	B1418 "PRIDE: Pediatric Radiological Image Diagnosis Engine Guided by Medical Domain Knowledge" Yuze Zhao, Shijie Pang, Zhuoyao Wang, Wen He, Yingwen Wang, Ruiwei Zhao, Rui Feng, and Xiaobo Zhang
S	B853 "TCM-FTP: Fine-Tuning Large Language Models for Herbal Prescription Prediction" Xingzhi Zhou, Xin Dong, Chunhao Li, Yuning Bai, Yulong Xu, Ka Chun Cheung, Simon See, Xinpeng Song, Runshun Zhang, Xuezhong Zhou, and Nevin L. Zhang
S	B1121 "Counterfactual Trajectories Prediction for Features of Non-Communicable Disease" Zhoujian Sun, Wenzhuo Zhang, Zhengxing Huang, and Cheng Luo
S	B1343 "PresRecCD: A Novel Herbal Prescription Recommendation Framework with Cross-Domain Learning and Neural Collaborative Filtering" Wansong Zhang, Xin Dong, Kuo Yang, Zhang Lei, Xinyu Wang, Rouye Huang, Runshun Zhang, and Xuezhong Zhou
S	B1652 "Classification of Keratitis from Eye Corneal Photographs using Deep Learning" Maria Miguel Beirão, João Matos, Tiago Gonçalves, Camila Kase, Luis Filipe Nakayama, Denise de Freitas, and Jaime S. Cardoso

December 5: Afternoon Sessions II Social Activity and banquet

December 6: Morning Sessions (10:20am-12:20am)

Session 7: Cheminformatics and pharmacogenomics (1)
Chair: Weizhong Zhao
Email: zhaowz81@163.com

R	B626 "Molecular Property Prediction by Contrastive Learning from Joint-Aggregator Neural Network" Zhihui Yang, Feng Yang, and Juan Liu
R	B992 "Novelty Encouraged Beam Clustering Search for Multi-Objective De Novo Diverse Drug Design" Dengwei Zhao, Shikui Tu, and Lei Xu
R	B1070 "MFCM-DTI model of multimodal feature fusion: prediction of drug-target interaction" WENJUN LI, Wanjun Ma, Mengyun Yang, and Xiwei Tang
S	B1417 "Exploring Latent Space for Generating Peptide Analogs Using Protein Language Models" Po-Yu Liang, Xueting Huang, Tibo Duran, Andrew Wiemer, and Jun Bai
R	B1245 "CSCL-DTI: predicting drug-target interaction through cross-view and self-supervised contrastive learning" Xuan Lin, Xi Zhang, Zu-Guo Yu, Yahui Long, Xiangxiang Zeng, and Philip S Yu
R	B1299 "PretrainedBA: Enhancing Compound-Protein Binding Affinity Prediction Accuracy via Pre-training Large-Scale Interaction Information" Sangmin Seo, Seungyeon Choi, Hwanhee Kim, and Sanghyun Park

Session 19: Data Mining, Machine Learning, and Artificial Intelligence (6)
Chair: Jiayu Huo
Email: jiayu.huo@kcl.ac.uk

R	B1765 "Advancing Semi-Supervised EEG Emotion Recognition through Feature Extraction with Mixup and Large Language Models" Shiyi Yao, Longfei Liu, Jingyi Lu, Dan Wu, and Ye Li
R	B1839 "Empowering Cross-Patient Epilepsy Diagnosis from Diverse-Sampling Low-Quality EEG Signals" Yanshen Sun, Jianger Yu, and Chang-Tien Lu
R	B324 "A Novel Knowledge Enhanced Large Language Model Augmented Framework for Medical Question Answering" Haochen Zou and Yongli Wang
R	B648 "Exploring Optimal Transport-Based Multi-Grained Alignments for Text-Molecule Retrieval" Zijun Min, Bingshuai Liu, Liang Zhang, Jia Song, Jinsong Su, Song He, and Xiaochen Bo
R	B1483 "MAT: Medical AI-generated Text Detection Dataset from Multi-models and Multi-Methods" Bo Xu, Ruiyuan Wang, Lingfan Ping, Chaoyue Zhu, Xiaoxia Liu, Hongfei Lin, Linlin Tian, and Feng Xia

Session 24: Data Mining, Machine Learning, and Artificial Intelligence (10) - Biomedical Image Analysis
Chair: Yafei Ou
Email: ou.y.ac@m.titech.ac.jp

R	B1519 "A Scaled Mask Attention-based Hybrid model for Survival Prediction"

	Masum Shah Junayed and Sheida Nabavi
R	B1569 "Semi-Supervised Medical Image Segmentation with Cross-View Consistency and Contrastive Learning" Bo Sun, Kexuan Li, Jingjuan Liu, Zhen Sun, Xuehao Wang, Huadan Xue, Aimin Hao, Shuai Li, and Yi Xiao
R	B1633 "Human-Machine Integration to Enhance Clinical Typing and Fine-Grained Interpretation of Cervical OCT Images" Mi Yin, Yuchen Pei, and Yutao Ma
R	B1719 "Transformer-Based Multi-Scale Fusion for Robust Predicting Microsatellite Instability from Pathological Images" Taiyuan Hu, Haijing Luan, Rui Yan, Jifang Hu, Kaixing Yang, Xinyin Han, Weier Liu, Jiayin He, Xiaohong Duan, Ruilin Li, Fa Zhang, and Beifang Niu
S	B1395 "D-SarcNet: A Dual-stream Deep Learning Framework for Automatic Analysis of Sarcomere Structures in Fluorescently Labeled hiPSC-CMs" Huyen Le, Khiet Dang, Nhung Nguyen, Mai Tran, and Hieu Pham

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P205	Junghun Han, Kyung Jin Eoh, Myoung-Chone An, San-Hui Lee, and Sejung Yang, *Enhancing Endoscopic Surgical Imaging: AI-Based Smoke Removal and Image Enhancement*
P206	Yuseong Chu, Solam Lee, Mi Ryung Roh, Byungho Oh, and Sejung Yang, *Prediction of scar severity after thyroidectomy using deep learning*
P207	Jin Gyo Jeong, Ji Seung Ryu, Jhii-Hyun Ahn, and Sejung Yang, *Pancreatic Anomaly Detection in Abdominal CT Images using Latent Diffusion Models*
P208	Sena Lee, Yeonwoo Heo, Solam Lee, and Sejung Yang, *Automated Assessment of Facial Vitiligo Using Multi-View UV Images and Landmark-Based Facial Region Subdivision*
P209	Hyunyoung Kang, Yuseong Chu, Byungho Oh, Solam Lee, Jiye Kim, and Sejung Yang, *Development and Application of Automated Wound Tissue Segmentation Algorithm*
P210	Yerin Lee, Young Joon Seo, and Sejung Yang, *Evaluation of nystagmus and direction in videonystagmography using wavelet transform and deep learning*
P211	Jiseung Ryu, Youngjun Park, and Sejung Yang, *A Deep Learning Ensemble Model Based on ECG for the Diagnosis of Variant Angina*
P212	Geunhye Kim, Sena Lee, Juryeong Jeong, Yongkyu Jin, and Sejung Yang, *Improving Dental Alignment Accuracy with 3D Scanning and Deep Learning Model Optimization*
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P216	Zhiqiang Liu, Ziyu Shi, Gengjia Zhang, Jaehyo Jung, and Meina Li, *Mental Stress Detection Using PPG Signals Based on Transformer-LSTM Model*

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