

# Final Program

The 2024 Twentieth
International Conference on
Intelligent Computing

August 5-8, 2024 Tianjin, China

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### Welcome Message From General Chairs

The International Conference on Intelligent Computing (ICIC) was started to provide an annual forum dedicated to the emerging and challenging topics in artificial intelligence, machine learning, pattern recognition, bioinformatics, and computational biology. It aims to bring together researchers and practitioners from both academia and industry to share ideas, problems, and solutions related to the multifaceted aspects of intelligent computing.

ICIC 2024, held in Tianjin, China, August 5-8, 2024, constituted the 20th International Conference on Intelligent Computing. It built upon the success of ICIC 2023 (Zhengzhou, China), ICIC 2022 (Xi'an, China), ICIC 2021 (Shenzhen, China), ICIC 2020 (Bari, Italy), ICIC 2019 (Nanchang, China), ICIC 2018 (Wuhan, China), ICIC 2017 (Liverpool, UK), ICIC 2016 (Lanzhou, China), ICIC 2015 (Fuzhou, China), ICIC 2014 (Taiyuan, China), ICIC 2013 (Nanning, China), ICIC 2012 (Huangshan, China), ICIC 2011 (Zhengzhou, China), ICIC 2010 (Changsha, China), ICIC 2009 (Ulsan, South Korea), ICIC 2008 (Shanghai, China), ICIC 2007 (Qingdao, China), ICIC 2006 (Kunming, China), and ICIC 2005 (Hefei, China).

This year, the conference concentrated mainly on the theories and methodologies as well as the emerging applications of intelligent computing. Its aim was to unify the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications. Therefore, the theme for this conference was "Advanced Intelligent Computing Technology and Applications". Papers that focused on this theme were solicited, addressing theories, methodologies, and applications in science and technology.

ICIC 2024 received 2189 submissions from 15 countries and regions. All papers went through a rigorous peer-review procedure and each paper received at least three review reports. Based on the review reports, the Program Committee finally selected 863 high-quality papers for presentation at ICIC 2024, included in twenty-one volumes of proceedings published by Springer: thirteen volumes of Lecture Notes in Computer Science (LNCS), six volumes of Lecture Notes in Artificial Intelligence (LNAI), and two volumes of Lecture Notes in Bioinformatics (LNBI).

In addition, this year we selected 133 Poster papers from the left papers, which will be arranged on the open access website <a href="http://poster-openaccess.com/">http://poster-openaccess.com/</a>.

The organizers of ICIC 2024, including Eastern Institute of Technology, Ningbo, China, Tianjin University of Science and Technology, China University of Mining & Technology (Beijing), China University of Mining and Technology (Xuzhou), China, and North China University of Science and Technology, China, made an enormous effort to ensure the success of the conference. We hereby would like to thank the members of the Program Committee and the referees for their collective effort in reviewing and soliciting the papers. In particular, we would like to thank all the authors for contributing their papers. Without the high-quality submissions from the authors, the success of the conference would not have been possible. Finally, we are especially grateful to the International Neural Network Society, and the National Science Foundation of China for their sponsorship.

ICIC 2024 General Chairs Deshuang Huang, Fuping Lu

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### The Location of Conference Venue

#### **Conference Venue**

The venue for the ICIC 2024 conference is Tianjin Binhai One Hotel (http://hotel109929.round-world-trip.com/en), located in the Huanggang Leisure Residential Area on Jiafeng Road, Binhai New Area. It is conveniently situated near the Beitang Toll Station of the Beijing-Tianjin Expressway and Tianjin Binhai West Station. This garden-style conference resort hotel offers a blend of accommodation, dining, meetings, wellness, and leisure. The hotel spans a total area of 266,000 square meters, featuring nearly 200,000 square meters of lakes, greenery, and fountains. The architecture combines the elegant gardens of southern China with the grandeur of northern China's traditional structures.

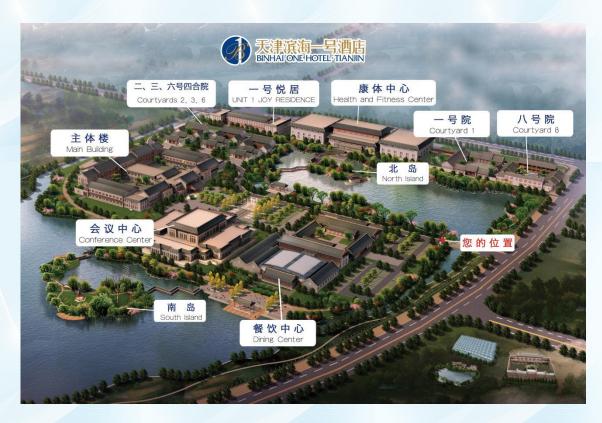
The main building has a total area of 19,133 square meters and includes 232 deluxe guest rooms. Inside, there are two interior courtyards, allowing all inner-view rooms to enjoy garden views, creating a picturesque atmosphere. The main building consists of 164 deluxe twin rooms, 60 deluxe king rooms, and 8 deluxe suites. Twin and king rooms are 45 square meters, while suites range from 60 to 80 square meters. Each room is fully equipped with amenities such as a bathtub, domestic long-distance phone, air conditioning, electric kettle, independent writing desk, hairdryer, various power outlets, magnifying makeup mirror, safe, mini fridge, bottled water, umbrella, electronic scale, down quilt, iron/ironing board, LCD TV, 24-hour hot water, high-speed internet, and free Wi-Fi. Additionally, there are 10 parent-child king rooms, which include features like a children's tent, toys, books, child-sized bathrobe, slippers, hangers, mouthwash cup, toothbrush, towel, and bath toys.

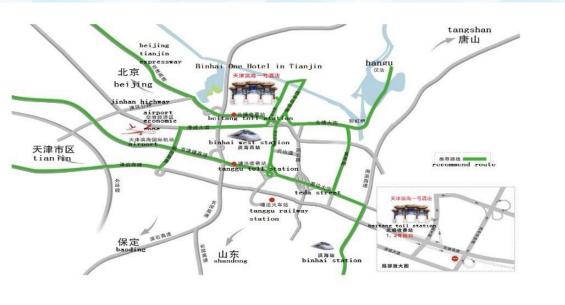
Binhai One Residence, with a total area of approximately 5,737 square meters, is located on the northwest side of Binhai One Hotel, adjacent to the hotel's north gate, health center, and courtyard, and close to the hotel's north lake. The Residence offers comprehensive facilities, including conference rooms, restaurants, and shared laundry rooms, meeting various needs. Its functional areas are designed simply and elegantly, providing continuous high-quality service.

The dining center, with a total area of nearly 8,000 square meters, includes a column-free banquet hall that can accommodate 600 diners, a buffet restaurant with 200 seats, a Chinese restaurant with 100 seats, and 16 luxury private dining rooms, accommodating a total of 1,200 diners. The experienced chef team provides a variety of gourmet dishes, including local seafood, Tianjin cuisine, Cantonese cuisine, Sichuan cuisine, and Shandong cuisine, allowing guests to enjoy exquisite food while savoring life's pleasures.

### **Location and Road Map**

For ICIC 2024, the venue for the registration on the first day (Aug. 5, 2024) of the conference is Tianjin Binhai One Hotel.





### **General Information**

### I. Conference Working Language

English is the official language of the conference.

### **II. Conference Registration**

The ICIC 2024 registration desk, located in the lobby of Main Building, Binhai One Hotel, Tianjin, the first floor, will be open during the following hour:

- August 5, 2024 (Monday) 2:00pm-8:00pm
- August 6, 2024 (Tuesday) 8:30am-6:00pm
- August 7, 2024 (Wednesday) 8:30am-6:00pm

#### **III. Conference Events**

The ICIC 2024 events are scheduled as follows:

- All the meals: Man Ting Fang(满庭芳), Dinning Center, Binhai One Hotel, Tianjin, the first floor.
- Banquet: 7:00 pm-9:00 pm, August 7, 2024 (Wednesday): Man Ting Fang(满庭芳), Dinning Center, Binhai One Hotel, Tianjin, the first floor.

#### IV. Conference Rooms

- Plenary Lecture, Binhai Hall (滨海厅), Conference Center, Binhai One Hotel, Tianjin, the first floor
- Room A, The First Meeting Room (第一会议室), Conference Center, Binhai One Hotel, Tianjin, the first floor.
- Room B, The Second Meeting Room (第二会议室), Conference Center, Binhai One Hotel, Tianjin, the first floor.
- Room C, The Third Meeting Room (第三会议室), Conference Center, Binhai One Hotel, Tianjin, the first floor.
- Room D, The Fourth Meeting Room (第四会议室), Conference Center, Binhai One Hotel, Tianjin, the first floor.
- Room E, The Sixth Meeting Room (第六会议室), Conference Center, Binhai One Hotel, Tianjin, the first floor.
- Room F, The Second Reception Room (第二接待室), Conference Center, Binhai One Hotel, Tianjin, the first floor.
- Room G, The Hotel Meeting Room(酒店会议室), Main Building, Binhai One Hotel, Tianjin, the first floor.
- Room H, Comprehensive Lecture Hall, Tiankai Higher Education Science and Technology Innovation Park, No. 18 Keyan West Road, Nankai District, Tianjin
- **Room I**, Lecture Hall of Yanquan Building, Tianjin University of Science and Technology, Tianjin, the 7th floor.
- Room J, 8-209, Tianjin University of Science and Technology, Tianjin, the second floor.
- Room K, 8-220, Tianjin University of Science and Technology, Tianjin, the second floor.

• Room L, The Lobby of Conference Center, Binhai One Hotel, Tianjin, the first floor.

### V. Information for Oral Presenters

- Please prepare a 7-9-minute PowerPoint (PPT) slide. Your actual presentation time may depend on the number of presentations in your session.
- Please check this Final Program for your presentation time and room. Please go to the room five minutes before the session starts and report to the Session Chair.
- Please follow the instructions of the Session Chair(s) not to exceed your time allotted to you by them.
- If the Session Chair(s) is/are absent from the session, the last speaker is requested to serve as the Session Chair.

#### VI. Information for Session Chairs

The Organizing Committee would like to ask for your kind help as Session Chair (s). If you cannot fulfill your duties as session chair, please try to make sure that someone else will take your place as Session Chair(s).

As a Session Chair, you are kindly requested to help at the following:

- Arrive at the room of the session at least 5 minutes before the session starts and identify each of the speakers for the session.
- Calculate and announce the time allocated for each paper in your session for only the authors
  present before the session starts.
- The time allocated to a paper may be different in different sessions, due to uneven distribution of papers in different areas and a small number of absentees due to visa and other reasons. Request the presenters to leave 2 minutes for question and answers.
- Each oral presentation room is equipped with an LCD projector. If something is not working properly, please contact conference helper in the room.

### **Schedule Overview**

Date	Morning	Afternoon	Evening
August 5 Monday	Registration (2:00pm -8:00pm), the lobby of Main Building		
	Opening Ceremony Session Host:Chualei Zhang, 08:00am-08:20 am	Lunch time: 12:15pm-1:30pm, Man Ting Fang(满庭芳), Dinning Center	
August 6 Tuesday (Binhai Hall(滨海	Plenary Speaker I: Shengyong Chen Chair: Chuanlei Zhang 08:20am-08:55 am	Oral Presentation 1:30pm-3:40pm Room A, Room B, Room C,	
	Plenary Speaker II: Dong Ming Chair: De-Shuang Huang 08:55am-09:30 am Plenary Speaker III: Ying Qu Chair: Prashan Premaratne 9:30am-10:05 am	Room D, Room E, Room F, Room G Poster Presentation 1:30pm-3:40pm Room L Workshop Room I, Room J	Dinner: 6:00pm-7:30 pm Man Ting Fang(满庭芳), Dinning Center
厅), Conference	Coffee Break: 10:05am-10:15 am	Coffee Break: 3:40pm-3:50 pm	
Center, the first floor)	Plenary Speaker IV: Liyanage C De Silva (Online) Chair: Chuanlei Zhang, 10:15am-10:50 am Plenary Speaker V: Peiwu Qin Chair: Yijie Pan, 10:50am-11:25 am Plenary Speaker VI: Xiaoyan Chen Chair: Wei Chen, 11:25am-12:00 pm	Oral Presentation 3:50pm-6:00pm Room A, Room B, Room C, Room D, Room E, Room F, Room G Workshop Room I, Room J	
		Lunch time: 12:30pm-1:30pm, Man Ting Fang(满庭芳), Dinning Center	
August 7	Oral Presentation 08:00am-10:10am Room A, Room B, Room C, Room D, Room E, Room F, Room G Workshop Room H, Room K	Oral Presentation 1:30pm-3:40pm Room A, Room B, Room C, Room D, Room E, Room F, Room G Poster Presentation 1:30pm-3:40pm, Room L Workshop Room H, Room K	<b>Banquet</b> 6:30pm-9:00 pm Man Ting
Wednesday	Coffee Break: 10:10am-10:20am	Coffee Break: 3:40pm-3:50pm	Fang(满庭芳),
	Oral Presentation 10:20am-12:30pm Room A, Room B, Room C, Room D, Room E, Room F, Room G Poster Presentation 10:20am-12:30pm,Room L Workshop Room H, Room K	Oral Presentation 3:50pm-6:00pm Room A, Room B, Room C, Room D, Room E, Room F, Room G Workshop Room H, Room K	Dinning Center
August 8 Thursday		Free Activity	

### **Introduction of Plenary Speakers**

Plenary Speaker I: Shengyong Chen

# Smart Healthcare by Learning of Data: Understanding of Medical Images and Signals

Shengyong Chen, PhD & Professor, Vice President, IET Fellow Tianjin University of Technology csy@tjut.edu.cn



Abstract: The talk presents a brief overview of Smart Healthcare, focusing on the understanding of medical images and signals. It first discusses the current state of healthcare, highlighting challenges and the need for an intelligent system. The report then delves into medical image understanding, emphasizing the importance of AI-driven techniques for diagnosis and prediction using advanced imaging modalities. Key topics include microscopic image analysis of blood cells, clump cells in pleural fluid, and cancer cells, as well as 3D analysis of cerebral vasculature and abdominal aortic aneurysms. The report also touches upon retinal image analysis for

microaneurysm detection and surgical navigation techniques for abdominal aortic aneurysm surgeries. In all, the report emphasizes the potential of data-driven and AI-assisted approaches in enhancing diagnostic accuracy, facilitating early disease detection, and personalizing healthcare services.

**Bio-Sketch:** Prof. Shengyong Chen received the Ph.D. degree from City University of Hong Kong in 2003. He worked as a guest researcher at University of Hamburg, Germany, where he received a fellowship from the Alexander von Humboldt Foundation in 2006. He was a visiting professor at Imperial College London, from 2008 to 2009. He is currently a full Professor and Vice-President in Tianjin University of Technology. He is an IET Fellow and an IEEE senior member. His research interests include machine vision and robotics. He received the National Outstanding Youth Foundation Award of NSFC. He has applied over 100 patents and published over 400 scientific papers, including 100 in IEEE Transactions, and 5 Best Paper Awards from international organizations. His work received over 15000 citations in Google Scholar.

### Plenary Speaker II: Dong Ming

## **Development and Challenges of Non-invasive Brain- Computer Interface**

Dong Ming, PhD & Professor, Vice President Medical School, Tianjin University, China richardming@tju.edu.cn



Abstract: Brain-Computer interaction (BCI) represents the pinnacle of human-machine interaction and is an essential pathway for the integration of artificial intelligence into biological intelligence. The technique has emerged as a new favorite in the realm of brain science research, bearing significant implications for advancing modern medicine. This presentation initially provides an overview of BCI by summarizing the common developmental trends of both invasive and non-invasive types. Subsequently, the complete technological chain of BCI, including neural foundations, sensing methods, software and hardware systems, key technologies, and

typical applications will be addressed. The presentation will also introduce the latest research progress of the neural engineering group of Tianjin University in the field and provides a summary of the developmental trends and future directions of BCI at the end.

Bio-Sketch: Professor Dong Ming, Vice President of Tianjin University, Chair Professor. He was a winner of Distinguished Young Scholars of the National Nature Science Fund, National Special Support Plan for High-level Talents. He serves as member of the Science and Technology Committee of the Ministry of Education and holds prestigious positions including Director of the National Health and Medical Big Data Research Institute, Director of the Intelligent Medical Engineering Research Center at the Ministry of Education, and Executive Director of the Haihe Laboratory of Brain-Computer Interaction and Human-Machine Integration. He is also a Life Member of the International Functional Electrical Stimulation Society (IFESS), the Vice Chairman of the Chinese Society of Biomedical Engineering, and the Vice Chairman of the Brain-Computer Interface and Brain-like Intelligence Professional Committee at the China Standardization Association. Prof. Ming's research expertise concerns the foundational theories and critical technologies of intelligent human-machine interaction. He has also advanced substantial engineering applications of intelligent systems. His work have been recognized with the IOP Highly Cited Award, featured in JNE Highlight, JNER Highly Accessed, and covered by IEEE TBME and JBHI and reported by special issues of Science and Nature.

### Plenary Speaker III: Ying Qu

### **Emergency Disaster Response with Satellite Imagery**

Ying Qu, PhD & Professor
Faculty of Geographical Science, Beijing Normal University, China
yingqu@bnu.edu.cn



Abstract: The intensification of unprecedented extreme climate events, such as hurricanes and floods, alongside catastrophic events like regional conflicts, poses significant challenges to emergency response systems worldwide. Traditional emergency disaster response heavily relies on survey-based assessments, which often lack real-time and comprehensive situational awareness, leading to less effective decision-making. Recently, the integration of satellite imagery with deep learning has emerged as a promising approach to enhance emergency disaster response. In this presentation, I will discuss how satellite imagery enables rapid and accurate assessments

of disaster impacts, such as evaluations of urban destruction from conflicts and crop losses due to natural disasters like floods. These efforts hold the potential to improve the effectiveness of response measures by enabling precise resource allocation, strategic planning, and timely intervention. Ultimately, these efforts aim to contribute to resilient and efficient disaster management practices.

**Bio-Sketch:** Ying Qu is a professor in the Faculty of Geographical Science at Beijing Normal University. She received the IEEE MIKIO Takagi Student Prize (best student paper award) at the International Geoscience and Remote Sensing Symposium (IGARSS) in 2016. She currently serves as an associate editor for IEEE Transactions on Geoscience and Remote Sensing. Her research interests encompass remote sensing image analysis and computer vision. By integrating traditional remote sensing theory with artificial intelligence techniques, she has achieved breakthroughs in unsupervised and unregistered image fusion, as well as open-set land cover classification. These advancements have significantly enhanced the accuracy and efficiency of urban destruction detection and large-scale mapping.

#### Plenary Speaker IV: Xiaoyan Chen

## Research and Applications of Computer Vision in Intelligent Security System

Xiaoyan Chen, PhD & Professor
Tianjin University of Science and Technology, Tianjin, China
cxywxr@tust.edu.cn



Abstract: In recent years, the rapid advancement of deep learning and computer vision technologies has significantly impacted various domains, particularly in enhancing intelligent security systems. Our research team, comprising experts from both academic and industrial backgrounds, has been dedicated to exploring and developing innovative computer vision solutions to address the growing demands of intelligent security. This abstract outlines our key research areas, including image super-resolution, low-light image enhancement, object detection, and highlights the practical applications of our work in real-world security systems.

**Bio-Sketch:** Xiaoyan Chen is Professor of College of Electrical Information and Automation of Tianjin University of Science and Technology and Chief scientist of Shenzhen Soft Technology Co., LTD. She focuses on theoretical research of digital image processing with advanced techniques and their application to real world scenes. Except the traditional image processing and reconstruction, she devotes herself in novel approaches of machine learning and deep learning to address the target detection at low-light or low-spatial resolution cases. She is the reviewers of several famous journals of IEEE and the member of IEEE. She also is the director of the Life Electronics Branch of the Chinese Electronics Society, the director of the Tianjin Electronics Society and the Tianjin Instrumentation Society. She was the visiting scholar of Rensselaer Polytechnic Institute in USA, University of Kent in UK and the postdoctoral fellow at Tianjin University. She once won a second prize of Tianjin Science and Technology Progress Award and a third prize of Tianjin Technology Invention Award. She has published more than 100 academic papers in which 30+ are cited by Science Citation Index.

#### Plenary Speaker V: Peiwu Qin

#### **Data Driven Technologies for Adolescent Big Health**

Peiwu Qin, PhD & Professor
Tsinghua Shenzhen International Graduate School, Tsinghua University

pwqin@sz.tsinghua.edu.cn



Abstract: Adolescent health crisis threatens the national security, demanding novel technologies for early diagnosis and intervention. In China, 83% high school students have myopia and 17.3% adolescence have mental disorders. We develop three-in-one myopia screening instrument that can provide axial length, refractive index, and retina fundus simultaneously, which is cheaper, efficient, and sustainable. Previously, people have to carry three different instruments with three staff to acquire these three parameters for myopia screening, which is time-consuming, labor-intensive, and expensive. The current questionnaire screening for mental disorder is

subjective, non-reproducible, and inaccurate. We design an android application with mini-games and chat recording deployed in a portable robot. We propose a generalized model called GAME (Generalized Model with Attention and Multimodal EmbraceNet), which can diagnose adolescent mental conditions with high accuracy. We design novel material for sensitive EEG, EMG, and ECG data acquisition and propose RPA-CRISPR for biomarker detection. We create the first interactive canine brain atlas to facilitate the structure-function study of brain and propose hypergraph learning to parcellate cerebral cortex according to the cellular structure and organization pattern. To develop techniques for the health safeguard of next generation is the lab focus.

**Bio-Sketch:** Dr. Peiwu Qin received the B.Sc. degree in biotechnology from Northeastern Agricultural University, Harbin, China, in 2002, the M.Sc. degree in developmental biology from Chinese Academy of Sciences, Beijing, China, in 2005, the M.Sc. degree in physical chemistry from Northeastern University, Boston, USA, in 2008, the M.Sc. degree in statistics from University of Missouri, Columbia, Missouri, USA, in 2013, and the Ph.D. degree in biochemistry from University of Missouri, Columbia, Missouri, USA, in 2013. He has been a Post-Doctoral Fellow with department of physics, University of California, Berkeley from 08/2013 to 08/2018. He was assistant professor at Tsinghua-Berkeley Shenzhen Institute from 09/2018-01/2022 and promoted to associate professor at Tsinghua Shenzhen International Graduate School, Shenzhen, China. He has published more than 70 SCI papers with more than 24 M RMB competitive funding support. He changed his research focus from single molecule biophysics to adolescent big health since 2018 and study myopia and mental illness screening device and corresponding computational methods for their diagnosis and prediction.

#### Plenary Speaker VI: Liyanage C De Silva

### Bioinspired AI and IoT: Crafting Intelligent Ecosystems from Homes to Forests

Liyanage C De Silva, PhD & Professor Dean, School of Digital Science (SDS), Universiti Brunei Darussalam (UBD), Brunei Darussalam

liyanage.silva@ubd.edu.bn



Abstract: We are at a unique juncture where bioinspiration, Artificial Intelligence (AI), and the Internet of Things (IoT) converge to offer transformative solutions for pressing environmental and societal challenges. By integrating bioinspired algorithms with AI-driven sensor technology, we achieve a level of synergy that allows for intelligent interpretation of multifaceted environmental data. This approach, deeply rooted in biomimicry, elevates our systems from mere data collectors to dynamic problem solvers. It offers predictive analytics and automated responses in critical areas such as pollution mitigation, hazardous chemical

detection, and disaster prevention. In this presentation we will navigate through this bioinspired, AI-augmented world of smart homes. We'll explore AI-driven, bioinspired smart homes equipped with computer vision and audio recognition algorithms, focusing on their specialized applications in eldercare, childcare, and energy efficiency. A dynamic landscape where bioinspired AI techniques not only enhance current IoT functionalities but also pave the way for innovative research domains, particularly in energy optimization and real-time video analytics. Extending this bioinspired AI-IoT framework to ecological conservation, we introduce the groundbreaking concept of the "Internet of Trees." Here, AI-powered, bioinspired sensors autonomously monitor forest health, predict potential natural calamities, and interact with wildlife in a manner mimicking natural processes. This fusion aims to create a real-time "Jungle- book, " revolutionizing our engagement and understanding of natural environments. Through the seamless integration of bio inspiration, AI, and IoT, we're not merely monitoring the world around us; we're intelligently and sustainably interacting with it. Join us as we unpack the boundless potential these converging, bioinspired technologies hold for a more sustainable and intelligent future.

**Bio-Sketch:** Professor Liyanage C De Silva received BSc Eng(Hons) degree from the University of Moratuwa Sri Lanka in 1985, MPhil degree from The Open University of Sri Lanka in 1989, MEng and PhD degrees from the University of Tokyo, Japan in 1992 and 1995 respectively. He was with the University of Tokyo, Japan, from 1989 to 1995. From April 1995 to March 1997 he has pursued his postdoctoral research as a researcher at ATR (Advanced

Telecommunication Research) Laboratories, Kyoto, Japan. In March 1997 he has joined The National University of Singapore as a Lecturer where he was an Assistant Professor till June 2003. He was with the Massey University, New Zealand from 2003 to 2007. Currently he is a Professor of Engineering and former Dean, Faculty of Integrated Technologies (FIT) and the Dean, School of Digital Science (SDS) at the Universiti Brunei Darussalam (UBD).Liyanage's current research interests are Internet of Things (IoT) Neural Network Applications, Image and Speech Signal Processing (in particular multi modal emotion recognition and speech emotion analysis), Digital Communication (CDMA, OFDMA etc.), Information theory (source coding), Pattern recognition and understanding (biometric identification), Multimedia signal processing, and Smart Sensors (Smart environments for security, eldercare and energy efficiency). Liyanage has published over 180 technical papers in these areas in international conferences, journals and Japanese national conventions and jointly holds three US, one Brunei and one Japanese national patent. The Japanese national patent was successfully sold to Sony Corporation Japan for commercial utilization. Liyanage's works have been cited as one of the pioneering works in the bimodal (audio and video signal based) emotion recognition by many researchers. His papers so far have been cited by more than 5200 times (according to scholar google.com) with an h-index of 30. Prof Liyanage C De Silva (LC De Silva) - Google Scholar.

#### **Parallel Sessions for Oral Presentations**

Time Room	Afternoon August 6 13:30-15:40	Afternoon August 6 15:50-18:00	Morning August 7 08:00-10:10
Room A	Biomedical Data Modeling and Mining <u>Chair:</u> Hongbin Hu	Biomedical Data Modeling and Mining Chair: Lin Wang	Biomedical Informatics <u>Chair:</u> Wenhao Rao
Room B	Image Processing <u>Chair:</u> Yu Zhang	Image Processing <u>Chair:Qing Zhao</u>	Image Processing <u>Chair: Minda Yao</u>
Room C	Nature-Inspired Intelligent Computing, Optimization and Applications  Chair: Pengcheng Jiang	Nature Inspired Computing and Optimization Chair: Huan Zhao	Nature Inspired Computing and Optimization Chair: Hong Lin
Room D	Information Security <u>Chair:Sijia Zhao</u>	Information Security <u>Chair:</u> Tingting Xu	Information Security <u>Chair: Wei Chen</u>
Room E	Intelligent Computing in Computer Vision  Chair: Jianhua Cao	Intelligent Computing in Computer Vision  Chair: Jianhua Cao	Natural Language Processing and Computational Linguistics <u>Chair:</u> Weixiong Zheng
Room F	Knowledge Discovery and Data Mining Chair: Yancui Shi	Knowledge Discovery and Data Mining Chair:Lingjie Li	Knowledge Discovery and Data Mining Chair: Yanan Zhang
Room G	Machine Learning <u>Chair:</u> Jueting Liu	Machine Learning <u>Chair:</u> Zishan Xu	Intelligent Control and Automation  Chair: Fengying Ma

Time Room	Morning August 7 10:20-12:30	Afternoon August 7 13:30-15:40	Afternoon August 7 15:50-18:00
Room A	Medical Image Processing and Analysis <u>Chair:</u> Haoquan Chen	Medical Image Processing and Analysis <u>Chair:</u> Jiuyun Cai	Medical Image Processing and Analysis <u>Chair:</u> Juan Lv
Room B	Image Processing <u>Chair:</u> Xingtao Wang	Image Processing <u>Chair: Chuanlei Zhang</u>	Intelligent Fault Diagnosis Chair: Wei Yan
Room C	Neural Networks <u>Chair: Xuran Pan</u>	Neural Networks <u>Chair: Jianzheng Liu</u>	Pattern Recognition <u>Chair:</u> Siqi Wen
Room D	Information Security <u>Chair:</u> Cong Wang	Intelligent Computing in Computer Vision  Chair: Zilong Wang	Intelligent Computing in Computer Vision <u>Chair:</u> Sujuan Liu
Room E	Natural Language Processing and Computational Linguistics Chair: Jing Pu Yang	Natural Language Processing and Computational Linguistics Chair: Chengcai Fu	Knowledge Discovery and Data Mining Chair: Yinxuan Huang
Room F	Intelligent Data Analysis & Prediction <u>Chair:</u> Handuo Zhang	Image Processing <u>Chair: Yang Li</u>	Machine Learning <u>Chair: Haifeng Fan</u>
Room G	Intelligent Agent and Applications <u>Chair:</u> Chengkun Xin	Pattern Recognition <u>Chair:</u> Minglong Cheng	Machine Learning <u>Chair: Yarui Chen</u>

#### **Detailed Parallel Sessions for Oral Presentations**

#### Afternoon, August 6, Tuesday, Room A

#### **Biomedical Data Modeling and Mining**

#### Chair: Hongbin Hu

Paper 879	A Heterogeneous Cross Contrastive Learning Method for Drug-Target Interaction		
13:30-13:39	Prediction, Qi Wang, Jiachang Gu, Jiahao Zhang, Mingming Liu, Xu Jin, and Maoqiang Xie		
Paper 732 13:39-13:48	Feature Extraction Approach for Predicting Protein-DNA Binding Residues Using		
	Transformer Encoder-Decoder Architecture		
13:39-13:48	Yi Qiu, Long Cheng, Man Xu, Jing Chen, and Hongjie Wu		
Paper 1984	MFFDTA: A Multimodal Feature Fusion Framework For Drug-Target Affinity		
	Prediction		
13:48-13:57	Wei Wang, Ziwen Su, Dong Liu, Hongjun Zhang, Jiangli Shang, Yun Zhou, and Xianfang Wang		
Paper 2410	Protein Manufacture: Protein Design Assisted by Machine Learning From Backbone to		
13:57-14:06	Sequence, Man Xu, Yuxuan Luo, Junhao Jiang, Zhiming Cui, and Hongjie Wu		
Paper 869	MDGAE-DTI: drug-target interactions prediction based on multi-information		
	integration and graph auto-encoder, Wei Wang, Huiru Liang, Shihao Liang, Dong Liu,		
14:06-14:15	Hongjun Zhang, Jiangli Shang, Yun Zhou, and Xianfang Wang		
Paper 893	Prediction of Drug-target Interaction Based on Substructural Subsequences and		
14:15-14:24	Multi-head Shared Attention Mechanisms, Haikuo Shi, Jing Hu, and Xiaolong Zhang		
Paper 797	Prediction of bladder cancer prognosis by deep Cox proportional hazards model based on		
14:24-14:33	adversarial autoencoder, Jing Wu, Yanqiong Ren, Fei Han, and Xiang Bao		
Paper 1472	SLGNNCT: Synthetic lethality prediction based on knowledge graph for different		
14:33-14:42	cancers types, Jingru Chen, Jianyong Pan, Yan Zhu, and Junyi Li		
Paper 1586	GCEA: contrastive-enhanced autoencoders with adaptive completion for partial		
14:42-14:51	multi-omics integration in cancer subtyping, Weiting Yu, Zhimin Li, and Cheng Liang		
Paper 330	IGDACA: Imaging Genomics of Deep Autoencoder Cascade Attention Fusion Networks		
14:51-15:00	for Cervical Cancer Prognosis Prediction		
	Tianjin Dai, Peng Chen, Jun Zhang, and Bing Wang		
Paper 668	TransPBMIL: Transformer-based Weakly Supervised Prognostic Prediction in Ovarian		
15:00-15:09	Cancer with Pseudo-Bag Strategy, Yongxin Mao, Ziwei Hu, Xinlin Zhang, and Tong Tong		
Paper 778	Graph Convolutional Networks Based Multi-Modal Data Integration for Breast Cancer		
15:09-15:18	Survival Prediction, Hongbin Hu, Wenbin Liang, Xitao Zou, and Xianchun Zou		

#### Afternoon, August 6, Tuesday, Room B

#### **Image Processing**

#### Chair: Yu Zhang

Paper 616	Non-homogeneous Image Dehazing with Edge Attention Based on Relative Haze Density
13:30-13:39	Ruting Deng, Zhan Li, Yifan Deng, Hang Long, Zhanglu Chen, Zhiqing Kang, and Zhichao

	Qiu	
Paper 1914	A Multi-Scale Patch Approach with Diffusion Model for Image Dehazing	
13:39-13:48	Yao Guo, Yongliang Wu, and Changsheng Wan	
Paper 2006	A Low-Rank Appearance Recurrent Network for Single Image Rain Removal	
13:48-13:57	Yu Zhang, Xinqi Yang, Yi Wei, and Guoliang Gong	
Paper 2079	Partition-based Image Exposure Correction via Wavelet-based High Frequency	
13:57-14:06	Restoration, Jianming Zhang, Mingshuang Wu, Wei Cao, and Zi Xing	
Paper 2026	Research on Intelligent Recognition Algorithm of Container Numbers in Ports Based on	
14:06-14:15	Deep Learning, Zhehao Lin, Chen Dong, and Yuxuan Wan	
Paper 2118	Chinese Character Image Inpainting with Skeleton Extraction and Adversarial Learning	
14:15-14:24	Di Sun, Tingting Yang, Xiangyu Pan, Jiahao Wang, and Gang Pan	
Paper 2116	DiffGIC: Diffusion Prior based Null-Space Correction for High Resolution Grayscale	
14:24-14:33	Image Colorization, Yachao Li, Yutian Fu, Feng Dong, and Dong Liang	
Paper 742	BiRGAN: Bi-directional Deep Image Retargeting	
14:33-14:42	Di Sun, Yunxiang Wang, Tingting Yang, Yijing Mei, and Gang Pan	
Paper 743	MulTIR: Deep Multi-target Image Retargeting	
14:42-14:51	Di Sun, Yitong Guo, Chaojie Yao, Yijing Mei, Dufeng Chen, and Gang Pan	
Paper 308	Color Image Steganography Based on Two-Channel Preprocessing and U-Net Network	
14:51-15:00	Lianshan Liu and Yu Huang	
Paper 2185	A Flipped Reversible Information Hiding Method Based on AMP	
15:00-15:09	Yaowen Fu, Haoshan Shi, Tianyang Qi, Xueyan Gao, and Yifei Zou	
Paper 399	Weight Uncertainty Network for Low-light Image Enhancement	
15:09-15:18	Yutao Jin, Yue Sun, and Xiaoyan Chen	
Paper 2418	MuralRescue: Advancing Blind Mural Restoration via SAM-Adapter Enhanced Damage	
15:18-15:27	Segmentation and Integrated Restoration Techniques, Zishan Xu, Dufeng Chen, Qianzhen	
	Fang, Wei Chen1, Tingting Xu, Jueting Liu, and Zehua Wang	

#### Afternoon, August 6, Tuesday, Room C

#### Nature-Inspired Intelligent Computing, Optimization and Applications

#### Chair: Pengcheng Jiang An Efficient Growth Optimizer with Adaptive Parameters and Targeted Stochastic Paper 1055 Mutation Strategies for Global Optimization, Conglin Li, Qingke Zhang, Shuzhao Pang, 13:30-13:39 Wenliang Chen, Xin Yin, Xingchen Dong, and Huaxiang Zhang A Method Combining Improved Particle Swarm Optimization and Lyapunov Paper 418 **Optimization for Electric Vehicle Charging Scheduling** 13:39-13:48 Jingwen Xu, Fei Chen, Jiawei Zhu, Weidong Lei, and Yisheng An Paper 898 An Indicator-Based Firefly Algorithm for Many-objective Optimization 13:48-13:57 Futao Liao, Shaowei Zhang, Dong Xiao, Hui Wang, and Hai Zhang Paper 2114 Dynamic Search Hybrid Fireworks Algorithm, Kedi Feng, Jun Li, and Senwu Yu 13:57-14:06 Optimal design of heliostat field layout based on improved sparrow search algorithm Paper 1005

14:06-14:15	Weikun Li, Longzhao Huang, Xiaojie Chen, Maoning Jia, and Wenhui Zhang		
Paper 2297 14:15-14:24	Evolving Scheduling Heuristics for Energy-Efficient Dynamic Workflow Scheduling in Cloud via Genetic Programming Hyper-heuristics, Zaixing Sun, Fangfang Zhang, Yi Mei, Hejiao Huang, Chonglin Gu, Bin Qian, and Mengjie Zhang		
Paper 1879 14:24-14:33	Multi-modal Multi-objective Particle Swarm Optimization Algorithm with Bi-Topological Structures and Rebirth Mechanism, Huimei Huang, Feng Zou, and DeBao Chen		
Paper 889	Dynamic Elite Individual Setting Based Heterogeneous Comprehensive Learning Particle		
14:33-14:42	Swarm Optimization, Tianwei Zhou, Yulong Zhang, Yunbao Pan, Guanghui Yue, and Ben Niu		
Paper 2069	An Optimization Method Based on Drift Data and Time Series Information		
14:42-14:51	Qian Zhang, Guanjun Liu, and Changjun Jiang		
Paper 1933	Multi-Objective Evolutionary Algorithm based on Competitive Swarm Optimizer and		
14:51-15:00	Constraint Handling Techniques, Deng Zhu and Jun Li		
Paper 1937	A Multi-Objective Evolutionary Algorithm Based on Two-Stage Search and		
15:00-15:09	Constraint-Dominance Indicator, Yaxi Wei and Jun Li		
Paper 663	Surrogate-Assisted Evolutionary Neural Architecture Search with Isomorphic Training		
15:09-15:18	and Prediction, Pengcheng Jiang, Yu Xue, Ferrante Neri, and Mohamed Wahib		

#### Afternoon, August 6, Tuesday, Room D

**Information Security** 

#### Chair:Sijia Zhao Paper 562 UTPrompt: Cross-Task Backdoor Prompt Attacks Based on Universal Triggers 13:30-13:39 Yu Jiang, Pengchuan Wang, Qianmu Li, and Nan Liu Paper 695 Non-Targeted Adversarial Attacks on Object Detection Models, Jian-Xun Mi, Xiangjin 13:39-13:48 Zhao, Yongtao Chen, Xiao Cheng, Peng Tian, Xiaohong Lv, and Jiayong Zhong Adversarial Attacks on Network Intrusion Detection Systems Based on Federated Paper 1124 13:48-13:57 Learning, Ziyuan Yang, Haipeng Qu, Ying Hua, Xiaoshuai Zhang, and Xijun Lin Paper 207 Intelligent Computing Making Access Control More Secure: From Cipher to Trust 13:57-14:06 Tian Wang, Weidong Fang, Mufan Ni, Xiaoliang Yang, Wei Chen, Wentao Chen, and Wuxiong Paper 435 Generative Adversarial Network for Enhancement Network Security Log Detection 14:06-14:15 Yu Zhang, Yanqing Song, Jianguo Chen, and Long Chen Paper 588 Feedback Mechanism-Based Trust Evaluation Model for Mobile Edge Computing in 14:15-14:24 Industrial IoT, Minglong Cheng, Wei Chen, Weidong Fang, Jueting Liu, Tingting Xu, and Zehua Wang Paper 319 AES improvement algorithm based on the chaotic system in IIOT

14:24-14:33

Paper 1886

14:33-14:42

Paper 565

14:42-14:51

Spammer Group Detection Approach Based on Deep Reinforcement Learning

Chenghang Huo, Jindong Cui, Ru Ma, Yunfei Luo, and Fuzhi Zhang

Jianrong Li, Zhiqiang Xu, Pengyu Han, Huiying Sun, Ting Ke, Wei Chen, and Chuanlei Zhang

GI-SMN: Gradient Inversion Attack against Federated Learning without Prior

Knowledge, Jin Qian, Kaimin Wei, Yongdong Wu, Jilian Zhang, Jinpeng Chen, and Huan Bao

Paper 854	A differential privacy federated learning scheme with improved noise perturbation	
14:51-15:00	Chang Liu, Xiaowei He, Bin Wang, Xinru Sun, Yixuan Luo, Yiji Zeng, Xinyu Wang, Jianhang	
_= / 411	Wang, and Haofei Zhao	
Paper 2257	UB-CRAF: A User Behavior-driven Co-Resident Risk Assessment Framework for	
15:00-15:09	Dynamically Migrating VMs in Clouds	
	Kuiye Ding, Xin Yang, Jintao Chen, Chao Liu, Songyao Hou, and Wenyuan Yang	
Paper 580	Network Traffic Risk Identification Based on Deep Learning Model	
15:09-15:18	Weinan Zhai, Siqi Liu, Yue Yu, Wei An, Jianjun Yu, and Lingling Zhang	
Paper 1954	A Dual Auditing Scheme of Cross-chain Data Shared among the Blockchain Network	
15:18-15:27	Chenting Li, Dan Li, and Yuqian Zhou	

#### Afternoon, August 6, Tuesday, Room E

#### **Intelligent Computing in Computer Vision**

intelligent compating in compater vision		
Chair: Jianh	ua Cao	
Paper 1692	Enhancing Dense Object Counting in Occlusion with a Dual-Branch Network	
13:30-13:39	Zhe Wang, Min Wang, Yitao Zhuang, Yubin Guo, and Ximing Li	
Paper 1736	Street Block Classification Based on Urban Satellite Images	
13:39-13:48	Zhihui Wang, Wenbiao Xing, and Yuliang Ni	
Donov 1754	SRCFT: A Correlation Filter Tracker with Siamese Super-resolution Network and	
Paper 1754	Sample Reliability Awareness for Thermal Infrared Target Tracking	
13:48-13:57	Ruoyan Xiong, Shang Zhang, Yang Zou, and Yue Zhang	
Paper 1761	Traffic Sign Detection and Recognition Using Gradient Training with an Improved	
13:57-14:06	YOLO Network, Chenghao Qin, Jianming Cui, Yungang Jia, Chao Li, and Ming Liu	
Danay 1995	IOCSegFormer: Enhancing Wheat Ears Counting in Field Conditions through	
Paper 1885 14:06-14:15	Augmented Local Features	
14:00-14:13	Hualei Shen, Yilong Peng, Jie Zhang, Hecang Zang, Meng Zhou, Guoqiang Li, and Dong Liu	
Paper 1923	Stroke-based Few-shot Chinese Character Style Transfer	
14:15-14:24	Guanghao Liu, Yixin Zhong, Yuehui Chen, Yi Cao, and Yaou Zhao	
Paper 1968	PS-DeiT: A Part-Selection based DeiT for Fine-Grained Classification	
14:24-14:33	Huan Gao, Yu Guo, Tingting Zhao, Zhiqiang Hu, Yarui Chen, and Ning Xie	
Paper 1970	Text-guided Multi-region Scene Image Editing Based on Diffusion Model	
14:33-14:42	Ruichen Li, Lei Wu, Changshuo Wang, Pei Dong, and Xin Li	
Paper 1992	FSC formernet: A Fourier-Transformer UNet for efficient semantic segmentation of plant	
14:42-14:51	leaf, Jianguo Deng, Yuan Wang, and Chuanlei Zhang	
Paper 1041	DSFormer: Leveraging Transformer with Cross-Modal Attention for Temporal	
14:51-15:00	Consistency in Low-Light Video Enhancement	
14:51-15:00	JiaHao Xu, ShuHao Mei, ZiZheng Chen, DanNi Zhang, Fan Shi, and Meng Zhao	
Paper 2005	Improved Real-time Monitoring Lightweight Model for UAVs Based on YOLOv8	
15:00-15:09	Chuanlei Zhang, Xingchen Zhao, Di Sun, Xinliang Wang, Guoyi Xu, Runjun Zhao, Ming Gao,	
13.00-13.07	and Hui Ma	
Paper 1670	Segmentation and quality assessment of continuous fitness movements	
15:09-15:18	based on vision, Zeying Li, Hongtao Chen, Jing Cai, and Yanbing Xue	

Paper 1685	Diagonal-Angle-Foreground IoU Loss Function for Small Object Detection		
15:18-15:27	Jingpeng Li, Hui Li, Mei Yang, Delong Cai, and Zhaoyun Zhang		
Paper 2030 15:27-15:36	Low-Quality Deepfake Video Detection Model Targeting Compression-Degraded		
	Spatiotemporal Inconsistencies		
	Zhongjie Mi, Xinghao Jiang, Tanfeng Sun, Ke Xu, Qiang Xu, and Laijin Meng		

#### Afternoon, August 6, Tuesday, Room F

#### **Knowledge Discovery and Data Mining**

Chair: Yancı	ni Shi		
Paper 2282	Estimating Socioeconomic Proxy Variables Using Multimodal Deep Learning Models		
13:30-13:39	Yanbing Bai, Zelan Zhu, Huixue Su, Xiao Liu, and Liangzhi Li		
Paper 425 13:39-13:48	A Redundant Relation Reduced Bidirectional Extraction Framework based on SpanBERT for Relational Triple Extraction  Hongrui Zhang, Ji Xiang, Xiaobo Guo, Lei Wang, and Xin Wang		
Paper 361	An Influence Blocking Maximization Algorithm based on Community Division in Social		
13:48-13:57	Networks, Wei Liu, Zhen Guo, Ling Chen, and Jie He		
Paper 310	Anomaly Detection Method for Multivariate Time Series Data Based on BLTranAD		
13:57-14:06	Chuanlei Zhang, Songlin Wu, Ming Gao, Yubo Li, Gongcheng Shi, Yicong Li, and Hui Ma		
Paper 589	EntroMAGNN: An Entropy-driven Metapath-based Graph Neural Network for		
14:06-14:15	Maritime Emergency Event Prediction, Wei Liu and Tong Xin		
Paper 657 14:15-14:24	HEAMWalk: Heterogeneous Network Embedding Based on Attribute combined  Multi-view Random Walks  Xiangtao Chen, Shurui Fang, Ying Wang, Linghan Li, and Xinguo Lu		
Paper 777	Generating Graph-based Rules for Enhancing Logical Reasoning		
14:24-14:33	Kai Sun, Huajie Jiang, Yongli Hu, and Baocai Yin		
Paper 763	Label Prompt Guiding for Two-Stage Few-Shot Named Entity Recognition		
14:33-14:42	Rongzhi Qi, Jiazheng Lou, and Yingchi Mao		
Paper 803	Open-domain Question Answering over Tables with Large Language Models		
14:42-14:51	Xinyi Liang, Rui Hu, Yu Liu, and Konglin Zhu		
Paper 965 14:51-15:00	GNMFO_TW: Graph Regularized Non-Negative Matrix Factorization for Overlapping  Community Discovery by Using Three-way		
	Xiaoyang Zou, Jinxin Cao, Hengrong Ju, Weiping Ding, and Di Jin		

#### Afternoon, August 6, Tuesday, Room G

#### **Machine Learning**

## Paper 1172 Interpretable Coronary Artery Disease Prediction based on K-Stacking Model 13:30-13:39 Haizheng YU and Hong Bian Paper 2375 13:39-13:48 TensorRT acceleration and SuperGlue feature matching in SFM: performance improvement and dense 3D reconstruction, Qiang Yang, Chen Zhang, Na Bu, Zhenghui Yan,

Tong Ye, Yicong Li, Cong Tian, and Chuanlei Zhang

Paper 1940	A MULTI-SCALE MULTIVARIATE TIME SERIES CLASSIFICATION METHOD	
13:48-13:57	BASED ON BAG OF PATTERNS, Yuxiao Wang, Ding Zhu, and Juan Liu	
Paper 2382	SuperPoint and SuperGlue-based-VINS-Fusion Model, Ming Gao, Zhitao Geng, Jingjing	
13:57-14:06	Pan, Zhenghui Yan, Chen Zhang, Gongcheng Shi, Haifeng Fan, and Chuanlei Zhang	
D 1045	FD-SDG: Frequency Dropout based Single Source Domain Generalization Framework	
Paper 1945	for Retinal Vessel Segmentation, Boyang Li, Haojin Li, Yule Zhang, Heng Li, Jiangyu Chen,	
14:06-14:15	Fuhai Pan, Jianwen Chen, and Jiang Liu	
-	DocSecKG: A Systematic Approach for Building Knowledge Graph to Understand the	
Paper 2224	Relationship between Docker Image and Vulnerability	
14:15-14:24	Zhiling Zhu, Tieming Chen, Haobin Kong, Yunjin Zhong, and Qijie Song	
Paper 1960	A full-lifecycle malicious code detection scheme based on RASP and Random Forest	
14:24-14:33	Jiameng Cheng, Chenhao Zhang, Hongwei Zhang, Cong Wang, and Jinsong Wang	
Paper 2387	Feature Selection via Label Enhancement and Weighted Neighborhood Mutual	
14:33-14:42	Information for Multilabel Data, Lin Sun, Jiaqi Guo, Xuejiao Wu, and Jiucheng Xu	
Paper 2408	LDCM-MVIT: a Lightweight Depth Completion Model Based on MViT, Yarui Chen, Qixiu	
14:42-14:51	Wu, Lianlong Sun, Shiwei Wu, Mengchen Zhang, Bingqi Wang, and Tingting Zhao	
Paper 1996	A Mixed Hypergraph Convolutional Network for Session-based Recommendation	
14:51-15:00	Jianfu Li, Dan Zhang, Sihua Gao, and Weifeng Xu	
D 712	New learning models based on the combination of Variational Graph Autoencoder/Graph	
Paper 712	Autoencoder with Context Self-supervised Learning for Link Prediction	
15:00-15:09	Jian zhang, Yun Hai Gao, and Gui Yun Zhang	
Paper 2009	Multi-view Bipartite Graph Clustering with Collaborative Regularization	
15:09-15:18	Yong Zhang, Jiongcheng Zhu, Li Jiang, Da Liu, and Wenzhe Liu	
Paper 714	Temporal Relation-aware Global Attention Network for Temporal Action Detection	
15:18-15:27	Weijie Xu, Jingwei Tan, Shulin Wang, and Sheng Yang	

#### Afternoon, August 6, Tuesday, Room A

#### **Biomedical Data Modeling and Mining**

#### Chair: Lin Wang CDDTR: Cross-domain autoencoders for predicting cell type specific drug-induced Paper 929 transcriptional responses, Hanjun Zhang, Yunxiang Cai, Fengya Ge, Wenjuan Zhang, Jinqian 15:46-15:55 Li, Shuxin Chen, Chao Chen, and Lin Wang Drug-target Interaction Prediction Based on Multi-path Graph Convolution and **Paper 1797** Graph-level Attention Mechanism, 15:55-16:04 Weiwenzheng Liu, Xiaolong Zhang, Xiaoli Lin, and Jing Hu **Paper 1152** FOKHic: A Framework of -mer Based Hierarchical Classification 16:04-16:13 Yu Zhang, Yang Zhou, Haodi Feng, and Daming Zhu **Paper 1539** PF2PI: Protein Function Prediction based on AlphaFold2 information and 16:13-16:22 Protein-Protein Interaction, Ruiqi Li, Peishun Jiao, and Junyi Li Prediction of protein-DNA binding sites based on Protein Language Model and Deep Paper 2409 16:22-16:31 Learning, Kaixuan Shan, Xiankun Zhang, and Chen Song

Paper 809	GSDPI: An Integrated Feature Extraction Framework for Predicting Novel Drug-protein		
16:31-16:40	Interaction, Yun Zhou, Yiran Ma, Dong Liu, Jiangli Shang, and Wei Wang		
Paper 838	Compound-Protein Interaction Prediction with Sparse Perturbation-Aware Attention		
16:40-16:49	Qiwen Wang, Chen Lin, Wei Su, Liang Xiao, and Xiangxiang Zeng		
Paper 2095	Prediction of circular RNA-RBP binding sites based on multi-source features and cascade		
16:49-16:58	forest, Yanqi Guo, Qingfang Meng, Qiang Zhang, and Xiaoyun Xu		
Paper 324	An Optimization Method for Drug Design Based on Molecular Features		
16:58-17:07	Xuan Liu, Xiaoli Lin, and Fengli Zhou		
Paper 1051	Drug Molecule Generation Method Based on Fusion of Protein Sequence Features		
17:07-17:16	Mengyao Wang, Xiaolong Zhang, Haoran Liu, Xiaoli Lin, Jing Hu, and Jun Pang		
D 2074	GGANet: A model for the prediction of miRNA-drug resistance based on contrastive		
Paper 2074	learning and global attention		
17:16-17:25	Zimai Zhang, Bo-Wei Zhao, Yu-An Huang, Zhu-Hong You, Lun Hu, Xi Zhou, and Pengwei Hu		
Paper 612	Leverage Diagnosis Intensity in Medication Recommendations		
17:25-17:34	Abdul Aziz, Zafar Ali, Guilin Qi, Yi Huang, Pavlos Kefalas, Aminullah, and Asad Ali		
Paper 320	AAHLDMA: Predicting Drug-microbe Associations Based on Bridge Graph Learning		
17:34-17:43	Yaojia Chen, Mengting Niu, Yi Liu, Jiacheng Wang, Yijie Ding, and Quan Zou		
Paper 2235	DiagNCF: Diagnosis Neural Collaborative Filtering for Accurate Medical		
17:43-17:52	Recommendation, Qingyi Pan and Jingyi Zhang		

#### Afternoon, August 6, Tuesday, Room B

Image Processing	
Chair:Qing Zhao	
Paper 2348	Convergence and Divergence: A New Paradigm for Pedestrian Detection
15:46-15:55	Yueyan Zhu, Hai Huang, Shan Yue, Shu Zhang, and Aoran Chen
Paper 673	Contrastive Learning for Silent Face Liveness Detection Based on A Hybrid Framework
15:55-16:04	Ying Tang, Zhongyue Chen, Minchao Ye, Zhaojuan Zhang, Yaping Qi, Huijuan Lu, and Wanli
13:33-10:04	Нио
Paper 1113	Instance-level detection and region partition of HPT blade by slot localization
16:04-16:13	Rui Huang, Xuyi Cheng, Chaoqun Zhang, Jingcheng Zeng, Yifan Zhang, and Yan Xing
Paper 1969	Weakly Supervised Object Localization Based on Implicit Spatial Constraints
16:13-16:22	Hanxin Li, Ke Jia, Zhicheng Jin, Changyuan Xu, Ji Zhou, and Wenrun Wang
Paper 689	LVMUM: Toward Open-World Object Detection with Large Vision Models and
16:22-16:31	Unsupervised Modeling, Yangyang Huang, Xing Xi, Weiye Wu, and Ronghua Luo
Paper 740	End-to-end Object Detection with YOLOF
16:31-16:40	Xing Xi, Yangyang Huang, Weiye Wu, and Ronghua Luo
Paper 1861	DCM-YOLOv8: An Improved YOLOv8-based Small Target Detection Model for UAV
16:40-16:49	Images, Zhecong Xing, Yuan Zhu, Rui liu, Weiqi Wang, and Zhiguo Zhang
Paper 2177	Person re-identification method based on dual feature attention backbone network
16:49-16:58	Zhiwei Sun, Guangqun Wu, Qin Pan, Yufeng Li, and Yuliang Liu
Paper 2340	ISE-UFDS: A dataset for detecting the degree of danger to vehicles in urban flooding and
16:58-17:07	performance assessment

	Jiwu Sun, Cheng Zhang, Cheng Xu, Pengfei Wang, and Hongzhe Liu
Paper 760	Controllable Rain Image Generation: Balance between Diversity and Controllability
17:07-17:16	Kaibin Zhou, Shengjie Zhao, and Hao Deng
Paper 2328	One-Stage Lightweight Network of Object Detection for Rectangular Panoramic Images
17:16-17:25	Yingying Lu, Yun Tie, and Lin Qi
Paper 2309	SCW-YOLO: An improved algorithm for fall detection based on deep learning
17:25-17:34	Yongshuai He, Liran Shen, and Ying Hu
Paper 2236	Utilizing Stable Diffusion to Enhance Car Parts Detection
17:34-17:43	Jie Wang, Qianqian Cao, Yilin Zhong, Bo Fan, and Banghuang Peng

#### Afternoon, August 6, Tuesday, Room C

#### **Nature Inspired Computing and Optimization**

Paper 779 Guided Particle Adaptation PSO for Feature Selection on High-Dimensional 15:46-15:55 Classification, Mingshen Huang, Weiwei Yuan, Donghai Guan, Mengze Lu, and Çetin Kaya Koç Paper 817 15:55-16:04 Non-Dominated Solution Set Pei-Cheng Song, Jeng-Shyang Pan, Xiao-xue Sun, and Shu-Chuan Chu Paper 211 Gene Selection and Classification Method Based on SNR and Multi-loops BPSO Baofang Chang, Fuxiang Sun, Maodong Li, Peiyan Yuan, Hecang Zang, and Hu Jin Paper 1863 Spiking Generative Adversarial Network For Controllable Affective Music Creation Yuan Zhao, Xianghong Lin, Zequn Zhang, Chengyang Xie, and Ruidong Ma Paper 1053 16:13-16:22 Paper 1907 Paper 1907 Two Stages Multi-Operator Hybrid Constraint Handling Strategy for CMTOPs 16:31-16:40 Zhaoqi Wang, Lei Wang, Xinhui Duan, Yaxin Yuan, and Qiaoyong Jiang Paper 1908 Multi-task Scheduling of Multiple Agricultural Machinery via Reinforcement Learning and Genetic Algorithm, Lihang Li, Liruizhi Jia, Shengquan Liu, Bo Kong, and Yuan Liu Paper 214 16:49-16:58 Paper 703 16:58-17:07 Paper 1910 Paper 1910 Paper 1910 Paper 1910 Paper 1920 A Unmanned Aerial Vehicle using Enhanced Dynamic Group Based Collaborative Optimization algorithm Wenyuan Xiao, Dong Wang, Hongpu Liu, Yajuan Zhang, and Yunhe Wang Powerful Influencer Identification in Temporal Social Networks Adopting Discrete Wild Geese Swarm Optimization, Wei Liu, Shijie Zong, and Ling Chen Paper 1020 A Unmanned Aerial Vehicleath (UAV) Path Based on Golden Section Grey Wolf Optimization Algorithm, Peidong Chen and Long Tan Paper 1919 Short-term power load forecasting study based on IWOA optimized CNN-BiLSTM Tongda Mei, Zhanjum Si, Jing Yan, and Lifeng Lu Tongda Mei, Zhanjum Si, Jing Yan, and Lifeng Lu		The tare inspired computing and optimization	
Classification,   Mingshen Huang, Weiwei Yuan, Donghai Guan, Mengze Lu, and Çetin Kaya Koç	Chair: Huan Zhao		
Paper 817 Concept-Level Interpretable SOM for Visual Analysis of High-Dimensional 15:55-16:04 Non-Dominated Solution Set Pei-Cheng Song, Jeng-Shyang Pan, Xiao-xue Sun, and Shu-Chuan Chu  Paper 211 Gene Selection and Classification Method Based on SNR and Multi-loops BPSO 16:04-16:13 Baofang Chang, Fuxiang Sun, Maodong Li, Peiyan Yuan, Hecang Zang, and Hu Jin Paper 1863 Spiking Generative Adversarial Network For Controllable Affective Music Creation 16:13-16:22 Yuan Zhao, Xianghong Lin, Zequn Zhang, Chengyang Xie, and Ruidong Ma Paper 1053 Planning for Earth Imaging Tasks via Grid Significance Mapping 16:22-16:31 Jinwen Li, Youmei Pan, Xiaobin Zhu, Fanjiang Xu, and Peng Wang Paper 1907 Two Stages Multi-Operator Hybrid Constraint Handling Strategy for CMTOPs 16:31-16:40 Zhaoqi Wang, Lei Wang, Xinhui Duan, Yaxin Yuan, and Qiaoyong Jiang Paper 1908 Multi-task Scheduling of Multiple Agricultural Machinery via Reinforcement Learning and Genetic Algorithm, Lihang Li, Liruizhi Jia, Shengguan Liu, Bo Kong, and Yuan Liu Enhanced Tree-Seed Algorithm with Double-layer cooperation strategy to boost Diversity and Exploration Capability for Feature Selection Xianqiu Meng, Gaochao Xu, Xu Xu, Long Li, Shuai Shao, Jianhua Jiang, and Yandi Wang Paper 703 16:58-17:07 Paper 910 Paper 910 Powerful Influencer Identification in Temporal Social Networks Adopting Discrete Wild 17:07-17:16 Geese Swarm Optimization, Wei Liu, Shijie Zong, and Ling Chen Paper 1020 A Unmanned Aerial Vehicleath (UAV) Path Based on Golden Section Grey Wolf 17:16-17:25 Optimization Algorithm, Peidong Chen and Long Tan	Paper 779	Guided Particle Adaptation PSO for Feature Selection on High-Dimensional	
Paper 817 Concept-Level Interpretable SOM for Visual Analysis of High-Dimensional 15:55-16:04 Non-Dominated Solution Set Pei-Cheng Song, Jeng-Shyang Pan, Xiao-xue Sun, and Shu-Chuan Chu  Paper 211 Gene Selection and Classification Method Based on SNR and Multi-loops BPSO 16:04-16:13 Baofang Chang, Fuxiang Sun, Maodong Li, Peiyan Yuan, Hecang Zang, and Hu Jin Paper 1863 Spiking Generative Adversarial Network For Controllable Affective Music Creation 16:13-16:22 Yuan Zhao, Xianghong Lin, Zequn Zhang, Chengyang Xie, and Ruidong Ma Paper 1053 Planning for Earth Imaging Tasks via Grid Significance Mapping 16:22-16:31 Jinwen Li, Youmei Pan, Xiaobin Zhu, Fanjiang Xu, and Peng Wang Paper 1907 Two Stages Multi-Operator Hybrid Constraint Handling Strategy for CMTOPs 16:31-16:40 Zhaoqi Wang, Lei Wang, Xinhui Duan, Yaxin Yuan, and Qiaoyong Jiang Multi-task Scheduling of Multiple Agricultural Machinery via Reinforcement Learning and Genetic Algorithm, Lihang Li, Liruizhi Jia, Shengquan Liu, Bo Kong, and Yuan Liu Enhanced Tree-Seed Algorithm with Double-layer cooperation strategy to boost Diversity and Exploration Capability for Feature Selection Xianqiu Meng, Gaochao Xu, Xu Xu, Long Li, Shuai Shao, Jianhua Jiang, and Yandi Wang Path Planning for Unmanned Aerial Vehicle using Enhanced Dynamic Group Based Collaborative Optimization algorithm Wenyuan Xiao, Dong Wang, Hongpu Liu, Yajuan Zhang, and Yunhe Wang Powerful Influencer Identification in Temporal Social Networks Adopting Discrete Wild 17:07-17:16 Geese Swarm Optimization, Wei Liu, Shijie Zong, and Ling Chen Paper 1020 A Unmanned Aerial Vehicleath (UAV) Path Based on Golden Section Grey Wolf 17:16-17:25 Optimization Algorithm, Peidong Chen and Long Tan	15:46-15:55	Classification,	
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17:16-17:25 Optimization Algorithm, Peidong Chen and Long Tan  Paper 1919 Short-term power load forecasting study based on IWOA optimized CNN-BiLSTM	17:07-17:16	Geese Swarm Optimization, Wei Liu, Shijie Zong, and Ling Chen	
Paper 1919 Short-term power load forecasting study based on IWOA optimized CNN-BiLSTM	Paper 1020	A Unmanned Aerial Vehicleath (UAV) Path Based on Golden Section Grey Wolf	
	17:16-17:25	Optimization Algorithm, Peidong Chen and Long Tan	
17:25-17:34 Tongda Mei, Zhanjun Si, Jing Yan, and Lifeng Lu	Paper 1919	Short-term power load forecasting study based on IWOA optimized CNN-BiLSTM	
	17:25-17:34	Tongda Mei, Zhanjun Si, Jing Yan, and Lifeng Lu	

Paper 885	A Defense Strategy for UAV Swarm against GNSS Spoofing Attacks Based on Game
17:34-17:43	Model, Zhaojun Gu, Huan Zhao, Jialiang Wang, Rui Tan, and Liuyang Nie

#### Afternoon, August 6, Tuesday, Room D

#### **Information Security**

#### **Chair: Tingting Xu**

Chair: Tingung Au		
Paper 2379	An Intrusion Detection Model of Incorporating Deep Residual Shrinking Networks for	
15:46-15:55	Power Internet of Things	
	Hao Ma, Ting Li, Meiming Fu, Xueliang Wang, Yeshen He, and Yiying Zhang	
Paper 2384	A SRC-RF and WGANs-based hybrid approach for intrusion detection	
15:55-16:04	Hui Ding, Zhenjiang Pang, Xueliang Wang, Yeshen He, Peng Tian, and Yiying Zhang	
Danay 2272	Intrusion Detection in Power Cyber-Physical Systems Using Denoising Autoencoder and	
Paper 2373	EQL v2 Loss Function	
16:04-16:13	Yiying Zhang, Yanping Dong, Ke Liu, Xiankun Zhang, Xianfan Sun, and Siwei Li	
Paper 1087	FedURL: A BERT-based Federated Malicious URL Detection Framework	
16:13-16:22	Songyang Wu, Bochen Shen, Hao Zheng, Wenqi Sun, Qi Sun, and Shuang Wang	
Paper 209	CWMAGAN-GP-Based Oversampling Technique for Intrusion Detection	
16:22-16:31	Wenli Shang, Zifeng Huang, Zhaojun Gu, Zhong Cao, Lei Ding, and Shuang Wang	
Paper 594	CoSen-IDS: A Novel Cost-sensitive Intrusion Detection System on Imbalanced Data in 5G	
16:31-16:40	Networks, Lu Yuan, Jiyan Sun, Shangyuan Zhuang, Yinlong Liu, Liru Geng, and Wei Ma	
Paper 2364	An Adaptive VM Allocation Approach for Mitigating Co-Resident Attack in Cloud based	
16:40-16:49	on Improved NSGA-II	
10.40-10.47	Xin Yang, Jintao Chen, Kuiye Ding, Chao Liu, Jiashen Liu, and Songyao Hou	
Paper 2372	Attribute-based Encryption Method For Data Privacy Security Protection	
16:49-16:58	Ziqian Li, Yeshen He, Yiying Zhang, Siwei Li, Cong Wang, and Xiankun Zhang	
Paper 2381	An Efficient CNN+Sparse Transformer-based Intrusion Detection Method for IoT	
16:58-17:07	Yiying Zhang, Yifan Fan, Zhenkun Guo, Hao Ma, Qianqian Guan, Wei Jiang, and Wenjing Li	
Paper 824	Reversible Data Hiding Based on Octree Partitioning and Arithmetic Coding in	
- / / / / / / / / / / / / / / / / / / /	Encrypted Three-Dimensional Mesh Models	
17:07-17:16	Xiaochun Wu, Jiawang Zhang, Qi Yao, and Wanli Lyu	
Paper 2083	Textual Backdoor Attack via Keyword Positioning	
17:16-17:25	Depeng Chen, Fangfang Mao, Hulin Jin, and Jie Cui	
Danar 2260	A Dual Channel Attention Mechanism-Based Intrusion Detection Model for Advanced	
Paper 2369 17:25-17:34	Metering Infrastructure	
17:25-17:34	Zhenkun Guo, Yeshen He, Yifan Fan, Xueliang Wang, Meiming Fu, and Yiying Zhang	

#### Afternoon, August 6, Tuesday, Room E

#### **Intelligent Computing in Computer Vision**

#### Chair: Jianhua Cao

Paper 1525	<b>Domain Adaptive Object Detection with Dehazing Module,</b> Gang Pan, Kang Liu, Jingxin
15:46-15:55	Li, Rufei Zhang, Sheng Shen, Zhiliang Zeng, Jiahao Wang, and Di Sun

Paper 2138	Aesthetics-driven Active Reinforcement Learning for Color Enhancement	
15:55-16:04	Yuanhang Gao, Qi Zhu, Yutian Fu, and Dong Liang	
Paper 2421	Automatic detection and assessment of corals in shallow sea regions based on deep	
16:04-16:13	learning models, Jianhua Cao and Naiqi Zhang	
Paper 2166	Beyond the limits: Tackling Extreme Overexposure with Diffusion Model	
16:13-16:22	Zhengyan Xu, Yachao Li, Feng Dong, and Dong Liang	
Paper 808	MPRNet: Multi-scale Pointwise Regression Network for Crowd Counting and	
16:22-16:31	Localization, Chenyan Jia, Zhitao Cheng, Yanlin Leng, Junfeng Wang, and Yong Tang	
Paper 2229	Efficient Local Imperceptible Random Search for Black-box Adversarial Attacks	
16:31-16:40	Yining Li, Shu You, Yihan Chen, and Zhenhua Li	
Paper 679	FusionCraft: Fusing Emotion and Identity in Cross-Modal 3D Facial Animation	
16:40-16:49	Zhenyu Lv, Xuan Wang, Wenfeng Song, and Xia Hou	
Paper 936	Efficient Sensing Network and Decoupled Neural Model for Hand Pose Estimation	
16:49-16:58	Guanya Zhou, Yubing Liu, Changyunkun Xiao, and He Yu	
Paper 1724	RIHNet: A robust image hiding method for JPEG compression	
16:58-17:07	Xin Jin, Zien Cheng, Qian Jiang, PingWei, Yunyun Dong, Liwen Wu, and Shengfa Miao	
D 100	Automatic Correction Method of Industrial Instrument Images Based on YOLOv8	
Paper 109	Keypoint Detection and Perspective Transformation	
17:07-17:16	Chuanlei Zhang, Lei Shi, Na Bu, Gongcheng Shi, Weichen Feng, Hui Ma, and Zehua Wang	
Paper 733	RAY-Net: A Motorcycle Helmet Detection Method Integrated Auxiliary Correction	
17:16-17:25	Zhiqiang Liu, Zhiguang Wang, Xiaoxue Li, Liuyu Zhu, Siying Hu, and Qiang Lu	
Paper 2129	Enhancing Unsupervised Domain Adaptive Person Re-Identification Clustering through	
17:25-17:34	Parsing-Based Attribute Labeling, Ge Cao and Kanghyun Jo	
Paper 475	A Large Model Assisted Remote Sensing Image Scene Understanding Algorithm Based on	
17:34-17:43	Object Detection, Zilong Wang, Zishan Xu, Wei Yang, Wei Chen, and Yuyu Yang	

#### Afternoon, August 6, Tuesday, Room F

#### **Knowledge Discovery and Data Mining**

#### Chair:Lingjie Li

Paper 750	Chinese Event Extraction for Epidemic Prevention and Control Domain
15:46-15:55	Xiaoxue Li, Zhiguang Wang, Zhiqiang Liu, Liuyu Zhu, Saisai Ge, and Qiang Lu
Paper 1154	Personalized group recommendation model based on hybrid graph neural network
15:55-16:04	Cong Wang, Yancui Shi, and Jin Peng
Paper 1492	CMCoref: A Constraint-based Approach for Document Coreference Resolution
16:04-16:13	Ying Mao, Xinran Xie, Yong Peng, and Yong Zhong
Paper 1896	An Improved Label Propagation Algorithm Based on Motif and Critical Node for
16:13-16:22	Community Detection, Jiajia Yang and Yuyan Zheng
Paper 2275	AGDM: Adaptive Granularity and Dimension Decoupling for Multidimensional Time
16:22-16:31	Series Classification, Guohui Ding, Shizhan Geng, Qingyang Jiao, and Tianhao Jiang
Paper 1952	TIFE: Tree-structured Interactive Feature Enhancement for Multivariate Time Series
16:31-16:40	Forecasting, Yixiang Wang, Haonan Li, and Zhenguo Zhang

Paper 2311	Negative Samples Selection can Improve Graph Contrastive Learning in Collaborative
16:40-16:49	Filtering, Yifan Shao, Xu Cai, Fangming Gu, and Ximing Li
Paper 2093	Link Prediction Based on Contrastive Multiple Heterogeneous Graph Convolutional
16:49-16:58	Networks, Dongming Chen, Yue Shen, Huilin Chen, Mingshuo Nie, and Dongqi Wang
Paper 2000	Multi-task Online Course Recommendation Method Based on FDMA
16:58-17:07	Yajiang Zhang, Ting Ke, Na Bu, and Zhimin Zhang
Paper 1807	Next Points of Interest Recommendations Based on Spatio-Temporal-Category Pattern
17:07-17:16	Information, Jin Peng, Yancui Shi, and Cong Wang
Paper 1370	KGhish: A Phishing Website Detection Method Based on Knowledge Graph
17:16-17:25	Changlin Liu, Shanshan Wang, Zhenxiang Chen, Limei Huang, Yan Li, and Hanwen Li
Paper 1160	Data Augmentation Integrating User Preferences for Sequential Recommendation
17:25-17:34	Shuai Wang, Yancui Shi, Hao Yang, and Jie Zheng

#### Afternoon, August 6, Tuesday, Room G

#### **Machine Learning**

Chair: Zisha	Chair: Zishan Xu	
Paper 2013 15:46-15:55	NVCGAN: Leveraging Generative Adversarial Networks for Robust Voice Conversion Guoyu Zhang, Jingrui Liu, Wenhao Bi, Guangcheng Dongye, Li Zhang, Ming Jing, and Jiguo Yu	
Paper 729	Research on Anomaly Detection of Parts in Workshop Production Line Based on	
15:55-16:04	BO-XGBoostLSS, Lifeng Lu, Yanhua Zhang, Zhanjun Si, and Zhuangzhuang Dou	
Paper 2392	Cross-modal recipe retrieval with Hierarchical Transformers and Pretrained Food Image	
16:04-16:13	Encoder, Hanyan Qin, Xiankun Zhang, and Chen Song	
Paper 745	Attention Enhanced Transformer for Multi-Agent Trajectory Prediction	
16:13-16:22	Kainan Yao, Fengxia Han, and Shengjie Zhao	
Paper 2149	Boosting MLPs with a Coarsening Strategy for Long-Term Time Series Forecasting	
16:22-16:31	Nannan Bian, Minhong Zhu, Li Chen, and Weiran Cai	
Paper 871	Anomalous Sound Detection Framework Based on Masking Strategy	
16:31-16:40	Xiang Li, Caidan Zhao, Chenxing Gao, and Wenxin Hu	
Paper 1000	Dictionary Temporal Graph Network via Pre-Training Embedding Distillation	
16:40-16:49	Yipeng Liu and Fang Zheng	
Paper 2033	Density Clustering Algorithm Based on Shortest Path Maximum Interval	
16:49-16:58	ShuLiang Wang, MingRui Dai, Qi Li, and TianSheng Zhong	
Paper 705	DWMF: A Method for Hybrid Multimodal Intent Fusion Based on Dynamic Weights	
16:58-17:07	Meng Lv, Zhiquan Feng, and Xiaohui Yang	
Paper 2174	Dynamic Weight Distribution Method of Loss Function Based on Category Theory	
17:07-17:16	Jiehao Chen and Heng Zhao	

#### Morning, August 7, Wednesday, Room A

#### **Biomedical Informatics**

Chair: Wenhao Rao

Paper 741 Application of machine learning and large language model module	for analyzing gut
08:00-08:09 microbiota data, Jianhua Cao, Xiaoyu Xu, and Xiaomeng Zhang	
Paper 1703 DRNet: Early Recognition of Depression Based on National Health St	urvey Data, Haoyu
08:09-08:18 Zhang, Ping Zhang, Ganlu Huang, Zhiyuan Xu, Yueying Wang, Kai Niu, and	d Zhiqiang He
stMCFN: A Multi-view Contrastive Fusion Method for Spatial Domai	in Identification in
Paper 770 Spatial Transcriptomics, Jing Jing, Ying-Lian Gao, Yue Gao, Dao-Hui Ge	e, Chun-Hou Zheng,
08:18-08:27 and Jin-Xing Liu	
Paper 491 Spatial domain identifying: Graph attention network with two different	t decoders
<b>08:27-08:36</b> Yi Liu and Quan Zou	
scGADR: Dimensionality reduction of single-cell RNA-seq data with Z	ZINB-based graph
Paper 162 08:36-08:45	
Yongxuan Tang, Jiawei Luo, Zhongyuan Xu, Zehao Xiong, Bo Wang, and Ng	guyen Hoang Tu
Paper 2028 Heterogeneous Genome Compression on Mobile Devices	
08:45-08:54 Liangliang Chen, Xiaotong Wang, Ziqiang Liao, and Juncong Lin	
Paper 2107 ChiMamba: Predicting Chromatin Interactions Based on Mamba	////
08:54-09:03 Jianing Zhang, Chao Song, Ting Cui, Chunquan Li, and Jiquan Ma	
Paper 2279 BiLETCR: An Efficient PMHC-TCR Combined Forecasting Method	
09:12-09:21 Jiewei Li, Hui Li, Lingxiao Xu, Siye Yang, Ping Wei, and Junli Li	
Paper 595 ProStructNet: Integration of Protein Sequence and Structure for	the Prediction of
09:21-09:30 Multi-label Subcellular Localization, Haopeng Shi, Xiankun Zhang, and	d Qingxu Deng
Paper 992 SGEGCAE: a sparse gating enhanced graph convolutional autoencod	ler for multi-omics
09:30-09:39 data integration and classification, Junliang Shang, Limin Zhang, Linqian	n Zhao, Xin He, Yan
Zhao, Daohui Ge, Jin-Xing Liu, and Feng Li	
Paper 2020 Automatic Multi-label Classification of Interictal Epileptiform	Discharges (IED)
09:39-09:48 Detection based on Scalp EEG and Transformer, Wenhao Rao, Haoca	hen Wang, Kailong
Zhuang, Jiayang Guo, Peipei Gu, Ling Zhang, Xiaolu Wang, Jun Jiang, and	d Duo Chen
Paper 2241 Squeeze and Learn: Compressing Long Sequences with Fourier Trans	sformers for Gene
09:48-09:57 Expression Prediction, Vittorio Pipoli, Giuseppe Attanasio, Marta Lovino,	, Elisa Ficarra

#### Morning, August 7, Wednesday, Room B

#### **Image Processing** Chair: Minda Yao Paper 341 Semantics-enhanced refiner in skip connection for crack segmentation 08:00-08:09 Zhigao Zeng, Jin Wang, Wei Cao, Jianxin Wang, and Jianming Zhang MDIINet: A Few-shot Semantic Segmentation Network by Exploiting Multi-dimensional Paper 431 Information Interaction, Hao Chen, Xintao Qiu, Xiaogen Zhou, Tao Wang, Xinxin Hu, Qing 08:09-08:18 Zhang, Hongjun Liu, Yongyao Wen, Pei Zhang, Xinlin Zhang, and Tong Tong Multi-scale self-attention based semi-supervised remote sensing image semantic Paper 1987 segmentation, Deyan Sun, Hai Liu, Wei Chen, Pengcheng Zhu, Dufeng Chen, Jueting Liu, 08:18-08:27 Jiaqi Wang, and Yuliang Wu Paper 2134 CS-KD: Confused Sample Knowledge Distillation for Semantic Segmentation of Aerial 08:27-08:36 Imagery, Yue Sun, Lingfeng Huang, Qi Zhu, and Dong Liang

Paper 937 08:36-08:45	SMVT: Spectrum-driven Multi-scale Vision Transformer for Referring Image Segmentation, Tianxiao Li, Junhong Chen, Yiheng Huang, Kesi Huang, Qiqiang Xia, Muhammad Asim, and Wenyin Liu
Paper 1105 08:45-08:54	AutoClick: Auto Seed Selection for Interactive Segmentation  Rui Huang, Chaoqun Zhang, Yan Xing, Jingcheng Zeng, and Yifan Zhang
Paper 999 08:54-09:03	GDCSF: Global Depth Convolution-Based Swin Framework for Electron Microscopy Pollen Image Classification  Xuefeng Ma, Shi Bao, Ren Qing-dao-er-ji, Feina Liu, Can Zhang, and Yuchen Ma
Paper 935 09:03-09:12	Superpixel-based Dual-neighborhood Contrastive Graph Autoencoder for Deep Subspace Clustering of Hyperspectral Image, Junhong Li, Renxiang Guan, Yuhang Han, Yaowen Hu, Zihao Li, Yanyan Wu, Ziwei Xu, and Xianju Li
Paper 882 09:12-09:21	USST: Utilizing SimAM and SGA Techniques to Cassava Leaf Diseases Classification in Real Cultivation Environments  Baoyu Chen, Shuting Li, Jingmei He, Feiyong He, Yingbiao Hu, Jingjia Chen, and Huinian Li
Paper 833 09:21-09:30	Self-supervised Siamese Networks with Squeeze-Excitation Attention for Ear Image Recognition, Jinrong He, Yiting He, Longlong Zhai, and Yingzhou Bi
Paper 2377 09:30-09:39	A Multi-dimensional Camera Image Stitching Method under Large Parallax Conditions Chuanlei Zhang, Yubo Li, Tianxiang Cheng, Jianrong Li, Haifeng Fan, Zhiqiang Zhao, Zhanjun Si, and Hui Ma
Paper 2108 09:39-09:48	Optimization Method for Fractal Image Compression Based on Self-Similarity  Evaluation and Gradient Bisection Algorithm  Caixu Xu, Di Xie, Hui Guo, Jie He, and Minglang Chen
Paper 2214 09:48-09:57	GLAD: A Global-Attention-Based Diffusion Model for Infrared and Visible Image Fusion  Haozhe Guo, Mengjie Chen, Kaijiang Li, Hao Su, and Pei Lv

#### Morning, August 7, Wednesday, Room C

#### **Nature Inspired Computing and Optimization**

Chair: Hong Lin	
Paper 773	Dense Center Point Mechanism: A Novel Approach for Multi-Expert Decision Integration
08:00-08:09	in Portfolio Management, Dandan Li, Wei Xu, and Qian Li
Daman 2162	ContMulti-objective optimization model for momentum change based on genetic
Paper 2163	algorithm
08:09-08:18	Shuo Zhang, Ziqi Kong, Kelvin Xu, Guangxiao Shi, Zixiao Kong, Xia Li, and Jinjin Zan
Paper 239	Quantum Robust Coding for Quantum Image Watermarking
08:18-08:27	Zheng Xing Xiaochen Yuan and Chan-Tong Lam
Daman 220	Quantum-Enhanced Support Vector Machine for Large-Scale Multi-Class Stellar
Paper 328	Classification
08:27-08:36	Kuan-Cheng Chen, Xiaotian Xu, Henry Makhanov, Hui-Hsuan Chung, and Chen-Yu Liu
Paper 404	PyCIM: A Python Framework for the Dynamics of Coherent Ising Machine
08:36-08:45	Peixiang Li, Hao Cheng, Yingwen Liu, Dongyang Wang, and Junjie Wu
Paper 774	Explainable Deep Learning with Human Feedback for Perioperative Complications
08:45-08:54	Prediction, Junya Wang, Guanxiong Wu, Tiantian Tian, Qihua Lin, Chu Xiao, Xiaoyu Tao,

	Jianqiang Li, Yuantao Li, and Jie Chen
Paper 930	Knowledge Distillation with Classmate,
08:54-09:03	Hongwei Su, Han Liu, Weipeng Cao, and Zhong Ming
Paper 1459	Precisely Predicting Neutronics Parameters of Nuclear Reactor
09:03-09:12	Minxiao Zhong, Yuqi Feng, Qing Li, and Yanan Sun
Paper 1546	Physics-informed Neural Networks with Generalized Residual-based Adaptive Sampling
09:12-09:21	Xiaotian Song, Shuchao Deng, Jiahao Fan, and Yanan Sun
Paper 2027	Optimizing the B+tree Index with Hotness Awareness and Adaptivity
09:21-09:30	Yufei Wei, Hongtao Wang, and Peiquan Jin
Paper 2195	Enhancing Mutation Matrix Adaptation Evolution Strategy with Orthogonal Sampling
09:30-09:39	Minghui Hu, Zhenhua Li, and Hanwen Zhang
Paper 1876	BayesTSF: Measuring Uncertainty Estimation in Industrial Time Series Forecasting
09:39-09:48	from a Bayesian Perspective, Qingyi Pan, Pei Yang, and Jingyi Zhang
Paper 1890	BotScout: A Social Bot Detection Algorithm Based on Semantics, Attributes and
09:48-09:57	Neighborhoods ,Hong Lin, Nuo Chen, Yang Chen, Xiang Li, and Cong Li

#### Morning, August 7, Wednesday, Room D

#### **Information Security**

Chair: Wei C	Chair: Wei Chen	
Paper 1050	Full Database Reconstruction: Leakage-Abuse Attacks Based on Expected Distributions	
08:00-08:09	Ruizhong Du, Xijie She, Mingyue Li, and Ziyuan Wang	
Paper 2012	HybridHash: An Efficient Hash Index for Encrypted Databases	
08:09-08:18	Boheng Lin, Hongtao Wang, Peiquan Jin, and Xiaoniu Fang	
Paper 2046	Real-Time Detection for GPS Spoofing of Quad-rotor Helicopter Based on Data Fusion	
08:18-08:27	Jialiang Wang, Liuyang Nie, Zhaojun Gu, and Huan Zhao	
Paper 2287	Root Cause Analysis of Anomaly in Smart Homes through Device Interaction Graph	
08:27-08:36	Jian Ge, Jianwu Rui, Hengtai Ma, Bin Li, and Yeping He	
Paper 400	A Coverless Image Steganography Based on a Robust Object Detection Network	
08:36-08:45	Laijin Meng, Xinghao Jiang, Qiang Xu, and Zhongjie Mi	
Paper 548	Robust Generative Steganography via Intermediate State Normal Distribution	
08:45-08:54	Tian Wu, Xuan Hu, Yijun Hu, Yizhe Wang, Chunnian Liu, and Yiping Zhu	
Paper 2406	Collaborative Defense Method Against DDoS Attacks on SDN-Architected Cloud Servers	
08:54-09:03	Yiying Zhang Yao Xu Longzhe Han Kun Liang and Wenjing Li	
Paper 1994	DM-CIFA: Detection and Mitigation of Collusion Interesting Flooding Attacks in NDNs.	
09:03-09:12	Yanan Zhang, Jingru Xing, Yaozong Xu, Maode Ma, and Cong Wang	
Paper 2317	EPTLENet: Replay Attack Detection with Efficient Parameter Transfer Learning based	
09:12-09:21	on ERes2Net, Qing Qian, Yi-Lin Kuang, and Yi Yue	
Paper 505	Firm-Vehicle: Trusted Communication Enabled Instruction Embedding Model for	
09:21-09:30	Resource-Constrained VANET Environments, Rui Chen, Waleed Younas, and Jing Zhao	
Paper 1001	Improving WiFi CSI Fingerprinting with IQ Samples	
09:30-09:39	Junjie Wang, Yong Huang, Feiyang Zhao, Wenjing Wang, Dalong Zhang, and Wei Wang	

Paper 2291	Domain-Knowledge Enhanced GANs for High-Quality Trajectory Generation
09:39-09:48	Jia Jia, Linghui Li, Pengfei Qiu, Binsi Cai, Xu Kang, Ximing Li, and Xiaoyong Li
Paper 2419	Design of A Blockchain-based Trust Model for Detecting Cache Poisoning Attakes in
09:48-09:57	NDN, Yuwen Xiong, Cong Wang, Chuang Chen, Jiawen Xu, Maode Ma, and Tong Zhou
Paper 988	U-shaped Vertical Split Learning With Local Differential Privacy for Privacy Preserving
09:57-10:06	Liang Wang, Hao Chen, Lina Zuo, and Haibo Liu

#### Morning, August 7, Wednesday, Room E

#### **Natural Language Processing and Computational Linguistics**

#### Chair: Weixiong Zheng

Paper 408	Knowledge Graph Completion via Multi-Feature Learning
08:00-08:09	Hanwen Zhang, Juanjuan Yao, and Yian Zhu
Paper 1888 08:09-08:18	Instruct-Code-Llama: Improving Capabilities of Language Model in Competition Level
	Code Generation by Online Judge Feedback
	Zhaofeng Liu, Jing Su, Jia Cai, Jingzhi Yang, and Chenfan Wu
Paper 2109	Nested Named Entity Recognition in Geotechnical Engineering Based on Pre-training
08:18-08:27	And Information Enhancement
08:10-08:27	Guanyu Chen, Yang Hu, Zuheng Wang, Zhiquan Song, Jun Hu, Tuo Yang, and Quanyu Wang
Paper 2227	Semantics Fusion of Hierarchical Transformers for Multimodal Named Entity
08:27-08:36	Recognition, Zhao Tong, Qiang Liu, Haichao Shi, Yuwei Xia, Shu Wu, and Xiao-Yu Zhang
Paper 896	Hierarchical Mutual Prompt for Chinese Few-Shot Event Detection, Shuxiang Hou,
08:36-08:45	Yurong Qian, Jiaying Chen, Jigui Zhao, Huiyong Lv, Yi Lu, and Hongyong Leng
Paper 653	Integrating Emotion and Topic in Empathetic Dialogue from both Static and Dynamic
08:45-08:54	Perspectives, Jiawang Hao, Fang Kong, and Yuanchen Shi
Paper 152	Large Models and Multimodal: A Survey of Cutting-edge Approaches to Knowledge
08:54-09:03	Graph Completion
08.34-09.03	Minxin Wu, Yufei Gong, Heping Lu, Baofeng Li, Kai Wang, Yanquan Zhou, and Lei Li
Paper 2272	RuleGLM: An Ethics Evaluation Framework with Knowledge Vector Space
09:03-09:12	Chenglin Li, Cheng Liu, and Weichao Wu
Paper 2113	Mongolian-Chinese Neural Machine Translation Based On Sustained Transfer Learning
09:12-09:21	Bailun Wang, Yatu Ji, Nier Wu, Xu Liu, Yanli Wang, Rui Mao, Shuai Yuan, Qing-Dao-Er-Ji
07.12-07.21	Ren, Na Liu, Xufei Zhuang, and Min Lu
Paper 2057	Topics Guided Multimodal Fusion Network for Conversational Emotion Recognition
09:21-09:30	Peicong Yuan, Guoyong Cai, Ming Chen, and Xiaolv Tang
Paper 2295	Fusion of Root and Affix Information with Pre-trained Language Models for Text
09:30-09:39	Classification, Yujia Wu, Xuan Zhang, Guohua Xiao, and Hong Ren
Paper 1003	Editing Knowledge Representation of Language Model via Rephrased Prefix Prompts
09:39-09:48	Yuchen Cai, Ding Cao, Rongxi Guo, Yaqin Wen, Guiquan Liu, Enhong Chen, and Jingyun
07.37-07.40	Zhang

#### Morning, August 7, Wednesday, Room F

#### **Knowledge Discovery and Data Mining**

Chair: Yanaı	Chair: Yanan Zhang	
Paper 973 08:00-08:09	A Novel Multi-Behavior Contrastive Learning and Knowledge-enhanced Framework for Recommendation  Hao Liu, Tao Sun, Zhiping zhang, Hongyan Zheng, Gengchen Liu, Zhi Yang, and Xiaoyu Wang	
Paper 787 08:09-08:18	Globally Informed Graph Contrastive Learning for Recommendation  Yixing Zheng, Chengxi Li, Junyu Dong, and Yanwei Yu	
Paper 2330 08:18-08:27	Online Multivariate Time Series Anomaly Detection Method Based on Contrastive Learning, Xiyao Dong, Hui Liu, Junzhao Du, Zhengkai Wang, and Cheng Wang	
Paper 2362 08:27-08:36	Node Embedding Enhancement Model Based on Joint Optimization of Clustering  Distribution  Zhihong Zhang, Ziyuan Liu, and Lijuan Zhou	
Paper 684 08:36-08:45	TVD-BERT: A Domain-Adaptation Pre-Trained Model for Textural Vulnerability  Descriptions, Ziyuan Wang, Xiaoyan Liang, Ruizhong Du, Junfeng Tian, and Siyi Zhang	
Paper 699 08:45-08:54	Improving Large Language Models in Multi-party Conversations through Role-playing  Yilin Zhong, Jiahao Xie, Jie Wang, Bo Fan, Zhaoer Fang, and Banghuang Peng	
Paper 702 08:54-09:03	Context Compression and Extraction: Efficiency Inference of Large Language Models  Junyao Zhou, Ruiqing Du, Yushan Tan, Jintao Yang, Zonghao Yang, Wei Luo, Zhunchen Luo,  Xian Zhou, and Wenpeng Hu	
Paper 2168 09:03-09:12	Impression Evaluation of Chat Robot with Bodily Emotional Expression Incorporating  Large-scale Language Models  Zhong Qiang, Yukiharu Nagai, Hisato Fukuda, Ryota Suzuki, and Yoshinori Kobayashi	
Paper 894 09:12-09:21	Short-term PV Output Forecasting Approach Based on Deep Learning and Singular Spectrum Analysis  Xingtong Pan, Xiaoyang Wang, Miaolin Yang, Yixiang Deng, Binyang Wang, and Yunlin Sun	
Paper 2374	R-CAE-Informer based Short-Term Load Forecasting by Enhancing Feature in Smart	
09:21-09:30 Paper 2417 09:30-09:39	Grids, Yiying Zhang, Ke Liu, Yanping Dong, Siwei Li, and Wenjing Li  An Efficient Query System for Coal Mine Safety Information Based on Retrieval-Augmented Language Model  Pengcheng Zhu, Wei Chen, Dufeng Chen, Jueting Liu, Zemeng Liu, Yingchun Liu, and Guoyuan Lin	

#### Morning, August 7, Wednesday, Room G

#### **Intelligent Control and Automation**

#### Chair: Fengying Ma

Paper 2061	Refine Camera Calibration with Global Geometry Constraints
08:00-08:09	Mi Yang, Wei Chen, Jing Hu, ZhongChen Shi, Liang Xie, Ye Yan, and ErWei Yin
Paper 499	The degree of symmetry of fuzzy relations
08:09-08:18	Junyi Lin, Xuanxuan Li, and Gang Li
Paper 947	A Parallel Intelligent Search and Rescue System for Swarm Robots Based on Digital Twin
08:18-08:27	Luosong Guo, Gengyuan Cai, Kun Zhu, Houming Qiu, and Chengyong Liu
Paper 2141	Large-Scale Electroplating Scheduling: A Hierarchical Temporal Planning Approach

08:27-08:36	Yingkai Xiao, Kebing Jin, Renyong Ma, and Hankui zhuo
Paper 2042	A Dynamic Model of Multi-State LVAD Based on LSTM Neural Network
08:36-08:45	Aiping Tan, Ying Mu, Wenqian Yu, Chenxi Liang, and Yanfeng Chen
Paper 352 08:45-08:54	LightSnore-Net: A Lightweight Neural Network for Snoring Detection and Mitigation in Smart Pillows  Xin Luo, Zijun Mao, Suqing Duan, Xiankun Zhang, Chuanlei Zhang, and Haifeng Fan
Paper 407	Robust adaptive neural network-based funnel tracking control of a class of perturbed
08:54-09:03	Euler-Lagrange systems, Xingcheng Tong, Zhiye Zhao, and Xiaozheng Jin
Paper 819 09:03-09:12	A Real-time Exoskeleton Control Strategy for Multiple Gaits Based on Continuous State  Variable Driving and MiniRocket Recognition  Zhicong Chen, Hui Wang, Jing Lei, Chao Jiang, and Shenwei Shou
Paper 1618	Scheduling Strategy to Minimize Makespan for Energy-Efficient Parallel Applications in
09:12-09:21	Heterogeneous Computing Systems, Lin Cheng, Jing Wu, Wei Hu, Haodi Li, and Ziyu Chen
Paper 512	Adaptive fixed-time sliding-mode trajectory tracking control of a cart-pendulum robot
09:21-09:30	against actuator attacks, Jiadong Liu, Zhiye Zhao, and Xiaozheng Jin
Paper 1959	Subtask-Aware Energy Allocation Algorithm for Parallel Applications Scheduling on
09:30-09:39	Heterogeneous Computing Systems, Zirui Li, Jing Wu, Haodi Li, and Wei Hu
Paper 2221	OCP: An Online Contingent Planning Method for Robot Tasks with Incomplete
09:39-09:48	Knowledge, Zhiqun Xiao, Shuo Yang, Yuanzhou Xue, Shuo Wang, and Xinjun Mao

#### Morning, August 7, Wednesday, Room A

#### **Medical Image Processing and Analysis**

#### Chair: Haoquan Chen

Paper 2111	IG-GRD: A Model Based on Disentangled Graph Representation Learning for Imaging
•	Genetic Data Fusion
10:16-10:25	Shuang Feng, Letian Wang, Chang Li, Xiaohua Wan, Fa Zhang, and Bin Hu
Paper 2353	MCA-Net: A Lightweight Multi-order Context Aggregation Network for Low Dose CT
10:25-10:34	Denoising, Jianfang Li, Li Wang, ShengXiang Wang, Zitong Yu, Yakang Li, and Fazhi Qi
Paper 2203	Fetal Cardiac Structure Detection Using Multi-task Learning, Jie He, Lei Yang, Yunping
10:34-10:43	Zhu, Donglian Li, Zhixing Ding, Yuhuan Lu, Bocheng Liang, and Shengli Li
D 1201	DepthParkNet: A 3D Convolutional Neural Network with Depth-Aware Coordinate
Paper 1201	Attention for PET-Based Parkinson's Disease Diagnosis, Maoyuan Li, Ling Chen, Jianmin
10:43-10:52	Chu, Xinchong Shi, Xiangsong Zhang, Gansen Zhao, and Hua Tang
D 1726	FD-DUNet: Frequency Domain Global Modeling Enhances Receptive Field Expansion
Paper 1726	UNet for Efficient Medical Image Segmentation
10:52-11:01	Hang Qi, Weijiang Wang, Chuxuan Shan, Xiaohua Wang, Minli Jia, and Hua Dang
Paper 2035	Multi-Source Unsupervised Domain Adaptation for Medical Image Recognition
11:01-11:10	Qicheng Zhang
D 2150	Combining CNN and Self-Attention-Free Transformer using Local-Global Attention
Paper 2158	Fusion for Lung Cancer Segmentation
11:10-11:19	Jiancun Zhou, Hulin Kuang, Yahui Wang, and Jianxin Wang

Paper 1630	An Improved U-Net Model for Simultaneous Nuclei Segmentation and Classification
11:19-11:28	Taotao Liu, Dongdong Zhang, Hongcheng Wang, and Xumai Qi
Paper 2300 11:28-11:37	ViT-Based Multi-Task Learning Method for Pulmonary Embolism Detection,  Localization, and Type Classification  Ammar Nassr Mohammed, Hulin Kuang, and Jianxin Wang
Paper 2084 11:37-11:46	TMU: Transmission-enhanced Mamba-UNet For Medical Image Segmentation  Xiongfeng Yang, Ziyang Luo, Yanlin Wu, Xueshuo Xie, Li Nan, and Tao Li
Paper 1069 11:46-11:55	Aggregation Strategy with Gradient Projection for Federated Learning in Diagnosis  Huiyan Lin, Yunshu Gao, Heng Li, Xiaotian Zhang, Xiangyang Yu, Jianwen Chen, and Jiang Liu
Paper 515	Mitigating Data Imbalance in Medical Report Generation through Visual Data
11:55-12:04	Resampling, Haoquan Chen, Bin Yan, and Mingtao Pei

#### Morning, August 7, Wednesday, Room B

#### **Image Processing**

Chair: Xingt	Chair: Xingtao Wang	
Paper 851	HDR Video Coding based on Perceptual Optimization	
10:16-10:25	Jiamin Sun, Zhongjie Zhu, Weifeng Cui, Yongqiang Bai, and Zhijing Yu	
Paper 1093	Consistent Panoramic Video Style Transfer via Temporal-Spatial Cross Perception	
10:25-10:34	Weiyu Wang, Chunmei Qing, Junpeng Tan, and Xiangmin Xu	
Paper 2106	Conformer based No-reference Quality Assessment for UGC Video	
10:34-10:43	Zike Yang, Yingxue Zhang, and Zhanjun Si	
Paper 828	FRFT domain watermarking algorithm based on GA adaptive optimization	
10:43-10:52	Qiaoqiao Du, Yanchen Zhao, Weijie Hao, and Wenyin Zhang	
Paper 775	DeCoGAN: Photo Cartoonization Based on Deformation Consistency GAN	
10:52-11:01	Mengyao Chen, Xiaofei Yu, Junhao Zhang, and Jie Ma	
Paper 389	Refinement Correction Network For Scene Text Detection	
11:01-11:10	Zhe Lian, Yanjun Yin, Wei Hu, Qiaozhi Xu, Min Zhi, Jingfang Lu, and Xuanhao Qi	
Paper 483	A Multimodal Fake News Detection Model with Self-Supervised Unimodal Label	
11:10-11:19	Generation, Yun Liu, Zhipeng Wen, Minzhu Jin, Daoxin Fan, Sifan Li, Bo Liu, Jinhe Jiang,	
11,10-11,17	and Xianda Xiao	
Paper 1958	PlantViQ: Disease Recognition Across Varied Environments with Vision Transformer and	
11:19-11:28	Quadrangle Attention, Shuting Li, Baoyu Chen, Feng Li, Jingmei He, Feiyong He, Yingbiao	
11.17-11.20	Hu, Jingjia Chen, and Huinian Li	
Paper 1800	A Fusion Framework of Whitespace Smear Cutting and Swin Transformer for Document	
11:28-11:37	Layout Analysis, Ran Chen, Jo-Ku Cheng, and Jinwen Ma	
Paper 647	Unsupervised Subdomain Adaptation Robust to Noisy Pseudo Labels Using Symmetric	
11:46-11:55	Loss, Longxia Guo, Yunlong Yan, and Yundong Li	
Paper 2136	CD-Font: One-Shot Font Generation via Conditional Diffusion Model with Disentangled	
12:04-12:13	Guidance, Siyi Chen, Zhenhua Li, and Dong Liang	
Paper 755	Panoramic Video Inter Frame Prediction and Viewport Prediction based on Background	
12:13-12:22	Modeling, Changli Wang, Xingtao Wang, Kaixin Wu, and Xiaopeng Fan	

Paper 700	Implementation and application of violence detection system based on Multi-head
12:22-12:30	Attention and LSTM, Fengping Cao, Yi Miao, and Wangyi Zhang

#### Morning, August 7, Wednesday, Room C

#### **Neural Networks**

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(Ch	air:	Xura	ın Pan

Paper 174	Trust Evaluation with Deep Learning in Online Social Networks: A State-of-the-art Review
10:16-10:25	
	Zhiqi Li, Weidong Fang, Chunsheng Zhu, Wentao Chen, Tianpeng Hao, and Wuxiong Zhang
Paper 800	Joint Prior Relation Enhancement and Non-Autoregressive Decoding for
10:25-10:34	Document-Level Event Extraction
	Xue Kang, Yan-Ni Han, Wen Zhang, Han Jiang, Yi Xiang, and Shu-Guang Liu
Paper 327	Selecting Effective Triplet Contrastive Loss for Domain Alignment
10:34-10:43	Changshi Li and Zhijian Yang
Paper 1900	PaSeMix: A Multi-Modal Partitional Semantic Data Augmentation Method for
10:43-10:52	Text-Based Person Search,
10.45 10.52	Xinpan Yuan, Jiabao Li, Wenguang Gan, Wei Xia, and Yanbin Weng
Paper 472	Improved CNN Model using Innovative Adaptive-DropMessage for Gomoku game
10:52-11:01	Kangjie Cao, Xiali Li, Jinyao Wu, Hu Yuan, Wentao Li, Jiayun Li, He Huang, Jueqiao Huang,
10:32-11:01	and Weijun Cheng
Paper 848	Optimization of NUMA aware DNN computing system
11:10-11:19	XiaoXiang Fang, Pan Dong, Jun Luo, LeiLei Li, Yan Ding, and Zhe Jiang
Paper 474	A Survey: Feature Fusion Method for Object Detection Field
11:19-11:28	Zhe Lian, Yanjun Yin, Jingfang Lu, Qiaozhi Xu, Min Zhi, Wei Hu, and Wentao Duan
Paper 1950	Subdomain Adaption Network Combining Cosine Distance And Angle Margin
11:28-11:37	Xuhao Gong, Bo Li, and Jiaming Yu
Paper 863	Federated Learning Cellular Traffic Prediction Based on Multi-Time Scale Information
11:37-11:46	Xingzhen Gao, Yuhong Zhao, Jingyu Wang, and Chuanting Zhang
Paper 523	YOLO-Fire: A Fire Detection Algorithm Based on YOLO
11:46-11:55	Bo Xu, Fengyou Hua, Qun Yang, and Tao Wang
Paper 2047	Neural Network Verification Accelerated by a Novel Abstract Framework
11:55-12:04	Jiaqi Liu and Meng Wang
Paper 536	From Vision to Sound: the Application of ViT-LSTM in Music Sequence
12:04-12:13	Menghao Fang, Shuo Zhang, Xia Li, Liangbin Yang, and Zixiao Kong

#### Morning, August 7, Wednesday, Room D

#### **Information Security**

#### **Chair: Cong Wang**

Paper 1748	A High-Dimensional Data Trust Publishing Method Based on Attention Mechanism and
10:16-10:25	Differential Privacy
10:10-10:25	Taiqiang Li, Zhen Zhang, Heng Qian, Qiuyue Wang, Guanqun Su, and Lingzhen Meng

Paper 2043	Anonymous and Efficient Authentication Scheme for Privacy-Preserving Federated
10:25-10:34	Cross Learning, Zeshuai Li and Xiaoyan Liang
Paper 2380	A Routing Algorithm for Frequent Micropayments based on Payment Channel Networks
10:34-10:43	Sijia Zhao
D 1027	CSQF-BA: Efficient Container Query Technology for Cloud Security Query Framework
Paper 1027	with Bat Algorithm,
10:43-10:52	Chao-Hsien Hsieh, Fengya Xu, Dehong Kong, Qingqing Yang, and Yue Ma
Paper 2139	Steganalysis of VoIP Streams via Bidirectional Correlation Extract Network
10:52-11:01	ShenHong Cao, KaiXi Wang, and YanBin Fan
Paper 2336	Constructing Adversarial Network Attacks in Realistic Network Environments
11:01-11:10	Hanwen Li, Shanshan Wang, Yadi Han, Changlin Liu, and Zhenxiang Chen
Paper 997	Eavesdropping Mobile Apps and Actions through Wireless Traffic in the Open World
11:10-11:19	Xiaoguang Yang, Yong Huang, Junli Guo, Dalong Zhang, and Qingxian Wang
Paper 795	A State of the Art Review on Artificial Intelligence-Enabled Cyber Security in Smart
11:19-11:28	Grid
11.19-11.20	Hao Huang, Wentao Chen, Weidong Fang, Wei Chen, Wai-Hung Ip, and Kai-Leung Yung
Paper 421	A vulnerability detection method for smart contract using opcode sequences with
11:28-11:37	variable length, Xuelei Liu, Guojun Wang, Mingfei Chen, Peiqiang Li, and Jinyao Zhu
Paper 2278	DAS-Gen: Continual Signature Generation for Evolving Malicious Traffic
11:37-11:46	Gang Yang, Bo Wu, Weifeng Mou, Linna Fan, Xuan Shen, and Jun He
Paper 176	Deep Neural Network-based Intrusion Detection in Internet of Things: A State-of-the-art
11:46-11:55	Review, Zhiqi Li, Weidong Fang, Chunsheng Zhu, Wentao Chen, Zhiwei Gao, Xinhang Jiang,
11:40-11:55	and Wuxiong Zhang
Paper 704	Personalized Federated Learning: Bridging Data Privacy and Model Accuracy on
11:55-12:04	JointCloud
11:55-12:04	Jingjing Guo, Bo Yi, Xingwei Wang, Jiaxin Zhang, Enliang Lv, Kaimin Zhang, and Lin Qiu
Paper 766	Federated Meta-Learning: Methodologies and Directions, Minda Yao, Wei Chen, Tingting
12:04-12:13	Xu, Chuanlei Zhang, Jueting Liu, Dufeng Chen, and Zehua Wang
Paper 2308	Federated Learning for Assigning Weights to Clients on Long-Tailed Data
12:13-12:22	Yang Li and Kan Li

#### Morning, August 7, Wednesday, Room E

**Natural Language Processing and Computational Linguistics** 

# Chair: Jing Pu YangPaper 1828Multi-Task Learning for Hyper-Relational Knowledge Graph Completion10:16-10:25Jiaqian Yin, Jie Zhou, Yongxue Shan, Jie Peng, Haijiao Liu, Xin Zhou, and Xiaodong WangPaper 364<br/>10:25-10:34A Novel World Knowledge Aware Universal Representations of Design Patterns Based on<br/>Pre-trained Language Models<br/>Dongzhen Wen, Dong Liu, Zheng Yao, He Jiang, and Hongfei Lin

**Paper 1057** 

10:34-10:43

ACT-R Theory Can Promote Personality Analysis of Social Network Subjects

Li-Teng Miao, Yi-Zhuo Ma, Ke Qin, Rui-Ting Dai, and Ahmad Raza

Paper 1072	MSMD: A Multi-Stage Meta Distillation Strategy for Cross-Lingual Natural Language
10:43-10:52	Understanding, Han Liu and Gulila ALTENBEK
Paper 2094	Cybernetic Sentinels: Unveiling the Impact of Safety Data Selection on Model Security in
10:52-11:01	Supervised Fine-Tuning, Ruihui Wang, Hongying He, and Yuan Sun
Paper 1029	Multi-hop Segmentation for Knowledge Graph Reasoning Based on Deep Reinforcement
11:01-11:10	Learning, Mengke Wei, Chengming Liu, Jiahao Guan, Yinghao Li, and Lin Wei
Paper 856	Data-Driven MoE: A Data-Driven Approach to Construct MoE by a Single LLM
11:10-11:19	Zeyu Teng, Zhiwei Yan, Yong Song, Xiaozhou Ye, and Ye Ouyang
Paper 2305	Enhancing Retrieval-Augmented LMs with a Two-stage Consistency Learning
11:19-11:28	Compressor, Chuankai Xu, Dongming Zhao, Bo Wang, and Hanwen Xing
Paper 1287	Simple Techniques for Enhancing Sentence Embeddings in Generative Language Models
11:28-11:37	Bowen Zhang, Kehua Chang, and Chunping Li
Paper 1963	Implementing Dialogue Emotion Recognition via Recursive Propagation of Explicit
11:37-11:46	Emotions, Zhibo Zhang, Zhenyu Yang, Wenyue Hu, Baojie Xu, and Yan Huang
Paper 380	Enhancing emotion recognition in conversation with dialogue discourse structure and
11:46-11:55	commonsense knowledge, Jiawang Hao, Fang Kong, and Junjun Kang
Paper 1953	Improving Empathetic Response Generation by Emotion Recognition and Information
11:55-12:04	Filtration, Guodong Shi, Hongxu Hou, Wei Chen, Shuo Sun, Yuan Zhao, and Jipeng Ma
Paper 2148	MBDA: A Multi-Scale Bidirectional Perception Approach for Cross-Corpus Speech
12:04-12:13	Emotion Recognition, Jiayang Li, Xiaoye Wang, Siyuan Li, Jia Shi, and Yingyuan Xiao
Paper 840	Efficient Reinforcement Learning via Decoupling Exploration and Utilization
12:13-12:22	Jingpu Yang, Helin Wang, Qirui Zhao, Zhecheng Shi, Zirui Song, and Miao Fang

#### Morning, August 7, Wednesday, Room F

#### **Intelligent Data Analysis & Prediction**

Chair: Hand	uo Zhang
Paper 1971	CPMA:Spatio-temporal Network Prediction Model Based On Convolutional Parallel
10:16-10:25	Multi-head Self-attention, Tiantian Liu, Xin You, and Ming Ma
Paper 1975	Attention Based Multi-scale Spatial-Temporal Fusion Propagation Graph Network for
10:25-10:34	Traffic Flow Prediction, Yuxin Tian, Qiliang Zhang, and Xiaomeng Li
Paper 2162	Daformer: A Novel Dimension-augmented Transformer Framework for Multivariate
10:34-10:43	Time Series Forecasting, Yongfeng Su, Juhui Zhang, and Qiuyue Li
Paper 2173	A Transformer-based Model for Time Series Prediction of Remote Sensing Data
10:43-10:52	Xintian Niu, Yigeng Liu, and Ming Ma
Paper 2255	A Multi-scale Indicators Carbon Emission Prediction Method Based on Decision Forests
10:52-11:01	Dingwei Zhu, Weiyi Miao, Shuting Cheng, and Chao Fan
Paper 2298	Improving the Performance of Intelligent Photo Compliance Detection Method based on
11:01-11:10	Diffusion Model for Telecom User Management
11:01-11:10	Huiying Zhao, Jie Li, Jieqiong Zhang, Xin Wang, and Li Xia
Paper 2350	Semantic Enhancement Network Integrating label Knowledge for multi-modal Emotion
11:10-11:19	Recognition
11.10-11.17	HongFeng Zheng, ShengFa Miao, Qian Yu, YongKang Mu, Xin Jin, and KeShan Yan

Paper 484	SHAF: Semantic-guided Hierarchical Alignment and Fusion for Composed Image
11:19-11:28	Retrieval, Cairong Yan, Erhe Yang, Ran Tao, Yongquan Wan, and Derun Ai
Paper 349	Secure Federated Learning Scheme Based on Differential Privacy and Homomorphic
11:28-11:37	Encryption, Xuyan Zhang, Da Huang, and Yuhua Tang
Paper 2096 11:37-11:46	IDHPre: Intradialytic Hypotension Prediction Model based on Fully Observed Features  Yifan Yao, Zemin Kuang, Xiwen Yang, Baoquan Wang, Zhaomeng Niu, Jiaxin Yang, Lun Hu, Xi  Zhou, and Pengwei Hu
Paper 2302	GD-PTCF: Prompt-Tuning based Classification Framework for Government Data
11:46-11:55	Ming Mao, Duo Zhang, Chao Xia, Yunchuan Guo, Dunmin Zhang, and Xiaolin Li
Paper 2228	Lightweight Sensor Data Fusion based on Dynamic Correlation Maintence- A Case Study
11:55-12:04	on Smart Home, Handuo Zhang, Weiye Xie, Boyang Yin, Jun Na, and Bin Zhang

#### Morning, August 7, Wednesday, Room G

#### **Intelligent Agent and Applications**

Chair: Chen	gkun Xin
Paper 2349	Optimal Defense Strategy for Multi-Agents Using Value Decomposition Networks
10:16-10:25	Weixia Cai, Hong Chen, Huashan Chen, and Feng Liu
Paper 1672	A Multimodal Fusion Plane Selection Algorithm for a Multidimensional Intelligent
10:25-10:34	Interaction Pen, Baizhou Liu and Zhiquan Feng
Panar 2052	Objective Evaluation of VR Sickness and Analysis of Its Relationship with VR Presence
Paper 2052	Wei Quan, Linxuan Li, Cheng Han, Yuechen Zhang, Yongqing Cai, Zhen Liang, Mingming
10:34-10:43	Zheng, and Rui Wang
Paper 2243	Evaluating effect of classroom interior layouts on crowd evacuation efficiency using
10:43-10:52	improved evacuation model, Pei-Hua Song, Ying Li, Guo-Yu Xin, and Chen-Xi Huang
Paper 1039	SF-MCTS: Score Feedback Monte Carlo Tree Search for Digital Curling in Continuous
10:52-11:01	State Space, Qian Xiao, Zongmin Li, Guanlin Li, Chaozhi Yang, Yun Bai, and Yachua Li
Paper 2428	large language model based intelligent interaction for digital human
11:01-11:10	Xiaoying Ma, Yuya Peng, Yingxue Zhang, and Zhanjun Si
Paper 1759	A Federated Anti-money Laundering Detection Model with Bidirectional Graph
11:10-11:19	Attention Network, Wenzheng Liu, Yurong Xie, Xiaoyong Tang, Jinming Hu, Xiaohua Yang,
11.10-11.19	Ronghui Cao, and Tan Deng
Paper 1037	Intelligent Stock Forecasting by Iterative Global-Local Fusion
11:19-11:28	Jiahao Qin, Bihao You, and Feng Liu
Paper 2415	Hybrid Deep Generative and Sequential Learning Approach for Stock Market Prediction
11:28-11:37	Tuo Zhao, Xinxue Wang, Tingting Zhao, Yuan Wang, Yarui Chen, and Jucheng Yang
Paper 1262	ArchDiff: Streamlining Architectural Design with Diffusion-Based Style Generation
11:37-11:46	Yuhan Wu
Paper 1022	Ethical challenges and governance of smart algorithms empowering financial technology
11:46-11:55	Songlian Yan, Min Pan, and Jiahui Yu
Paper 182	Blockchain-Based Equilibrium Anchors Game Pricing Method for Data Element
11:55-12:04	Jiazheng Zhang, Shouwei Li, and Jingwei Li

Paper 814	Correlation Matters: A Stock Price Predication Model Based on the Graph Convolutional
12:04-12:13	Network, Chengkun Xin, Qian Han, and Gang Pan

#### Afternoon, August 7, Wednesday, Room A

#### **Medical Image Processing and Analysis**

#### Chair: Jiuyun Cai

Paper 1017	Transfer Learning from Tumors to Organs at Risk for Cervical Cancer Image
13:30-13:39	Segmentation, Ying Tang, Zhongyue Chen, Yu Ding, Lingli Mao, Zhao Peng, Tingting Chen,
	Yiqun Liu, Wanli Huo, Jingyu Liu, Jiali Gong, and Senting Wang
Paper 1932	MTCS-Net: A Novel Framework for Non-Invasive Myocardial Tissue Quantitative
13:39-13:48	Measurement and Instance Segmentation, Yuqiang Zhang, Yuying Li, Yang Yang, Donghui
	Zhang, Jixing Gong, Xiangfu Meng, Zhongjun Wan, and Shanqing Gao
Paper 2125	TPMA-Net: Topology-Preserving Multi-Scale Aggregation Network for Liver Segments
13:48-13:57	Based Vascular Territory, Qianxi Yi, Songming Yang, Yuanzhuo Zhang, Yi Wang, and Jing Wen
Paper 2391	Attention Dual Adversarial Remote Sensing Image Semantic Segmentation
13:57-14:06	Deyan Sun, Wei Chen, Hai Liu, Dufeng Chen, Zehua Wang, Yuliang Wu, Tingting Xu,
	Pengcheng Zhu, and Jiaqi Wang
Paper 2266	Automatic Meibomian Gland Segmentation and Assessment Based on TransUnet with
14:06-14:15	Data Augmentation
14.00-14.13	Lingjing Lai, Yulin Wu, Jingyuan Fan, Fangrui Bai, Chao Fan, and Kai Jin
Paper 191	MAPNet: A Multi-scale Attention Pooling Network for Ultrasound Medical Image
14:15-14:24	Segmentation, Shixun Wang, Mengjiao Wang, and Yuan Li
Paper 687	Unsupervised Domain Adaptation method for medical Image Segmentation Using
•	Fourier Feature Decoupling and Multi-scale Feature Fusion
14:24-14:33	Wei Hu, Qiaozhi Xu, Zhe Lian, Yanjun Yin, Min Zhi, Na Yang, Wentao Duan, and Lei Yu
Paper 724	PCLMix: Weakly Supervised Medical Image Segmentation via Pixel-Level Contrastive
_	Learning and Dynamic Mix Augmentation
14:33-14:42	Yu Lei, Haolun Luo, Lituan Wang, Zhenwei Zhang, and Lei Zhang
Paper 764	Unsupervised Domain Adaptation in Medical Image Segmentation via Fourier Feature
14:42-14:51	<b>Decoupling and Multi-Teacher Distillation,</b> Wei Hu, Qiaozhi Xu, Xuanhao Qi, Yanjun Yin,
17.72-17.31	Min Zhi, Zhe Lian, Na Yang, Wentao Duan, and Lei Yu
Paper 867	CAT-DG: A Cross-Attention-Based Domain Generalization Model for Medical Image
14:51-15:00	Segmentation, Wenhui Gao, Yilun Shi, Lei Yu, and Qiaozhi Xu
Paper 1038	Semi-supervised Abdominal Multi-organ Segmentation via Contour Aware Dual-task
15:00-15:09	Consistency, Yiqiu Tong, Weijie Wu, Lina Chen, and Hong Gao
Paper ID 799	BioU-Net: Diagnosis Network Based on Spectral Feature Enhancement for Myocardial
15:09-15:18	Infarction, Siyuan Li, Wenguang Zheng, Jiayang Li, and Yingyuan Xiao
Paper 1951	PESAM: Privacy-enhanced Segment Anything Model for Medical Image Segmentation
15:18-15:27	Jiuyun Cai, Ke Niu, Yijie Pan, Wenjuan Tai, and Jiacheng Han

#### Afternoon, August 7, Wednesday, Room B

#### **Image Processing**

Chair: Chua	nlei Zhang
Paper 2429	Full-range Fusion Network with Local-Global Attention for Change Detection in Remote
13:30-13:39	Sensing Images, Shuting Niu, Yingxue Zhang, and Zhanjun Si
Paper 2244	An Approach for Extracting Road Network from Remote Sensing Images
13:39-13:48	Zhihui Wang, Yu Wang, and Yuliang Ni
Paper 2303	Adaptive non-local means filter based on multi-kernel for complicated noise
13:48-13:57	Yiping Wang, Gaihua Wang, Qian long, Hongwei Qu and Bolun Zhu
Paper 2277	Lightweight human pose estimation model for industrial scenarios
13:57-14:06	Maoli Wang, Haitao Qiu, and Jiarui Wang
Paper 271	MOD-YOLO: improved YOLOv5 based on multi-softmax and omni-dimensional
14:06-14:15	dynamic convolution for multi-label bridge defect detection
14.00-14.13	Xinyi He, Ping Ma, Yiyang Chen, and Yuan Liu
Paper 1838	Insulator Defect Detection and Segmentation Algorithm Based on Deformation
14:15-14:24	Convolution, Hongxu Gao, Zhao Huang, Song Cheng, Jia Zhou, Yu Li, and Quan Wang
Paper 1906	A Unified Dual Attention-guided Reverse Distillation Framework for Anomaly Detection
14:24-14:33	Cuiping Zhu, Muhao Xu, Guang Feng, Mengjiao Zhang, and Sijie Niu
Paper 2172	A YOLOv7-Based Defect Detection Method for Metal Surfaces
14:33-14:42	Zhiwei Sun, Siyuan Feng, Kai Li, Yuliang Liu, and Yufeng Li
Paper 2063	Improved YOLOv7-tiny insulator defect detection based on drone images
14:42-14:51	Xuening Luo, Qulin Shen, Ming Gao, Xuebin Ni, Shuli Wang, Chuanlei Zhang, Ziyu Cao, and
14.42-14.31	Guangyong Qin
Paper 1852	MS-YOLOv5s: An Improved YOLOv5s for The Detection of Imperceptible Defects on
14:51-15:00	Steel Surfaces, Chenchen Wang, Mian Zhou, Yuan Liang, Weiwei Pan, and Zan Gao

#### Afternoon, August 7, Wednesday, Room C

#### **Neural Networks**

Chair: Jianzheng Liu	
Paper 987	PBIM: Paired Backdoor Injection Method for Change Detection
13:30-13:39	Rui Huang, Mengjia Hao, Zongyu Guo, and Yifan Zhang
Paper 582	A Hierarchical Multi-scale Cortical Learning Algorithm for Time Series Forecasting
13:57-14:06	Dejiao Niu, Jie Jiang, Tao Cai, Lei Li, and Xuewen Xia
Paper 1138	Pest-YOLO: A lightweight pest detection model based on multi-level feature fusion
14:06-14:15	Xiaoyue Zhu, Bing Jia, Baoqi Huang, Haodong Li, Xiaohao Liu, and Winston KG Seah
Paper 749	Augmented fuzzy min-max neural network driven to preprocessing techniques and space
14:15-14:24	search optimization algorithm, Mingjie Gao and Wei Huang
Danay 1940	A Graph Neural Network-based Multi-agent Joint Motion Prediction Method for Motion
Paper 1840 14:24-14:33	Trajectory Prediction
14:24-14:55	Hongxu Gao, Zhao Huang, Jia Zhou, Song Cheng, Quan Wang, and Yu Li
Paper 1144	SDE-Net: Skeleton Action Recognition Based on Spatio-temporal Dependence Enhanced
14:33-14:42	Networks, Qing Sun, Jiuzhen Liang, Zhou Xinwen, and Hao Liu
Paper 758	Temporal Sequential Wave Neural Network for Solving the Optimal Cognitive Subgraph

14:42-14:51	Query Problem, Jiaqian Bi, Zhilei Xu, and Qing Yu
Paper 804	Intrusion Detection System Based on ViTCycleGAN and Rules
14:51-15:00	Menghao Fang, Xia Li, Yuanyuan Wang, Qiuxuan Wang, Xinlei Sun, and Shuo Zhang
Paper 1280	Lightweight Coal Flow Foreign Object Detection Algorithm
15:00-15:09	Ru Nie, Xiaobing Shen, Zhengwei Li, Yanxia Jiang, Hongmei Liao, and Zhuhong You
Paper 2270	Efficient Neural Network Fine-Tuning via Layer Contribution Analysis
15:09-15:18	Zhizhuo Liu, Nanjian Zhou, Min Liu, Zhibang Liu, and Chaonong Xu

#### Afternoon, August 7, Wednesday, Room D

#### **Intelligent Computing in Computer Vision**

Chair: Zilong Wang		
Paper 170	YOLO-FLC: Lightweight Traffic Sign Detection Algorithm	
13:30-13:39	Lei Zhao, Dong Li, Jiandong Fang, Xiang Dong, and Zheyin Li	
Paper 810	DFT-3DLaneNet: Dual-frequency Domain Enhanced Transformer for 3D Lane Detection	
13:39-13:48	Kaijiang Li, Yuling Liu, Peisen Wang, Xiangqian Liu, Xichen Liu, Chunyi Guo, and Bing Zhou	
Paper 234	Spatial-Temporal Transformer Network for Continuous Action Recognition in Industrial	
13:48-13:57	Assembly, Jianfeng Huang, Xiang Liu, Huan Hu, Shanghua Tang, Chenyang Li, Shaoan Zhao,	
13:46-13:37	Yimin Lin, Kai Wang, Zhaoxiang Liu, and Shiguo Lian	
Paper 237	EVF-YOLO: A Lightweight Network for License Plate Detection under Severe Weather	
13:57-14:06	Conditions, Chen Zhang, Chuanlei Zhang, Shuli Wang, Yinglun Dong, Xinyu Guan, Haifeng	
13.37-14.00	Fan, Runjun Zhao, and Guoyi Xu	
Paper 386	Priority Intra-model Adaptation for Traffic Sign Detection and Recognition	
14:06-14:15	Zhendong Hu, Fanghao Zhang, and Zhigang Shao	
Paper 471	MineDet: A Real-Time Object Detection Framework Based Neural Architecture Search	
14:15-14:24	for Coal Mines, Yuelong Li, Wentao Wang, Weijun Cheng, and Gaofeng Nie	
Paper 537	Controlling Attention Map Better for Text-Guided Image Editing Diffusion Models	
14:24-14:33	Siqi Xu, Lijun Sun, Guanming Liu, and Zhihua Wei	
Paper 639	Spatial Group & Cross-channel Attention:Make Smaller Models More Effective, Focus	
14:33-14:42	on High-level Semantic Features	
14.55 14.42	Ze-chen Zheng, Chao Fan, MiaoWang, Cong-qian Wang, Xue-lei He, and Xiao-wei He	
Paper 664	YOLO-BS: A Better Object Detection Model for Real-time Driver Behavior Detection	
14:42-14:51	Yang Xi, Jinxin Guo, and Ming Ma	
Paper 756	Anomaly Behavior Detection in Crowd via Lightweight 3D Convolution	
14:51-15:00	Jinfeng Wang and Xiongshen Xie	
Paper 802	YOLO-PR: Multi Pose Object Detection Method for Underground Coal Mine	
15:00-15:09	Wei Chen, Huaxing Mu, Dufeng Chen, Jueting Liu, Tingting Xu, and Zehua Wang	
Paper 807	DSMENet: A Road Segmentation Network based on Dual-Branch Dynamic Snake	
15:09-15:18	Convolutional Encoding and Multi-modal Information Iterative Enhancement	
10.07 10.10	Zhiyang Li, Xuran Pan, Shuhao Yang, Xinqi Yang, and Kexing Xu	
Paper 2404	Multi-Layered Stixels Prompted by Semantic Information	
15:18-15:27	Hang Fu, Feng Cui, Jiangtao Peng, Xinyi Yang, and Qian Long	

Paper 2425	ETVKT: Enhanced Training Vector for Knowledge Tracing
15:27-15:36	Dong Liu, Lin tao Guo, Xu rui zhang, and Yong bo Li

#### Afternoon, August 7, Wednesday, Room E

#### **Natural Language Processing and Computational Linguistics**

#### Chair: Chengcai Fu

Paper 378	GTA: Graph Transformer Adapter,
13:30-13:39	Ke Chen, Xinyan He, Yong Zhong, and Cheng Peng
D 200	Label-Related Adaptive Graph Construction Based on Attention for Multi-Label Text
Paper 288	Classification
13:39-13:48	Xiwen Zhou, Xiaopeng Xie, Chenlong Zhao, Lei Yao, Zhaoxia Li, and Yong Zhang
Paper 1904	ICLFP-NMT: Neural Machine Translation for ICL Flexible Prompt
13:48-13:57	Nier Wu, Wenhong Wu, Yatu Ji, Yang Liu, Min Lu, and Na Liu
Paper 357	STAR: Syntax- and Topic-Aware Role Dialogue Summarization
13:57-14:06	Jiangyuan Shi, Fujun Zhang, Zhenjie Gao, Feilong Bao, Guanglai Gao, and Wenjun Zhang
Paper 2045	Multi-level Contrastive Learning for Keyphrase Generation
14:06-14:15	Yafu Li, Shinian Li, Heng Yu, and Wu Zhuang
Paper 2140	SFMD: A Semi-Supervised Framework for Pre-trained Language Models Fine-tuning
14:15-14:24	with Noisy Samples
14:13-14:24	Yiwen Yang, Pengfei Duan, Yongbing Li, Yifang Zhang, and Shengwu Xiong
Paper 907	A Template-Driven Framework for Chinese Medical Named Entity Recognition
14:24-14:33	Yilin Song, Fang Kong, and Shengjie Ji
Paper 1887	Eliciting Offensive Responses from Large Language Models: A Genetic Algorithm
14:33-14:42	Approach, Zheng Chen, Jiachen Zhu, and Anlong Chen
Paper 1770	Fine-grained Cross-modal Contrast Learning for Video-Text Retrieval
14:42-14:51	Hui Liu, Gang Lv, Yanhong Gu, and Fudong Nian
Paper 954	Monochrome Image Impulse Noise Removal Considering Line Structure
14:51-15:00	Liangyu Ruan, Weiran Yang, Wujun Wang, Wenjie Wang, and Yi Ru
Paper 2252	MatchingDPC: Drill Pipes Counting Based on Matching Key Pose Encoding
15:00-15:09	Guoyu Sheng, Cheng Yang, and Bo Yang
Danau 642	Automatic Reference-Free Fine-Grained Machine Translation Error Detection via
Paper 642	Named Entity Recognition and Back-Translation
15:09-15:18	Yiting Yan, Jiaxin Song, Biao Fu, Na Ye, and Xiaodong Shi

#### Afternoon, August 7, Wednesday, Room F

#### **Image Processing**

#### Chair: Yang Li

Paper 2112	Fed-UIQA: Federated Learning for Unsupervised Finger Vein Image Quality Assessment
13:30-13:39	Xingli Liu, Jian Guo, Hengyu Mu, Lejun Gong, and Chong Han
Paper 1199	Enhancing Landslide Segmentation with Guide Attention Mechanism and Fast Fourier
13:48-13:57	Transformer, Kaiyu Yan, Fei Shen, and Zongyi Li

Paper 1843	RSSRDiff: An Effective Diffusion Probability Model with Attention for Single Remote
13:57-14:06	Sensing Image Super-Resolution, Tian Wei, Hanyi Zhang, Jin Xu, Jing Zhao, and Fei Shen
Paper 1330	Feature Pyramid Full Granularity Attention Network for Object Detection in Remote
14:06-14:15	Sensing Imagery, Chang Liu, Xiao Qi, Hang Yin, Bowei Song, Ke Li, and Fei Shen
Paper 835	Text-to-Image Generation with Multiscale Semantic Context-Aware Generative
14:15-14:24	Adversarial Networks, Pei Dong, Lei Wu, Lei Meng, and Xiangxu Meng
D 2255	An Optimized Self-Representation Subspace Clustering Model Based on Adversarial
Paper 2355	Autoencoder, Deyan Sun, Dufeng Chen, Hai Liu, Wei Chen, Jueting Liu, Yuancan Yang, Zehua
14:24-14:33	Wang, and Pengcheng Zhu
D 1012	
Paper 1912	Enhanced Tiny Object Detection in Aerial Images
14:33-14:42	Tianyi Fu, Benyi Yang, Hongbin Dong, and Baosong Deng
Paper 2376	A Dual-branch Network with Supcon for Face Anti-Spoofing
14:42-14:51	Kanghua Hui, Youzhi Wang, Haohan Liu, Sihua Gao, and Wei Cao
Paper 1909	MA-YOLOv8 Algorithm for Mining Area Object Detection based on High-Resolution
14:51-15:00	Remote Sensing Images, Yufang Zhang, Xiaojun Su, and Ming Ma
Paper 2213	AGN: Adversarial Grafting Network for Few-Shot Visual Haze Classification
15:00-15:09	Mingzhao Xie, Huilin Chen, Dongqi Wang, and Dongming Chen
Paper 1073	Towards Highly Effective Moving Tiny Ball Tracking via Vision Transformer
15:09-15:18	Jizhe Yu, Yu Liu, Hongkui Wei, Kaiping Xu, Yifei Cao, and Jiangquan Li
Paper 2188	Fourier-FPN: Fourier Improves Multi-scale Feature Learning for Oriented Tiny Object
15:18-15:27	Detection, Yong Tang, Hongan Pan, Jun Guo, Fei Shen, Zhengzhou Zhu, and Honghui Jia

#### Afternoon, August 7, Wednesday, Room G

#### **Pattern Recognition** Chair: Minglong Cheng Effective and Efficient Cross-media Knowledge Transfer through Adapted Invertible Paper 2056 Intermediate Space Construction, Min Zheng, Yue Wang, Dianbo Zheng, Qinghe Ye, Weiwei 13:30-13:39 Liu, Cuncun Shi, Chunpeng Wu, and Fei Zhou Paper 953 **Context-Aware Enhanced Dereverberation Network** 13:48-13:57 Yi Jiang, Sixing Liu, and Qun Yang FasterEA-FML for EEG: Federated Meta-Learning with Faster Euclidean Space Data Paper 2331 Alignment, Minda Yao, Wei Chen, Tingting Xu, Chuanlei Zhang, Jueting Liu, Dufeng Chen, 13:57-14:06 and Zehua Wang A Relevant Prototype Domain Gradient Projection Continual Learning Method for Paper 895 **Cross-Subject P300 Brain-Computer Interfaces** 14:06-14:15 Zhicong Wu, Honghua Cai, Yuyan Ling, and Jiahui Pan Paper 1249 Image Processing Task Offloading in UAV-Assisted MEC System 14:15-14:24 Junling Shi, Chunyu Li, Liang Zhao, Na Lin, and Zhenguo Bi Paper 205 Trusted Secure Routing Schemes Based on Intelligent Computing: A Brief Review 14:24-14:33 Guoqing Jia, Changhui Sun, Weidong Fang, Wei Chen, Guannan Song, and Wuxiong Zhang Paper 2153 Seizure Types Classification based on Multi-Branch Hybrid Deep Learning Network 14:33-14:42 Qingwei Jia, Jin-Xing Liu, Junling Shang, Lingyun Dai, Yuxia Wang, Wenrong Hu, and Shasha

	Yuan
Paper 900	Double Attention-Based Deep Convolutional Neural Network for Seizure Detection using
14:42-14:51	EEG Signals, Lin Shi, Zexin Wang, Yuanwei Ma, Jianjun Chen, Jingzhou Xu, and Jun Qi
Paper 771	SeWi: A Framework Enhancing CSI-based Human Activity Recognition, Wei Zhang,
14:51-15:00	Jiayuan Li, Fei Ge, Jianyuan Hu, Zhenyang Dai, Xinyu Cao, Zhimin Yang, and Xiaowei Shuai
Paper 2081 15:00-15:09	Context-Sensitive Adapter: Contextual biasing for Personalized End-to-end Speech Recognition with Attention Fusion and Bias Filtering  Yineng Cai, Lixu Sun, Yongchao Li, Nurmemet Yolwas, and Wushouer Silamu
Paper 2104	Personalized Multimodal Federated Learning for Fingerprint and Finger Vein
15:09-15:18	Recognition, Hengyu Mu, Jian Guo, Xingli Liu, Chong Han, and Lejun Gong
Paper 934	Fast and De-noise Instance Selection Method for SVMs Training Based on Clustering and
15:18-15:27	Intuitionistic Fuzzy Number, Chao Wang and Xin Dong

#### Afternoon, August 7, Wednesday, Room A

#### **Medical Image Processing and Analysis**

Chair: Juan Lv	
Paper 2004 15:46-15:55	Joint semantic feature and optical flow learning for automatic echocardiography segmentation, Juan Lyu, Jinpeng Meng, Yu Zhang, Sai Ho Ling, and Lin Sun
Paper 681 15:55-16:04	BS2CL: Balanced Self-Supervised Contrastive Learning for Thyroid Cytology Whole Slide Image Multi-Classification, Wensi Duan, Juan Liu, Lang Wang, Yu Jin, Peng Jiang, Cheng Li, Dehua Cao, and Baochuan Pang
Paper 2036 16:04-16:13	Dr-SAM: U-shape Structure Segment Anything Model for Generalizable Medical Image Segmentation, Xiangzuo Huo, Shengwei Tian, Bingming Zhou, Long Yu, and Aolun Li
Paper 2008 16:22-16:31	FMUnet: Frequency feature enhancement Multi-level U-Net for Low-Dose CT Denoising with a real collected LDCT image dataset, Yu Zhang, Xinqi Yang, Guoliang Gong, Xianghong Meng, Xiaoliang Wang, and Zhongwei Zhang
Paper 825 16:31-16:40	Coformer: Collaborative Transformer for Medical Image Segmentation  Yufei Gao, Shichao Zhang, Dandan Zhang, Yucheng Shi, Guohua Zhao, and Lei Shi
Paper 938 16:40-16:49	BGMA-Net: A boundary-guided and multi-attention network for skin lesion segmentation, Cong Wu, Yao Li, Yuan Zhou, Haitao Gan, and Yi Han
Paper 792 16:49-16:58	Dual Consistency Regularization for Semi-supervised Medical Image Segmentation  Lin Wei, Runxuan Sha, Yucheng Shi, Qingxian Wang, Lei Shi, and Yufei Gao
Paper 2234 16:58-17:07	PEDNet: A Plain and Efficient Knowledge Distillation Network for Breast Tumor Ultrasound Image Classification, Tongtong Liu, Yiru Wang, Wenhang Wang, Mengyao Yang, Lan Zhang, Ge Zhang, and Hao Dang
Paper 2050 17:07-17:16	A classification method for diabetic retinopathy based on self-supervised learning Fei Long, Haoren Xiong, and Jun Sang
Paper 532 17:16-17:25	Privacy-Preserving Retrieval Scheme over Medical Images Based on Vision Transformer Ruizhong Du, Yifan Wang, Mingyue Li, and Tao Shang
Paper 1028 17:25-17:34	Hierarchical Cascaded Multi-Axis Window Self-Attention and Layer Feature Fusion for Brain Glioma Segmentation, YuYang Yuan, HongJie Yang, Lei Yu, and Qiaozhi Xu

Paper 559	SkinDiff: A novel data synthesis method based on Latent Diffusion Model for skin lesion
17:34-17:43	segmentation, Xin Jing, Shushuo Yang, Heyang Zhou, Gao Wang, and Keming Mao
Paper 2197	CUK-band: A CUDA-Based Multiple Genomic Sequence Alignment on GPU
17:43-17:52	Xianghua Kong, Cong Shen, and Jijun Tang

#### Afternoon, August 7, Wednesday, Room B

#### **Intelligent Fault Diagnosis**

#### Chair: Wei Yan

Chan, Wei Ian	
Paper 2426	DGAP-YOLO: A Crack Detection Method based on UAV Images and YOLO
15:46-15:55	Zhongbo Sun, Jian Liu, Pengfei Li, Yunyi Li, Jianrong Li, Di Sun, and Chuanlei Zhang
Paper 2423	Rust Detection Network for Transmission Line Based on UAV Inspection
15:55-16:04	Di Sun, Chen Zhang, Tingting Yang, Chao Ren, Kai Yan, Ming Gao, and Chuanlei Zhang
Paper 2268	Non-stridden Convolution and Bidirectional Cross-scale Features Fusion Network for
16:04-16:13	Steel Surface Defect Detection, Zhihua Xie and Liang Jin
Paper 959	STRCA: A Lightweight and Accurate Root Cause Analysis System Based on 5G
16:13-16:22	Signalling Trace, Jiang Fang, Jiadong Fu, Jiyan Sun, Liru Geng, Yinlong Liu, and Wei Ma
Paper 1612	PBAFS: Preference-Based Active Feature Selection for Fault Diagnosis and Prevention of
16:22-16:31	HVAC Systems, Mingjue Li, Qiucen Li, and Zhikui Chen
Paper 2089	SpikeFusionNet: A Hybrid Approach to Robotic Fault Diagnosis Using Spiking Neural
16:31-16:40	Dynamics, Ying Liu, Wei Zhang, Xiaoling Luo, Yun Zhang, and Hong Qu
Paper 2390	A Lightweight Physics-Informed Neural Network Model Based on Causal Discovery for
16:40-16:49	Remaining Useful Life Prediction, Min Li, Hongli Cui, Meiling Luo, and Ting Ke
Paper 2422	Interpretable Remaining Useful Life Prediction Based on Causal Feature Selection and
16:49-16:58	Deep Learning, Min Li, Meiling Luo, and Ting Ke
Paper 1363	ConvNeXt-BiGRU Rolling Bearing Fault Detection Based on Attention Mechanism
17:07-17:16	Yubo Zhao, Qi Liang, and Zijian Tian
Paper 584	IBAS-SVM Rolling Bearing Fault Diagnosis Method Based on Empirical Modal
17:16-17:25	Characteristics, Yishuo Bai, Zijian Tian, Wei Chen, Fusong Wang, Jing Guo, and Fangyuan He
Paper 887	An interpretable fault prediction method based on Machine Learning and Knowledge
17:25-17:34	Graphs, Zengyan Ji, Liang Zhang, and Wei Yan

#### Afternoon, August 7, Wednesday, Room C

#### **Pattern Recognition**

#### Chair: Siqi Wen

Paper 2051 15:46-15:55	Detection Method for Power Workers' Protection Rope Compliance Based on Improved YOLOv8, Xiaowei Li, Xuebin Ni, Ziyu Cao, Guangyong Qin, Gongcheng Shi, Pengfei Zhan, Chuanlei Zhang, and Yonggang Han
Paper 164	Saliency Detection Based on A Novel Color Channel Volume and Background Likelihood
15:55-16:04	Weight, Yuntao Liu, Ziwei Hu, and Tong Tong
Paper 252	Anomaly Detection of Transmission Line Large Metal Based on EGFPN-YOLO and
16:04-16:13	UAVs

	Gongcheng Shi, Jianrong Li, Lei Shi, Yubo Li, Yicong Li, Hui Ma, Di Sun, and Chuanlei Zhang
Paper 2361	Deep Double Incomplete Multi-View Multi-Label Classification via Graph-Constraint
16:22-16:31	Learning, Chaoran Li, Shuting Li, Huinian Li, Yinghao Ye, and Xiaohuan Lu
D. 2271	DYOLO: A Novel Object Detection Model for Multi-scene and Multi-object Based on An
Paper 2371	Improved D-Net Split Task Model Is Proposed
16:31-16:40	Hui Ma, Limin Bai, Yunyi Li, Gongcheng Shi, Ming Yang, Haifeng Fan, and ChuanLei Zhang
Paper 829	A Progressive Learning Approach for Sound Event Detection with Temporal and Spectral
16:40-16:49	Features Fusion, Yilin Zhong, Zhaoer Fang, Jie Wang, Bo Fan, and BangHuang Peng
Dam 2202	Enhancing UAV Navigation Accuracy Through EKF Magnetic Interference Estimation
Paper 2383	Algorithm
16:49-16:58	Juan Wang, Fangping Chen, Hainuo Chen, Xuebin Ni, Shengli Zhu, and Chen Zhang
Paper 832	DSDANet: Infrared Dim Small Target Detection via Attention Enhanced Feature Fusion
16:58-17:07	Network, Fei Chen, Hao Wang, Yuan Zhou, Tingting Ye, and Zunlin Fan
Paper 2388	AModular Sensor Fusion and Quality-Driven Sensor Selection Algorithm for UAV
17:07-17:16	Navigation, Hainuo Chen, Xuebin Ni, Ming Gao, Hui Ma, and Chen Zhang
Paper 1052	A Review of Cross-Age Facial Recognition Based on Discriminative Models, Wentao Duan,
17:16-17:25	Min Zhi, Ping Ping, Xiangwei Ge, Yuening Zhang, Xuanhao Qi, Wei Hu, and Zhe Lian
D 1412	Cross-Domain Few-Shot Fine-Grained Classification Based on Local-Global Semantic
Paper 1413	Consistency and Earth MoverDistance
17:25-17:34	Tong Chen, Jianming Liu, Haitao Wei, Xuhua Liu, and Chunyang Li
Damon 274	Depth-NeuS: Neural Implicit Surfaces Learning for Multi-View Reconstruction Based on
Paper 374	Depth Information Optimization
17:43-17:52	Siqi Wen, Hanqi Jiang, Cheng Zeng, Runnan Chen, Jidong Yuan, Shuai Liang, and Yinhe Han

#### Afternoon, August 7, Wednesday, Room D

#### **Intelligent Computing in Computer Vision**

Chair: Sujuan Liu			
Paper 948	OSFENet: Object Spatiotemporal Feature Enhanced Network for Surgical Phase		
15:46-15:55	Recognition, Pingjie You, Yong Zhang, Hengqi Hu, Yi Wang, and Bin Fang		
D 074	A Reinforced Passage Interactive Retrieval Framework Incorporating Implicit		
Paper 974	Knowledge for KB-VQA		
15:55-16:04	Hongyan Zheng, Tao Sun, Zhiping Zhang, Hao Liu, Gengchen Liu, Zhi Yang, and Xiaoyu Wang		
D 1600	EnvAwareLoc: Precision localization network based on the introduction of		
Paper 1680	environmental information, Xiaoxian Lian, Huanglin Zhang, Lingyu Chen, Jianghong Shi,		
16:04-16:13	Xiaoxiao Yang, Tiange Wang, and Jingyi Cai		
Paper 993	VQA-PDF: Purifying Debiased Features for Robust Visual Question Answering Task		
16:13-16:22	Yandong Bi, Huajie Jiang, Jing Liu, Mengting Liu, Yongli Hu, and Baocai Yin		
Paper 994	Referring Image Segmentation without Text Annotations		
16:22-16:31	Jing Liu, Huajie Jiang, Yandong Bi, Yongli Hu, and Baocai Yin		
Paper 1008	Mobile-SegFormer: A Lightweight Semantic Segmentation Network		
16:31-16:40	Zhenyuan Lin, Weikun Li, and Dahua Gao		

Paper 1012 16:40-16:49	Adaptive Swin Transformers for Few-shot Cross-domain Silent Face Liveness Detection  Ying Tang, Zhongyue Chen, Minchao Ye, Zhaojuan Zhang, Yaping Qi, Huijuan Lu, and Wanli  Huo
Paper 1566	Improving Dynamic 3D Gaussian Splatting from Monocular Videos with Object Motion
16:49-16:58	Information, Yixin Luo, Zhangjin Huang, and Xudong Huang
Paper 1216	Improved Channel-wise Semantic Alignment for Few-shot Object Detection
16:58-17:07	Min Xiang, Lifeng Qin, and Ruizi Han
Paper 1274	Adapting Depth Distribution for 3D Object Detection with a Two-Stage Training
17:07-17:16	Paradigm, Yixin Luo, Zhangjin Huang, and Zhongkui Bao
Paper 892	CHMF: Colorful Human reconstruction based on Mesh Features
17:16-17:25	Yan Wan, Jiahe Yu, and Li Yao
Paper 264	Dual-stream input Gabor convolution network for building change detection in remote
17:25-17:34	sensing images, Fuyun He, Xuqing Zeng, Rongqing Wu, Jieyuan Hu, and Qiuyi Bai
Paper 823	PAAM (Parameter-free Attentional Aggregation Model), XuanHao Qi, Min Zhi, Zeng Mi,
17:34-17:43	Wei Hu, Yanjun Yin, Yuening Zhang, Wentao Duan, and Zhe Lian

#### Afternoon, August 7, Wednesday, Room E

Vnovylo	daa D	<b>Discovery</b> and	Dota	Mining
IXIIOMIC	uge D	iscuvery and	Data	MILITIA

Chair: Yinxuan Huang		
Paper 2332	Deep Knowledge Tracking Integrating Programming Exercise Difficulty and Forgetting	
15:46-15:55	Factors, Dongqi Wang, Liping Zhang, Yubo Zhao, Yawen Zhang, Sheng Yan, and Min Hou	
Paper 325	Knowledge Completion Method Based on Relational Embedding with GNN	
15:55-16:04	Yu Chen, Zhuang Yin, Honghong Tan, and Xiaoli Lin	
Paper 2342	Attention-based hypergraph knowledge tracing	
16:04-16:13	Xilong Chang, Xiaojin Guo, Kun Liang, and Xiankun Zhang	
Paper 1071	Interaction Sequence Temporal Convolutional Based Knowledge Tracing	
16:13-16:22	Zhanxuan Chen, Zhengyang Wu, Qiuying Ye, and Yunxuan Lin	
D 2224	DocSecKG: A Systematic Approach for Building Knowledge Graph to Understand the	
Paper 2224	Relationship between Docker Image and Vulnerability	
16:22-16:31	Zhiling Zhu, Tieming Chen, Haobin Kong, Yunjin Zhong, and Qijie Song	
Paper 1014	Optimizing Knowledge Tracking and Learning Path Planning through Virtual	
16:31-16:40	Interactions, Hui Zhao, Chang Nie, Jun Liu, and Jun Sun	
Paper 381	LLM-driven External Knowledge Integration Network for Rumor Detection	
16:40-16:49	Ziang Hu, Lingwei Wei, Kun Li, Zongzhen Liu, Yuhang Wang, and Xiaodan Zhang	
Paper 1699	News Sequence Recommendation Model with Dual-View Category Enhancement	
16:49-16:58	Wenchao Li and Qiang Hu	
Paper 1004	Locating and Mitigating Gender Bias in Large Language Models	
16:58-17:07	Yuchen Cai, Ding Cao, Rongxi Guo, Yaqin Wen, Guiquan Liu, and Enhong Chen	
Paper 1388	An Advanced Deep Learning-based High-Resolution µCT Images Construction Method	
•	For Cement Hydration Microstructure	
17:07-17:16	Ruiqi Han, Liangliang Zhang, Pan Zhang, Lin Wang, Bo Yang, and Yuhang Xie	

Paper 827 17:16-17:25	An Experimental Research of Text-to-SQL for Heterogeneous Data in Large Language Models, Weiwei Yang, Xiaoliang Wang, Bosheng Chen, Yong Liu, Bing Wang, Hui Wang, Xiaoke Wang, Haitao Zhua, and Zhehao Wang		
Paper 914	Exploring Personalized Intents with Knowledge Graph for Federated Self-Supervised		
17:25-17:34	Recommendation, Lingyun Wang, Xiangjie Kong, Jianxin Li, Can Shu, and Guojiang Shen		
Paper 2211 17:34-17:43	Feature Interaction for Temporal Knowledge Graph extrapolation  Yinxuan Huang, Chenxi Zhu, Kai Chen, Xuechen Zhao, Liqun Gao, Kai Xiao, Yanyi Huang, and Bin Zhou		
Paper 351	An Inverse Retrieval Method via Query Generation for Xiaohongshu's Search Engine		
17:43-17:52	Yuantao Fan, Xinyu Tu, and Ruifan Li		

#### Afternoon, August 7, Wednesday, Room F

#### **Machine Learning**

Machine Learning		
Chair: Haife	ng Fan	
Paper 2283 15:46-15:55	Greedy Agent: Crafting Efficient Agents for Meta-learning from Learning Curves via Greedy Algorithm Selection, Jinyu He, Xiaowei Song, Xiaohan Yan, Nan Wang, Yuqi Miao, Zijian Jiang, Fei Chao, Yan Zhang, Shengchuan Zhang, and Rongrong Ji	
Paper 424 15:55-16:04	Cache side-channel attacks detection for AES encryption based on machine learning  Zhongkai Tong, Ziyuan Zhu, Zhangyu Sha, Yuxin Liu, and Dan Meng	
Paper 789	Multi-view Clustering based on Collaborative Reconstruction	
16:04-16:13	Kailing Zhou and Hong Jia	
Paper 2070 16:13-16:22	Energy-Efficient UAV-Enabled Wireless Power Transfer for Real-Time Charging Requirements  Junling Shi, Qingming Yang, Liang Zhao, Peiyu Cong, Yuanguo Bi, and Ammar Hawbani	
Paper 2085	Lowering Costs and Increasing Benefits through the Ensemble of LLMs and Machine	
16:22-16:31	Learning Models, Zhilin Liu, Qun Yang, and Jianjian Zou	
Paper 563	Collaborative Filtering Algorithm Based on Contrastive Learning and Filtering	
16:31-16:40	Components, Ziqi Shen, Wenjie Huang, Xin Luo, and Xiankun Zhang	
Paper 798	Music Recommendation Algorithm based on Dual-Stream Sequence Fusion	
16:40-16:49	Shanshan Yin, Xin Ruan, Jiayi Song, and Wenguang Zheng	
Paper 2098	Long-tailed Recognition Based on Self-attention Mechanism	
16:49-16:58	Zekai Feng, Hong Jia, and Mengke Li	
Paper 2193	Learning Reconstruction Models of Textured 3D Mesh Using StyleGAN2	
16:58-17:07	Fei Wang, Yangjie Cao, Zhenqiang Li, and Jie Li	
Paper 597 17:07-17:16	Using Graph Neural Network to Analyse and Detect Annotation Misuse in Java Code Jingbo Yang, Xin Ji, Wenjun Wu, Jian Ren, Kui Zhang, Wenya Zhang, Qingliang Wang, and Tingting Dong	
Paper 837 17:16-17:25	MetaPETR: an Effective Model for Handling Class-Imbalanced Data about Event Temporal Relations Xiaobin Zhang, Liangjun Zang, Qianwen Liu, Shuchong Wei, and Songlin Hu	
Paper 654	A Stacking Ensemble Deep Learning Model for Stock Price Forecasting	
17:25-17:34	Jianlong Hao and Chen Zhang	

Paper 311	Image Classification Using Graph Regularized Independent Constraint Low-rank
17:34-17:43	Representation, Linfeng Pan and Bo Li

#### Afternoon, August 7, Wednesday, Room G

#### **Machine Learning**

Machine Dearming		
Chair: Yar	ui Chen	
Paper 776	Online Continual Learning via Maximal Coding Rate Reduction	
15:46-15:55	Zhanyang Liu and Jinfeng Liu	
Paper 1054	OB-HPPO: An Option and Intrinsic Curiosity based Hierarchical Reinforcement	
•	Learning Approach for Real-time Strategy Games	
15:55-16:04	Ruilin Jiang, Yanlong Zhai, Yan Zheng, You Li, and Yanglin Liu	
Paper 2037	Fast Path Planning Algorithm for 3D Indoor Scene Roaming Based on Path Table	
16:04-16:13	Pei-Hua Song, Ying Li, and Jin-Yuan Jia	
Paper 1707	Exemplar-Free Deep Incremental Hashing for Efficient Image Retrieval	
16:13-16:22	Siyu Jia, Can Ma, Binbin Li, Zisen Qi, MengHan Guo, Yu Ding, and Haiping Wang	
Paper 853	MAIT: Multi-Agent Local Observation Interaction to Improve the Decision-Making	
16:22-16:31	Ability,Lingzhong Zhao, Fuliang Luo, Zhongyi Zhai, Junyan Qian, Hao Ding, and Changye Li	
Paper 1479	Multi-NPDQ: A Multi-Agent Approach Through Deep Reinforcement Learning for	
16:31-16:40	Operation Scheduling, Linwei Yao, Qichao Chen, Lianghao Gong, and Kuan Li	
Paper 655	Smart Trading: A Novel Reinforcement Learning Framework for Quantitative Trading in	
16:40-16:49	Noisy Markets, Zhenyi Shen, Xiahong Mao, Chao Wang, Dan Zhao, and Shuangxue Zhao	
Paper 2385	Self-supervised learning of PSMNet via generative adversarial networks	
16:49-16:58	Xinyi Yang, Haifeng Lai, Bin Zou, Hang Fu, and Qian Long	
Paper 2127	The Weakly Supervised Network of Hierarchical Attention Mechanism for Fine-grained	
16:58-17:07	Classification, Gaihua Wang, Jingwei Han, Qian long, Hongwei Qu, Jingxuan Yao and Bolun Zhu	
Paper 2040	HopMAE: Self-supervised Graph Masked Auto-encoders from a Hop Perspective	
17:07-17:10	Chenjunhao Shi, Jin Li, Jianzhi Zhuang, Xi Yao, Yisong Huang, and Yang-Geng Fu	
Paper 155	Short Ciphertext-size Privacy-Preserving Aggregation Against Malicious Aggregators	
17:16-17:25	Jianhong Zhang, Chuming Shi, and Jie Wei	

#### **Parallel Sessions for Workshops**

Chair: Yiying Zhang, 2:00pm - 6:00pm, August 6, Tuesday, Room J

ICIC 2024 The International Workshop on Industrial Intelligence and Security

14:00-14:30 New Energy Aggregation Control Technology and Practice, Zhu Liu

14:30-15:00	Spatial Intelligence In Low-Altitude Economy, Dehuai Li
15:00-15:30	Integration: Building Infinite Possibilities for AI, Kaiyuan Zhang
15:30-16:00	AI-enabled power industry application development, Yeshen He
16:30-17:00	Research And Exploration Of Power Balance Technology In New Power Systems, Qingsu He
17:00-17:30	The Application Of Artificial Intelligence And Big Data Technology In The Field Of Power Distribution And Utilization, Haidong Xu

#### Chair: Wei Chen, 8:20am - 6:00pm, August 7, Wednesday, Room K

#### ICIC 2024 The Fourth Workshop on Frontier of Mine Information Technology and Artificial Intelligence Research On Electromagnetic Wave Energy Safety Hazard In Explosive Environment Of 8:20-8:40 **Underground Coal Mine**, Zijian Tian 8:40-9:00 Research On Intelligent Mine Technology Based On 5G Industrial Internet, Fan Zhang Object Recognition Technology In Industrial Intelligent Inspection System 9:00-9:20 Chuanlei Zhang Research On Key Technologies For Precise Positioning Of Intelligent Inspection Robots 9:20-9:40 In Coal Mines, Yi Liu 9:40-10:00 Research On Condition Sensing And Prediction Of Coal Mine Equipment, Ming Li Research On Intelligent Fault Diagnosis Technology For Multi Rotor Drones Based On 10:00-10:20 Deep Learning, Fangping Chen Research On Multi-View Hierarchical Perception For Complex Underground Working 10:20-10:40 Faces In Coal Mines, Tingting Xu Trust Evaluation For Mobile Edge Nodes In The Industrial Internet Of Things, Minglong 10:40-11:00 Cheng Research On Unmanned Aerial Vehicles In Power System Transmission Line Inspection 11:00-11:20 Towards Collaborative Edge Intelligence: Blockchain-Based Data Valuation And 11:20-11:40 Scheduling For Improved Quality Of Service, Zehua Wang Federated Meta-Learning: Methodologies And Direction, Minda Yao 11:40-12:00 12:00-12:20 Research On The Key Technology And System Of Humanoid Robot, Fengying Ma 13:30-13:50 Intelligent Mine Security And Integrated Communication Technology, Liva Zhang

Intelligent Mine 5G Technology Situation And 6G Initial Discussion, Chenxin Li

13:50-14:10

14:10-14:30	Research On Key Technologies And Safety Strategies Of Coal Mine Inspection Robot
	System, Lin Chang
14:30-14:50	Large Language Model Based On Mining Dispatching Information, Jueting Liu
14.50.15.10	Intelligent Sensing And Control Technology Of Coal Mine External Cause Fire
14:50-15:10	Weiqiang Fan
	Research On Intelligent Perception Of Potential Safety Risk Of Personnel In
15:10-15:30	Multispectral Video Of Mines, Xiaoyu Li
	Intelligent Monitoring And Management Planning Of Energy Consumption In Mining
15:30-15:50	
	Areas Under Dual Carbon Background, Ni Guo
	Research On The Application Of 3D Reconstruction Technology Based On Point Cloud
15:50-16:10	Data In Mines, Qiusheng He
16:10-16:30	VR Remote On-Site Technology For Emergency Rescue System, Jianjun Hao
	Review Of Image Super-Resolution Algorithms With Complex Degradation Models
16:30-16:50	Wei Chen
	Research On Forwarding Strategy Of Wireless Sensor Network For Coal Mine
16:50-17:10	
	Emergency Rescue, Xiaoyue Liu

Chair: Zhanjun Si, 8:00am - 6:00pm, August 7, Tuesday, Room H

Workshop on Virtual Simulation Technology		
9:25-9:55	Research on Virtual Simulation Technology of Intelligent Systems Empowered by "Interaction-Driven-Learning" AI, Hongpeng Wang	
9:55-10:25	Virtual Simulation Experiment on "Differentiation and Treatment Based on 'Yang Deficiency and Cold Accumulation Syndrome' and Safe Use, Poisoning Diagnosis and Treatment of Prescriptions Containing Aconite", Juan Han	
10:35-11:05	Metal Artifact Correction Algorithm Based on Adaptive and Learning Weights, Huibin Chang	
11:05-11:35	Digital Course Construction Based on Naked-Eye 3D Technology	
13:50-14:10	Exploration of Digital Empowerment in Safety Education and Training in University Laboratories, Zhenyuan Gao	
14:30-14:50	Speeches by Entrepreneur Representatives	

Chair: Xiankun Zhang, 2:00pm - 6:00pm, August 6, Tuesday, Room I

ICIC2024 Workshop on the Construction of Characteristic Demonstrative
Software Colleges

14:20-14:50 Construction of Characteristic Demonstrative Software Colleges, Wei Lu

14:50-15:20	Analysis of the core elements of self-evaluation for engineering education professional certification (2024 edition), Li Zhang
15:20-15:50	Training Program for Software System Security Talents, Xibin Zhao
15:50-16:05	Report from Tianjin University
16:05-16:20	Report from Nankai University
16:20-16:35	Report from Tianjin Institute Of Software Engineering
16:35-16:50	Report from Tiangong University
16:50-17:05	Report from Tianjin Normal University
17:05-17:20	Report from Tianjin University of Technology and Education
17:20-17:35	Report from Tianjin Agricultural University
17:35-17:50	Report from Tianjin Sino-German University of Applied Sciences
17:50-18:05	Report from Tianjin University of Science and Technology, Xiangkun Zhang

#### Parallel Sessions for Poster Presentations

#### Afternoon, August 6, Tuesday, Room L

Image Processing	
Poster 23	A Comprehensive Survey of Style Transfer: Techniques, Models, and Applications
	Weiqi Wang, Weiting Wang, Ying, Feilong Xu Bao, Zhecong Xing, Zhiguo Zhang, Yuan Zhang
Doctor 221	Facial Expression Recognition Via Multi Semantic Diffusion Model on Imbalanced
Poster 321	Datasets, Ling Zhang, Junlan Dong
Donton 454	Skeleton-Based Actions Recognition with Significant Displacements
Poster 454	Chengming Liu,Jiahao Guan,Haibo Pang
D 4 500	Double Global and Local Information-based Image Inpainting
Poster 599	Shibin Wang, Wenjie Guo, Shiying Zhang, Xuening Guo, Jiayi Guo
	EMRA-proxy: Enhancing Multi-Class Region Semantic Segmentation in Remote Sensing
Poster 753	Images with Attention Proxy
	Yichun Yu, Yuqing Lan ,Zhihuan Xing, Xiaoyi Yang, Tingyue Tang,and Dan Yu
	Unsupervised Attention-Based Generative Adversarial Network for Remote Sensing
Poster 791	Image Fusion
	Quanli Wang, Qian Jiang, Yuting Feng, Shengfa Miao, Huangqimei Zheng, and Xin Jin

Poster 874	DSCANet: Dynamic Snake Convolution with Attention for Crack Segmentation  Wenbo Hu, Kuixuan Jiao, Kaijian Xia, Rui Yao
Poster 1466	Hierarchical Label Auto-Labeling and Relationship Constraints for Multi-Granularity Image Classification, Changwang Mei, Xindong You, Shangzhi Teng, Xueqiang LYU
Poster 2065	Enhancing Container Damage Detection with improved YOLOv5 Model: Integrating Swin Transformer, Jiahao Chen, Chen Dong, Yuxuan Wan
Poster 346	FastHDRNet: A new efficient method for SDR-to-HDR Translation  Tian Siyuan, Wang Hao, Rong Yiren, Wang Junhao, Dai Renjie and He Zhengxiao
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	Information Security
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Poster 1750	Threat Intelligence Quality Assessment Model Based on Contribution Calculation with ATT CK Framework, Guangxiang Dai Peng Wang Pengyi Wu
Poster 2078	Traffic Classification over Tor Netwrok Based on RGB Images  Depeng Chen, Xiao Wu, Jie Cui, and Hong Zhong
Poster 2307	STMDF: An Effective Approach for Malicious Domain Detection through Dynamic Spatial-Temporal Analysis, Hongwu Li, JianQiang Li, Xingyu Fu, DongZheng Jia, Yujia Zhu, Han Wang, Qingyun Liu
Poster 2240	Rumor Detection based on Social Immune Network  Mingrui Liu, Zexian Xie, Jielin Chen, Binyang Li
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Poster 728	Roberta-MHARC: Enhanced Telecom Fraud Detection with Multi-head Attention and Residual Connection, Jun Li, Cheng Zhang
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Poster 696	Hide Your Weaknesses from Attackers: A Defense Method against Black-Box Adversarial Text Attacks, Kun Li MinXuan Lv Wei Zhou
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	Intelligent Computing in Computer Vision
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Poster 761	Efficient Detection Model of Illegal Driving Behavior in Two-Wheeled Vehicles  Liuyu Zhu Zhiguang Wang Zhiqiang Liu Xiaoxue Li Shen Li		
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Poster 2401	Improving Stereo Matching Accuracy with Blind Super-Resolution Networks  Dinghao Zheng, Jiangtao Peng, Qiwei Xie, Qian Long		
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Poster 834	HiQuFlexAsync: Hierarchical Federated Learning with Quantization, Flexible Client Selection and Asynchronous Communication Ze Zhao, Yifan Liu, Donglin Pan, Yi Liu, Xiaofei Li, Zhenpeng Liu		
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Poster 2351	A dynamic graph structure optimization diagnosis
	Zhiyuan Hu, Yangde Lin, Jianrong Li and Juan Lyu
Poster 2356	A New Bibliometrics Analysis Method for Imbalanced Classes and New Classes in the
	Domain of Biomedical Literature
	Yangde Lin, Zhiyuan Hu, Xiaoran He, Sujuan Liu, Jianrong Li
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	Xin Song, Yanqing Song, Jianguo Chen, Long Chen



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