

第四届 人工智能与大数据

2021 4TH INTERNATIONAL CONFERENCE ON
ARTIFICIAL INTELLIGENCE AND BIG DATA



国 / 际 / 会 / 议

May 28-31, 2021

中国·成都
Chengdu, China

2021年5月28-31日



Co-Sponsored By 主办单位

Assisted By 协办单位

Advisory Board 指导单位





**2021 4th International Conference on
Artificial Intelligence and Big Data**
2021 年第四届人工智能与大数据国际会议

May 28-31, 2021 | Chengdu, China

2021 年 5 月 28-31 日 | 中国·成都




西藏飯店
TIBET HOTEL CHENGDU

Conference Venue | 会议地址

No.10, North Renmin Road, Chengdu, China
四川省成都市金牛区人民北路一段 10 号



About ICAIBD

2021 4th International Conference on Artificial Intelligence and Big Data (ICAIBD 2021) is sponsored by IEEE and Sichuan Province Computer Federation. As an IEEE conference started in 2018, the conference has grown with the help and technically support from many local and international universities year by year. In 2020, ICAIBD was awarded the Most Influential Academic Activity of the 1st Sichuan and Chongqing Science and Technology Academic Conference, which was fully recognized by the industry. ICAIBD focus on fostering international communication in the fields of Artificial Intelligence, and get the latest insights from every area of Artificial Intelligence and Big Data theory and practice. This conference has a rich schedule, which will include keynote speeches, invited speeches, poster presentations, oral presentations and online oral presentations, providing a relaxing and multicultural conference atmosphere for experts and scholars.

第四届人工智能与大数据国际会议(ICAIBD 2021)由 IEEE 和四川省计算机协会主办。作为始于 2018 年的 IEEE 会议，ICAIBD 在许多四川本地和国际大学的帮助和技术支持下逐年发展壮大。在 2020 年，ICAIBD 荣获了首届川渝科技学术大会年度最具影响力学术活动奖，得到了行业内的充分认可。ICAIBD 专注于人工智能领域的国际交流，获取人工智能和大数据理论与实践各个领域的最新见解。本次会议日程安排丰富，主题演讲、特邀演讲、海报演讲、口头演讲、在线演讲等，为专家学者提供了轻松、多元文化的会议氛围。

CO-SPONSORED BY 主办单位



ASSISTED BY 协办单位



HONORARY CERTIFICATE 荣誉证书



Agenda Overview 日程概览	3
Welcome 欢迎辞	4
Committee 委员会	5
Conference Agenda 大会日程	8
Venue 会议地点	15
Guideline 参会指南	16
Tips for Onsite Attendance 线下参会须知	16
Tips for Online Attendance 网络参会须知	17
Speakers 报告嘉宾	18
Onsite Parallel Sessions 线下平行报告	23
Session 1 – Artificial Intelligence and Mathematical Computing	23
Session 2 – Machine Vision and Image Processing	24
Session 3 – Advanced Information Theory and Neural Network Technology	25
Session 4 – Software Calculations and Algorithms	26
Online Parallel Sessions 线上平行报告	27
Session 5 – Machine Learning and Neural Networks	27
Session 6 – Big Data Science and Data Engineering	28
Session 7 – Computer Modeling and Mathematical Calculation	29
Session 8 – Intelligent Algorithm and Calculation	30
Session 9 – Image Analysis and Methods	31
Session 10 – Advanced Information Theory and Technology	32
Session 11 – Sentiment Analysis and Deep Learning	33
Session 12 – Computer Network and Computer Graphics	34
Session 13 – Artificial Intelligence and Information Management	36
Session 14 – Computer and Application Engineering	37
Onsite Poster Presentations 线下海报展示	40

Agenda Overview | 日程概览

* All schedules will process in Beijing local time (GMT+8)

* 日程时间安排均为北京时间。

Day 1- Wednesday, 26 May 5月26日 (星期三)		
10:00-14:15	Online Speakers' Test Session 测试环节-线上主旨/特邀报告嘉宾	ZOOM
14:30-16:50	Online Test Session 线上测试	ZOOM
Day 2- Friday, May 28 5月28日 (星期五)		
10:00-17:00	Onsite Sign-up 线下参会者签到	Hotel Lobby 西藏饭店大堂
Day 3- Saturday, May 29 5月29日 (星期六)		
09:00-09:30	Opening Remarks 开幕式	Himalaya Hall 喜马拉雅厅- 17F Zoom ID: 915 0117 9894
09:30-12:00	Keynote Speeches 主旨报告	Himalaya Hall 喜马拉雅厅- 17F Zoom ID: 915 0117 9894
13:30-14:40	Keynote & Invited Speeches 主旨/特邀报告	Tanggula Hall 唐古拉厅- 17F Zoom ID: 915 0117 9894
15:30-17:15	Onsite Parallel Session 1 线下平行报告 1	Tanggula Hall 唐古拉厅- 17F
	Onsite Parallel Session 2 线下平行报告 2	Namtso Room 纳木措厅- 2F
Day 4- Sunday, May 30 5月30日 (星期日)		
09:30-11:30	Onsite Parallel Session 3 线下平行报告 3	Yaamdruk Room 羊卓雍措厅- 2F
	Onsite Parallel Session 4 线下平行报告 4	Namtso Room 纳木措厅- 2F
13:30-18:30	Online Parallel Sessions 5-10 线上平行报告 5-10	ZOOM
Day 5- Monday, May 31 5月31日 (星期一)		
10:00-16:30	Online Parallel Sessions 11-14 线上平行报告 11-14	ZOOM
17:00-17:20	Online Closing & Award 线上闭幕式暨颁奖仪式	

Dear distinguished delegates,

On behalf of the conference Committee, we warmly welcome you to 2021 4th International Conference on Artificial Intelligence and Big Data (ICAIBD 2021). Due to the long-term impact of the COVID-19, in order to increase the communication chance with more scholars in this field and considering the flexibility of conference, this time, ICAIBD will support both online and onsite participation and we are going to witness the unbounded global spread of the disease and each of us is affected. We hope all of you can stay healthy.

During the conference, there will be a variety of speakers to introduce you the developments in the Artificial Intelligence and Big Data theory and practice. The evaluation of all the papers was performed based on the reports from anonymous reviewers, who are qualified in their field. As a result of their hard work, we are pleased to have accepted nearly 130 presentations from universities, institutes and research institutions. Through the following ways, we trust that you will still be able to share the developments and the technologies in these broad areas.

The presentations are divided into 1 poster session and 14 oral parallel sessions with topics including: Artificial Intelligence and Mathematical Computing; Machine Vision and Image Processing; Advanced Information Theory and Neural Network Technology; Software Calculations and Algorithms; Machine Learning and Neural Networks; Big Data Science and Data Engineering; Computer Modeling and Mathematical Calculation; Intelligent Algorithm and Calculation; Image analysis and methods; Advanced Information Theory and Technology; Sentiment Analysis and Deep Learning; Computer Network and Computer Graphics; Artificial Intelligence and Information Management; Computer and Application Engineering.

A word of special welcome is given to our keynote and invited speakers who are pleased to make contributions to our conference and share their new research ideas with us. They are Prof. Hai Jin, Huazhong University of Science and Technology, China; Prof. Yonghui Li, University of Sydney, Australia; Prof. Huajin Tang, ZheJiang University, China; Prof. Anu Gokhale, Illinois State University, USA; Prof. Fumihiko Ino, Osaka University, Japan.

Additionally, our special thanks go to our Honorary Chair, Conference Chairs, Organizing Chair, Program Committee Chairs, and Technical Committee for their excellent work in securing a substantial input of papers from all around the world and in encouraging participation.

With the strong support from all of you, ICAIBD conference is more distinctive. We wish that all guests can gain benefits from this conference and improve their academic performance. Thank each of you for your efforts to make this conference successful.

We wish all of you will have an unforgettable and prefect experience in the conference.

Yours sincerely,

Organizing Chair
Song Changyuan, Senior Engineer and Secretary-General
Sichuan Province Computer Federation, China

Honorary Chair 名誉主席



Dr. Zhang Jingzhong, Academician of Chinese Academy of Sciences, China
 张景中, 中国科学院院士, 四川省计算机学会名誉理事长, 中科院成都计算机应用研究名誉所长, 研究员, 博导

Conference Chairs 大会主席



Dr. Wang Xiaoyu, Executive director of Sichuan Province Computer Society, China
 王晓宇, 四川省计算机学会理事长、中国科学院成都计算机应用研究所所长、研究员



Prof. Zhou Jiliu, President of Chengdu University of Information Technology, China
 周激流, 成都信息工程大学书记、教授

Conference Co-chair 大会联合主席



Dr. Zhou Liping, Vice-President of Sichuan Association for Science and Technology, China
 周利平, 四川省科学技术协会专职副主席

Organizing Chair 组委会主席



Senior Engineer Song Changyuan, Secretary-General of Sichuan Province Computer Federation, China
 宋昌元, 四川省计算机学会秘书长、高级工程师

Program Committee Chairs 大会程序委员会主席



Prof. Zhang Yi, Sichuan University, China
 章毅, 四川大学计算机学院学术院长, 四川省计算机学会顾问



Prof. Qin Zhiguang, University of Electronic Science and Technology, China
 秦志光, 四川省计算机学会副理事长、电子科技大学教授、博导、信息与软件工程学院原院长



Prof. Yang Yan, Southwest Jiaotong University, China
 杨燕, 四川省计算机学会副理事长、西南交通大学信息科学与技术学院副院长、教授、博导



Prof. Wang Peng, Southwest Minzu University, China
 王鹏, 西南民族大学教授、博导

Program Committee Co-Chairs 大会程序委员会联合主席



Prof. Yonghui Li, IEEE Fellow, the University of Sydney, Australia
 Yonghui Li, 澳大利亚悉尼大学教授, IEEE 会士



Prof. Yao Liang, Indiana University-Purdue University Indianapolis, United States
 Yao Liang, 美国印第安纳大学-普渡大学印第安纳波利斯分校教授

Technical Committee 大会技术委员会

A

Afsana Begum, Daffodill Internationa University, Bangladesh
 Ali Ouni, École de Technologie Supérieure University of Quebec, Canada
 Ammar Hawbani, University of Science and Technology of China, China
 Anderson Carvalho, Institute of Technology Tralee, Ireland

B

Bing Liu, China Coal Technology & Engineering Group Shanghai Co., Ltd., China
 Björn Gottfried, University of Bremen, Germany
 Baha Ilnaini, Wenzhou-Kean University, China
 Boubakeur Boufama, Windsor University, Canada

C

Chao Mei, Kennesaw State University, USA
 Chen Ningjiang, Guangxi University, China
 Chi On Chan, Hong Kong Shue Yan University, Hong Kong
 Ching-Seh Wu, San Jose State University, United States
 Chuanmin Mi, Nanjing University of Aeronautics and Astronautics, China

D

Diab Abuaiadah, Waikato Institute of Technology, New Zealand

E

Ezzeddin M. Elarbi, University of Tripoli, Libya

F

Faguo Wu, Research Institute for Frontier Science, China

G

Gang Lei, Jiangxi Normal University, China
 Guohua Zhang, Tsinghua University, China

H

Haizan Mohamed Radzi, Universiti Teknologi Malaysia, Malaysia
 Hanqian Wu, SouthEast University, China
 Hossam Gaber, Ontario Tech University, Canada
 Huang Yongjing, Chengdu Textile College, China
 Hemn Barzan, Wenzhou-Kean University, China
 Hui Chen, Jiangxi University of Finance and Economics, China

Hui Shen, National University of Defence Technology, China

J

Jie Zhang, Southwest Jiaotong University, China
 Jin Li, Sichuan Police College, China
 Jing Ren, Ontario Tech University, Canada
 Jingjing Yin, Georgia Southern University, United States
 Junhee Seok, Korea University, South Korea
 Junling Wang, Jiangxi University of Science and Technology, China
 Jiaying Song, Tsinghua University, China
 Jikai Wang, USTC, China
 Jingjie Chen, Civil Aviation University of China, China
 Jinshui Huang, Southwestern University of Finance and Economics, China

K

Kazuteru Miyazaki, National Institution for Academic Degrees and University Evaluation, Japan
 Kertész Attila honlapja, University of Szeged, Hungary
 Khairulmizam b. Samsudin, UPM, Malaysia
 Kainan Li, Affiliated Hospital of Chengdu University, China

L

Li Qiang, Southwest University of Science and Technology, China
 Lu Zhongmei, GuiZhou Vocational Technology College of Electronics & Information, China

M

M. Ali Akcayol, Gazi University, Turkey
 Mahsa Mohaghegh, Auckland University of Technology, New Zealand
 Meng Hui, Chang'an University, China
 Ming Gao, Dongbei University of Finance and Economics, China
 Minghui Zhao, China Coal Research Institute Shanghai Ltd., China
 Mohamed Wiem Mkaouer, Rochester Institute of Technology, USA
 Mohd Saberi Mohamad, United Arab Emirates University, United Arab Emirates
 Md Altab Hossin, University of Science and Technology of China, China
 Mianzhe Han, Kanazawa University, Japan

N

Nan Qi, Nanjing University of Aeronautics and Astronautics, China
 Norma Alias, Universiti Teknologi Malaysia, Malaysia

O

Ong Pauline, Universiti Tun Hussein Onn Malaysia, Malaysia
 Otthein Herzog, Tongji University, China / Universitaet Bremen, Germany

P

Peng Chengbin, Chinese Academy of Sciences, China
 Peter Chunyu Yau, The University of Newcastle, Hong Kong

Q

Qiang Li, Southwest University of Science and Technology, China
 Qing Lei, University of International Business and Economics, China
 Qinhui Liu, Harbin Engineering University, China
 Quang-Vinh Dang, Industrial University of Ho Chi Minh city, Viet Nam

R

Runjie Xu, Nanjing University of Aeronautics and Astronautics, China

S

Salah Bouktif, UAE University, United Arab Emirates
 Shiping Chen, Sichuan Trade School, China
 Shuai Gao, Beijing University of Posts and Telecommunications, China

T

Ta-Cheng Chen, National Formosa University, Taiwan
 Tao Xu, Henan Key Laboratory of Big Data Analysis and Processing, China
 Theodoros A. Tsiftsis, Jinan University (Zhuhai Campus), China
 Tao Li, Southwest Minzu University, China

W

Wanbo Lu, Southwestern University of Finance and Economics, China

Wei Li, Beijing Institute of Space Electricity & Mechanics, China

Wei Xing, The Francis Crick Institute, UK

Wenhui Yi, Xi'an Jiaotong University, China

Wei Nai, Tongji Zhejiang College, China

X

Xi Yu, Chengdu University, China

Xiang Xie, Beijing Institute of Technology, China

Xiaofeng Wang, Xi'an University of Technology, China

Xiaolin Qin, Chinese Academy of Sciences (CAS) / University of CAS, China

Xiaoyu Lin, Luoyang Opto-Electro Technology Development Center, China

Xin Hu, Air Force Early Warning Academy, China

Xu Yang, BIT, China

Xueqing Zhao, Xian Polytechnic University, China

Xun Liu, Beijing Institute of Space Electricity & Mechanics, China

Xiaofei Zhu, Chongqing University of Technology, China

Xiaolan Yu, Jincheng College of Sichuan University, China

Y

Yang Li, Army Engineering University of PLA, China

Yang Li, Shandong University of Traditional Chinese Medicine, China

Yi Xu, University of Electronic Science and Technology of China, China

Yongjun Hu, Guangzhou University, China

Yongming Chen, Yancheng Institute of Technology, China

Yongqing Zhang, Chengdu University of Information Technology, China

Yajie Ma, Wuhan University of Science and Technology, China

Yan Zhang, Chongqing University of Posts and Telecommunications, China

Yue Li, Jincheng College of Sichuan University, China

Yuki Todo, Kanazawa University, Japan

Yuning Feng, Affiliated Hospital of Chengdu University, China

Z

Zelin Wang, Guizhou Survey and Design Co. LTD, China

Zhiyun Chen, East China Normal University, China

Zheng Wu, Nanjing University of Posts and Telecommunications, China

* All schedules will process in Beijing local time (GMT+8)

* 日程时间安排均为北京时间。

Day 1- Wednesday, May 26 | 5月26日 (星期三)

Online Speakers' Test Session | 测试环节-线上主旨/特邀报告嘉宾

Zoom ID: 915 0117 9894

<https://zoom.com.cn/j/91501179894>

Beijing Time	Presenter's Local Time	Presenters
10:00-10:15	12:00-12:15	Prof. Yonghui Li, University of Sydney, Australia
10:15-10:30	20:15-20:30	Prof. Anu Gokhale, Illinois State University, USA
10:30-10:45	11:30-11:45	Prof. Fumihiko Ino, Osaka University, Japan
10:45-11:00	10:45-11:00	S6-Dr. Md Altab Hossin, University of Science and Technology of China
11:00-11:15	11:00-11:15	S7- Dr. Tham Mau Luen, Univeristi Tunku Abdul Rahman, Malaysia
11:15-11:30	11:15-11:30	S8- Dr. Aznul Qalid Md Sabri, University Malaya, Malaysia
11:30-11:45	11:30-11:45	S11- Dr. Yongjun Hu, Guangzhou University, China
11:45-12:00	11:45-12:00	S14- Dr. Man-fung Lo, The Education University of Hong Kong
14:00-14:15	10:00-10:15	S13- Prof. Mohd Saberi Mohamad, United Arab Emirates University, UAE
14:15-14:30	09:15-09:30	S10-Prof. Abdelaziz Bouras, Qatar University, Qatar

Online Test Session | 线上测试

ZOOM A		ZOOM B		ZOOM C	
Zoom ID: 929 5001 3545		Zoom ID: 946 8991 9473		Zoom ID: 920 7013 4543	
Link: https://zoom.com.cn/j/92950013545		Link: https://zoom.com.cn/j/94689919473		Link: https://zoom.com.cn/j/92070134543	
Beijing Time	Presenters			ZOOM	
14:00-14:30	Session 5-Machine Learning and Neural Networks			ZOOM A	
	Session 6-Big Data Science and Data Engineering			ZOOM B	
	Session 7- Computer Modeling and Mathematical Calculation			ZOOM C	
15:00-15:30	Session 8- Intelligent Algorithm and Calculation			ZOOM A	
	Session 9-Image Analysis and Methods			ZOOM B	
	Session 10-Advanced Information Theory and Technology			ZOOM C	
16:00-16:30	Session 11- Sentiment Analysis and Deep Learning			ZOOM A	
	Session 12- Computer Network and Computer Graphics			ZOOM B	
	Session 13- Artificial Intelligence and Information Management			ZOOM C	
17:00-17:30	Session 14- Computer and Application Engineering			ZOOM A	

* All schedules will process in **Beijing local time (GMT+8)**
 * 日程时间安排均为**北京时间**。

Day 2- Friday, May 28 | 5月28日 (星期五)

Onsite Sign-up | 线下参会者签到

10:00-17:00

Hotel Lobby (Tibet Hotel) | 西藏饭店大堂



Give your **Paper ID** to the staff.
告知工作人员您的文章/听众编号



Sign your name in the attendance list and check meal information.
在签到表签字并反馈用餐信息



Check your **conference kit**, which includes conference bag, name tag, meal voucher, conference program, the receipt of the payment, the USB of paper collection.

确保您收集齐以下会议资料：会议包，代表证，餐券，会议日程，发票以及会议论文集 U 盘。



* All schedules will process in Beijing local time (GMT+8)

* 日程时间安排均为北京时间。

Day 3- Saturday, May 29 | 5月29日 (星期六)

Opening & Keynote Speeches 开幕式和主旨报告	
Onsite Venue-Himalaya Hall 喜马拉雅厅- 17F Live Streaming on Zoom ID: 915 0117 9894 Zoom Link: https://zoom.com.cn/j/91501179894	
Beijing Time	Presenters
Opening Remarks 开幕式 09:00-09:30	Dr. Zhang Jingzhong, Academician of Chinese Academy of Sciences, China 张景中博士, 中国科学院院士、四川省计算机学会名誉理事长 中科院成都计算机应用研究名誉所长、研究员、博导
	Prof. Wang Xiaoyu, Executive director of Sichuan Province Computer Society, China 王晓宇教授, 四川省计算机学会理事长、中国科学院成都计算机应用研究所所长、研究员
	Prof. Zhou Jiliu, President of Chengdu University of Information Technology, China 周激流教授, 成都信息工程大学书记
	Dr. Zhou Liping, Vice-President of Sichuan Association for Science and Technology, China 周利平博士, 四川省科学技术协会专职副主席
09:30-10:10	Keynote Speech I 主旨报告一 Prof. Hai Jin, IEEE Fellow, CCF Fellow, Huazhong University of Science and Technology, China 金海教授, 中国华中科技大学, IEEE 会士, CCF 会士 Speech Title: Towards the Practical Blockchain System: Challenges and Practices
10:10-10:50	Keynote Speech II (Online) 线上主旨报告二 Prof. Yonghui Li, IEEE Fellow, University of Sydney, Australia Yonghui Li 教授, 澳大利亚悉尼大学, IEEE 会士 Speech Title: 5G IoT Networks
10:50-11:20	 Coffee Break & Group Photo  Onsite Poster Presentations 线下海报展示 Paper ID: TB1-0009, TB1-0093, TB1-0110, TB1-1007
11:20-12:00	Keynote Speech III 主旨报告三 Prof. Huajin Tang, ZheJiang University, China 唐华锦教授, 中国浙江大学 Speech Title: Deep Learning in Spiking Neural Networks
12:00-13:30	 Break&Lunch @ Café 午餐@咖啡厅 ----2F

Keynote & Invited Speeches | 主旨/特邀报告

Onsite Venue-Tanggula Hall | 唐古拉厅- 17F
 Live Streaming on Zoom ID: 915 0117 9894
 Zoom Link: <https://zoom.com.cn/j/91501179894>

Beijing Time	Presenters
13:30-14:10	Keynote Speech IV (Online) 线上主旨报告四 Prof. Anu Gokhale, Illinois State University, USA Anu Gokhale 教授, 美国伊利诺伊州立大学
	Speech Title: Information Systems and Business Analytics
14:10-14:40	Invited Speech I(Online) 线上特邀报告一 Prof. Fumihiko Ino, Osaka University, Japan Fumihiko Ino 教授, 日本大阪大学
	Speech Title: A Directive-based Approach for Accelerating Large-scale Scientific Applications on the GPU
14:40-15:30	 Coffee Break

Onsite Parallel Sessions | 线下平行报告

Session 1 – Artificial Intelligence and Mathematical Computing 平行报告 1 — 人工智能及数学计算 Onsite Venue-Tanggula Hall 唐古拉厅- 17F		Session 2 – Machine Vision and Image Processing 平行报告 2 — 机器视觉与图像处理 Onsite Venue- Namtso Room 纳木措厅- 2F	
15:30-15:45	TB1-0122	15:30-15:45	TB1-0090
15:45-16:00	TB1-0063	15:45-16:00	TB1-0106
16:00-16:15	TB1-0086	16:00-16:15	TB1-0135
16:15-16:30	TB1-0121	16:15-16:30	TB1-0144
16:30-16:45	TB1-0129	16:30-16:45	TB1-0084
16:45-17:00	TB1-1005	16:45-17:00	TB1-0151
17:00-17:15	TB1-0033		

18:00-19:30 --- Dinner @ Café | 晚餐@咖啡厅 ----2F

* All schedules will process in Beijing local time (GMT+8)

* 日程时间安排均为北京时间。

Day 4- Sunday, May 30 | 5月30日 (星期日)

Onsite Parallel Sessions | 线下平行报告

Session 3 – Advanced Information Theory and Neural Network Technology 平行报告 3 – 先进信息理论与神经网络技术 Onsite Venue-Yaamdruk Room 羊卓雍措厅- 2F		Session 4 – Software Calculations and Algorithms 平行报告 4 – 软件计算与算法 Onsite Venue- Namtso Room 纳木措厅- 2F	
09:30-09:45	TB1-0066	09:30-09:45	TB1-0085
09:45-10:00	TB1-0127-A	09:45-10:00	TB1-0117
10:00-10:15	TB1-0025	10:00-10:15	TB1-0071
10:15-10:30	TB1-0014	10:15-10:30	TB1-0108
10:30-10:45	TB1-0073	10:30-10:45	TB1-0130
10:45-11:00	TB1-0015	10:45-11:00	TB1-0145
11:00-11:15	TB1-0128-A	11:00-11:15	TB1-0134
11:15-11:30	TB1-0159		

11:30-13:00--- ☕ Break&Lunch @ Café | 午餐@咖啡厅----2F

Online Parallel Sessions | 线上平行报告

ZOOM A Zoom ID: 929 5001 3545 Link: https://zoom.com.cn/j/92950013545		ZOOM B Zoom ID: 946 8991 9473 Link: https://zoom.com.cn/j/94689919473		ZOOM C Zoom ID: 920 7013 4543 Link: https://zoom.com.cn/j/92070134543	
ZOOM A-Session 5 Machine Learning and Neural Networks 机器学习与神经网络		ZOOM B-Session 6 Big Data Science and Data Engineering 大数据科学及数据工程		ZOOM C-Session 7 Computer Modeling and Mathematical Calculation 计算机建模与数学计算	
13:00-13:15	TB1-0051	13:00-13:15	TB1-0044	13:00-13:15	TB1-0017
13:15-13:30	TB1-0034	13:15-13:30	TB1-0096	13:15-13:30	TB1-0046
13:30-13:45	TB1-0089	13:30-13:45	TB1-0137	13:30-13:45	TB1-0049
13:45-14:00	TB1-0059	13:45-14:00	TB1-0022	13:45-14:00	TB1-0107
14:00-14:15	TB1-0124	14:00-14:15	TB1-0041	14:00-14:15	TB1-0152
14:15-14:30	TB1-0021	14:15-14:30	TB1-0043	14:15-14:30	TB1-0103
14:30-14:45	TB1-0064	14:30-14:45	TB1-0050	14:30-14:45	TB1-0126
14:45-15:00	TB1-0091	14:45-15:00	TB1-0140	14:45-15:00	TB1-0061
15:00-15:15	TB1-0112	15:00-15:15	TB1-0003	15:00-15:15	TB1-0146

ZOOM A-Session 8 Intelligent Algorithm and Calculation 智能算法及计算		ZOOM B-Session 9 Image Analysis and Methods 图像分析与方法		ZOOM C-Session 10 Advanced Information Theory and Technology 先进信息理论与技术	
16:00-16:15	TB1-0065	16:00-16:15	TB1-0030	16:00-16:15	TB1-0001
16:15-16:30	TB1-0072	16:15-16:30	TB1-0048	16:15-16:30	TB1-0031
16:30-16:45	TB1-0082	16:30-16:45	TB1-0132	16:30-16:45	TB1-0032
16:45-17:00	TB1-0099	16:45-17:00	TB1-0008	16:45-17:00	TB1-0062
17:00-17:15	TB1-0118	17:00-17:15	TB1-0076	17:00-17:15	TB1-0067
17:15-17:30	TB1-0113	17:15-17:30	TB1-0077	17:15-17:30	TB1-0078
17:30-17:45	TB1-0119	17:30-17:45	TB1-0143	17:30-17:45	TB1-0088
17:45-18:00	TB1-0160	17:45-18:00	TB1-0156	17:45-18:00	TB1-0094
18:00-18:15	TB1-1006	18:00-18:15	TB1-1004	18:00-18:15	TB1-0109
18:15-18:30	TB1-0092	18:15-18:30	TB1-0150	18:15-18:30	TB1-0079

* All schedules will process in Beijing local time (GMT+8)

* 日程时间安排均为北京时间。

Day 5-Monday, May 31 | 5月31日 (星期一)

Online Parallel Sessions 线上平行报告			
ZOOM A Zoom ID: 929 5001 3545 Link: https://zoom.com.cn/j/92950013545		ZOOM B Zoom ID: 946 8991 9473 Link: https://zoom.com.cn/j/94689919473	
ZOOM A-Session 11 Sentiment Analysis and Deep Learning 情感分析与深度学习		ZOOM B-Session 12 Computer Network and Computer Graphics 计算机网络与计算机图形学	
10:00-10:15	TB1-0053	10:00-10:15	TB1-0012
10:15-10:30	TB1-0068	10:15-10:30	TB1-0157
10:30-10:45	TB1-0075	10:30-10:45	TB1-0028
10:45-11:00	TB1-0141	10:45-11:00	TB1-0039
11:00-11:15	TB1-0153	11:00-11:15	TB1-0136
11:15-11:30	TB1-1002	11:15-11:30	TB1-0147
11:30-11:45	TB1-0018	11:30-11:45	TB1-0083
11:45-12:00	TB1-0069	11:45-12:00	TB1-0102
12:00-12:15	TB1-0115	12:00-12:15	TB1-0114
12:15-12:30	TB1-0026	12:15-12:30	TB1-0027
ZOOM A-Session 13 Artificial Intelligence and Information Management 人工智能及信息管理		ZOOM B-Session 14 Computer and Application Engineering 计算机与应用工程	
14:00-14:15	TB1-0037	14:00-14:15	TB1-0070
14:15-14:30	TB1-0120	14:15-14:30	TB1-0035
14:30-14:45	TB1-0149	14:30-14:45	TB1-0042
14:45-15:00	TB1-0131	14:45-15:00	TB1-0054
15:00-15:15	TB1-0148	15:00-15:15	TB1-0080
15:15-15:30	TB1-0138	15:15-15:30	TB1-0081
15:30-15:45	TB1-0111	15:30-15:45	TB1-0006
15:45-16:00	TB1-0038	15:45-16:00	TB1-0023
16:00-16:15	TB1-0045	16:00-16:15	TB1-0016
16:15-16:30	TB1-0125	16:15-16:30	TB1-0024
17:00-17:20 Closing & Award (Online) 闭幕式暨颁奖仪式 (线上)			
Zoom ID: 929 5001 3545 Link: https://zoom.com.cn/j/92950013545			




西藏飯店
TIBET HOTEL CHENGDU

No.10, North Renmin Road, Chengdu, China
四川省成都市金牛区人民北路一段 10 号

Website: www.tibethotelchengdu.cn

Contact: Mr. Tan Gang


Tel: +86-1398-2229-918


Fax: +86-28-83178898

Email: tatatangang@126.com


Getting Here


From Shuangliu Airport | 从机场出发

 By Metro (Around 50 mins): Line 10→Taipingyuan Station (transfer to Line 3)→ Chengdu Provincial Gymnasium Station (transfer to Line 1)→People's North Road Station (Exit B)→200m Walk
地铁（大约 50 分钟）：10 号线→太平园站（转 3 号线）→省体育馆（转 1 号线）→人民北路，B 口出，步行 200 米。


 By Taxi (Around 50 mins): Around RMB70 fare needed
出租车（大约 40 分钟）：费用大约 70 元

From Chengdu North Railway Station | 从火车北站出发


 By Metro: Line 1→People's North Road Station→200mWalk (Around 10 mins needed)
地铁：1 号线（开往科学城方向）→人民北站，B 口出，步行 200 米，用时 10 分钟左右

 By Taxi (Around 8 mins): Around RMB10 fare needed
出租车（大约 8 分钟）：费用大约 10 元

From Chengdu East Railway Station | 从成都东站出发

 By Metro: Line 2→Tianfu Square (transfer to Line 1) →People's North Road Station→200mWalk (Around 40 mins needed)

地铁：2 号线→天府广场（转 1 号线）→人民北路，B 口出，步行 200 米。用时 40 分钟左右。

 By Taxi (Around 30 mins): around RMB30 fare needed
出租车（大约 30 分钟）：费用大约 30 元

Tips for Onsite Attendance | 线下参会须知

Oral Presentation | 口头报告

- ∴ Regular oral presentation: 15 minutes (including Q&A).
- ∴ Get your presentation PPT or PDF files prepared. Presentations MUST be uploaded at the session room at least 15 minutes before the session starts.
- ∴ Laptop (with MS-Office & Adobe Reader), projector & screen, laser pointer will be provided in all oral session rooms.

Poster Presentation | 海报展示

- ∴ Posters (A1 size) are required to be condensed and attractive. The characters should be large enough so that they are visible for 1 meter apart.
- ∴ Please note that during the poster session, the author should stay by your poster to explain, discuss and answer questions.
- ∴ Please hand the poster to the staff when you sign in. They will help you hang it up before the poster session starts.

Important Notes | 注意事项

- ∴ **Please enter the meeting room at least 15 minutes before your session. Your punctual arrival and active involvement will be highly appreciated.**
请至少在会议开始前 15 分钟进入会议室，并积极参与会议各环节。
- ∴ **Please wear your name tag for all the conference activities. Lending it to others is not allowed. If you have any accompanying person, please do inform our staff in advance.**
会议期间请佩戴代表证进入会场。请勿将代表证转借给他人。如果您有陪同人员，请提前告知工作人员。
- ∴ **Please keep all your belongings (laptop and camera etc.) at any time. The conference organizer does not assume any responsibility for the loss of personal belongings.**
请随身携带贵重物品（笔记本电脑和相机等）。本会议不对个人物品的丢失承担任何责任。
- ∴ **Please show name tag and meal coupons when dining.**
就餐时请同时出示代表证与餐券。
- ∴ **For epidemic prevention and control, please wear a mask and enter the venue with the Chengdu "Tianfu Health" green code.**
为防控新冠疫情，请佩戴口罩并持成都“天府健康通”绿码进入会场。



Open WeChat and scan the "Tianfu Health" applet
使用微信扫描小程序码，即可获取天府健康通

Tips for Online Attendance | 网络参会须知

Before the conference | 网络会议前

∴ Time Zone | 时区

Beijing, China (GMT+8)

You're suggested to set up the time on your computer in advance.

∴ Platform: ZOOM | 线上参会平台: ZOOM

Download

1. <https://zoom.com.cn/download> (Chinese authors' option)
2. <https://zoom.us/download>

∴ Zoom Guideline | ZOOM 操作指南:

<http://icaibd.org/zoom/>

∴ Equipment Needed | 设备及环境需求

- A computer with internet connection and camera
- Headphones
- Stable internet connection
- A quiet place and Proper background

∴ Test Your Presentation | 网络测试

Date: Wednesday, May 26, 2021

Prior to the formal meeting, presenters shall join the test room to ensure everything is on the right track. Please check your test time on this program.

Every presenter or listener enter the ZOOM, please rename as **SESSION NUMBER+PAPER ID+YOUR NAME**.

For example:

Presenters: **S1+ TB1-001+Tom**

Listeners: **L001+Tom**

∴ If you have any question during the conference, you could add the Wechat, our staff will help to solve the questions. 如果您对会议有其他问题可以添加微信。



During the conference | 网络会议中

∴ Voice Control Rules | 会议声控规则

- The host will mute all participants while entering the meeting.
- Speakers can unmute microphone when it is turn for his or her presentation.
- Q&A goes after each speaker, the participant can raise questions.

∴ Oral Presentation | 报告注意事项

- Timing: a maximum of 15 minutes in total, including 2-3 minutes for Q&A. Please make sure your presentation is well timed.
- Please join the meeting room 10 minutes in advance.
- ICAIBD encourages all presenters to make live oral presentations. For technical problems such as network instability, we suggest you email a record video/slide to conference secretary as backup before/on **May 24, 2021**.

∴ Conference Recording | 会议录制声明

- The whole conference will be recorded. We appreciate you proper behavior and appearance.
- The recording will be used for conference program and paper publication requirements. The video recording will be destroyed after the conference and it cannot be distributed to or shared with anyone else, and it shall not be used for commercial nor illegal purpose. It will only be recorded by the staff and presenters have no rights to record.

Keynote Speech I | 主旨报告一

Prof. Hai Jin, IEEE Fellow, CCF Fellow, Huazhong University of Science and Technology, China

金海教授，中国华中科技大学，IEEE 会士，CCF 会士

Presentation Time: 09:30-10:10 | Saturday, May 29 (GMT+8)

Onsite Venue-Himalaya Hall | 喜马拉雅厅- 17F

Live Streaming on Zoom ID: 915 0117 9894

Zoom Link: <https://zoom.com.cn/j/91501179894>

Title: Towards the Practical Blockchain System: Challenges and Practices

Abstract: Blockchain is the fascinating distributed ledger technology, which holds out the promise of disintermediation, transparency, and openness. An increasing number of businesses, academics and even governments are starting to view blockchain systems as the cornerstone of trust the Web 3.0 era (next generation value Internet). This presentation will first trace the source and the current development status of blockchain systems in various application areas. Secondly, a roadmap of the major theoretical and practical challenging issues faced by these blockchain systems will be laid out. Finally, I will give a glimpse of harnessing the super-abundant opportunities of blockchain systems in the future landscape.

BIO: Hai Jin is a Fellow of IEEE, Fellow of CCF, and a life member of the ACM. He is a Cheung Kung Scholars Chair Professor of computer science and engineering at Huazhong University of Science and Technology (HUST) in China. Jin received his PhD in computer engineering from HUST in 1994. In 1996, he was awarded a German Academic Exchange Service fellowship to visit the Technical University of Chemnitz in Germany. Jin worked at The University of Hong Kong between 1998 and 2000, and as a visiting scholar at the University of Southern California between 1999 and 2000. He was awarded Excellent Youth Award from the National Science Foundation of China in 2001. Jin is the chief scientist of National 973 Basic Research Program Project of Virtualization Technology of Computing System, and Cloud Security.

His research interests include computer architecture, virtualization technology, cluster computing and cloud computing, peer-to-peer computing, network storage, and network security. He has co-authored more than 20 books and published over 900 research papers.



Keynote Speech II (Online) | 线上主旨报告二

Prof. Yonghui Li, IEEE Fellow, University of Sydney, Australia
Yonghui Li 教授, 澳大利亚悉尼大学, IEEE 会士

Presentation Time: 10:10-10:50 | Saturday, May 29 (GMT+8)
Presenter Local Time: 12:10-12:50 | Saturday, May 29 (GMT+10)
Live Streaming on Zoom ID: 915 0117 9894
Zoom Link: <https://zoom.com.cn/j/91501179894>

Title: 5G IoT Networks

Abstract: Connected smart objects, platforms and environments have been identified as the next big technology development, enabling significant society changes and economic growth. The entire physical world will be connected to the Internet, referred to as Internet of Things (IoT). The intelligent IoT network for automatic interaction and processing between objects and environments will become an inherent part of areas such as electricity, transportation, industrial control, utilities management, healthcare, water resources management and mining. Wireless networks are one of the key enabling technologies of the IoT. They are likely to be universally used for last mile connectivity due to their flexibility, scalability and cost effectiveness. The attributes and traffic models of IoT networks are essentially different from those of conventional communication systems, which are designed to transmit voice, data and multimedia. IoT access networks face many unique challenges that cannot be addressed by existing network protocols; these include support for a truly massive number of devices, the transmission of huge volumes of data burst in large-scale networks over limited bandwidth, and the ability to accommodate diverse traffic patterns and quality of service (QoS) requirements. Some IoT applications have much stringent latency and reliability requirements which cannot be accommodated by existing wireless networks. Addressing these challenges requires the development of new wireless access technologies, underlying network protocols, signal processing techniques and security protocols. In this talk, I will present the IoT network development, architecture, key challenges, requirements, potential solutions and recent research progress in this area, particularly in 5G.

BIO: Yonghui Li is a Professor and Director of Wireless Engineering Laboratory, in School of Electrical and Information Engineering, the University of Sydney. He is the recipient of the prestigious Australian Research Council (ARC) Queen Elizabeth II Fellowship in 2008 and ARC Future Fellowship in 2012. His current research interests are in the area of wireless communications, Internet of Things, Wireless networks, 5G and wireless AI. He participated in \$500million Australian national Smart Grid Smart City project, the world first large-scale demonstration project. He has published more than 200 papers in IEEE journals and conferences. Several of his journal papers have been included in ESI highly cited papers. According to google scholar, his research works have been cited more than 7000 times. Now he is an editor for IEEE Transactions on Communications and IEEE Transactions on Vehicular Technology. He also served as a guest editor for several special issues of IEEE journals, such as IEEE JSAC special issue on Millimeter Wave Communications, IEEE Communications Magazine on Wireless AI, IEEE Access. He received the best paper awards from IEEE International Conference on Communications (ICC) 2014, IEEE PIMRC 2017 and IEEE Wireless Days Conferences (WD) 2014.



Keynote Speech III | 主旨报告三

Prof. Huajin Tang, ZheJiang University, China
唐华锦教授，中国浙江大学

Presentation Time: 11:20-12:00 | Saturday, May 29 (GMT+8)

Onsite Venue-Himalaya Hall | 喜马拉雅厅 - 17F

Live Streaming on Zoom ID: 915 0117 9894

Zoom Link: <https://zoom.com.cn/j/91501179894>

Title: Deep Learning in Spiking Neural Networks

Abstract: In recent years neuromorphic computing has become an important methodology to emulate brain style intelligence. There has been rapid progress in computational theory, learning algorithms, signal processing and circuit design and implementation. By using neural spikes as signals and using spike timing based learning algorithms, neuromorphic computational models and hardware have achieved promising real-time learning performance. This talk will start from introducing the computational principles and architecture found in neural systems, and present the recent deep learning methods in spiking neural networks.

BIO: Huajin Tang received the B.Eng. degree from Zhejiang University, China in 1998, received the M.Eng. degree from Shanghai Jiao Tong University, China in 2001, and received the Ph.D. degree from the National University of Singapore, in 2005. He was an R&D engineer with STMicroelectronics, Singapore from 2004 to 2006. From 2006 to 2008, he was a Post-Doctoral Fellow with the Queensland Brain Institute, University of Queensland, Australia. He was Head of the Robotic Cognition Lab at Institute for Infocomm Research, Singapore from 2008 to 2015. Since 2014 he is a professor with Sichuan University. He is currently a professor with Zhejiang University, China. His research interests include neuromorphic computing, neuromorphic hardware and cognitive systems, robotic cognition, etc. His research work on Brain GPS has been reported by MIT Technology Review in 2015. He received 2011 Role Model Award of Institute for Infocomm Research Singapore, 2016 IEEE Trans. on Neural Networks and Learning Systems Outstanding Paper Award, 2019 IEEE Computational Intelligence Magazine Outstanding Paper Award. He has served as an Associate Editor of IEEE Trans. on Neural Networks and Learning Systems, IEEE Trans. on Cognitive and Developmental Systems and Frontiers in Neuromorphic Engineering, and Neural Networks (2020-). He was the Program Chair or General Chair for IEEE CIS-RAM (2015, 2017), ISNN 2019 and IEEE Symposium on Neuromorphic Cognitive Computing. From 2019 he is elected as a Board-of-Governor member of International Neural Network Society (INNS).



Keynote Speech IV (Online) | 线上主旨报告四

Prof. Anu Gokhale, Illinois State University, USA
Anu Gokhale 教授, 美国伊利诺伊州立大学

Presentation Time: 13:30-14:10 | Saturday, May 29 (GMT+8)

Presenter Local Time: 23:30-00:10 | Friday, May 28 (GMT-6)

Live Streaming on Zoom ID: 915 0117 9894

Zoom Link: <https://zoom.com.cn/j/91501179894>

Title: Information Systems and Business Analytics

Abstract: Information systems combined with latest developments in data analytics strategies have created unprecedented opportunities for enhancing competitive advantage. Enterprises are expected to increase spending on information systems geared to utilize data for business intelligence purposes. Databases include both structured and unstructured information characterized by the five Vs – volume, velocity, variety, veracity, and value. There exists tremendous potential to glean key insights for business advantage from the vast data that is available today and new data that is being constantly generated. Algorithms used in analyzing big data vary significantly based on the problem of study and its goals and objectives. The talk will address the issues and processes associated with data analytics applied to business information systems, applicable algorithms to enhance functionality and predictive analytics, and discuss how data-driven decisions support product/service innovation and improved operational success.

BIO: Dr. Anu A. Gokhale is a Distinguished Professor and Coordinator of the Computer Systems Technology program at Illinois State University (ISU). Gokhale was named Fulbright Distinguished Chair in STEM+C at the University of Pernambuco, Brazil, 2016-17; was a Faculty Fellow in Israel and Fulbright Specialist in Cybersecurity at Gujarat Technological University, India in summer 2017; and a Visiting Professor in College of Business at Shandong University in Jinan, China during spring 2017 where she focused on data analytics and e-commerce. The current NSF funded project is in Computing Education for the 21st Century. Originally from India, she has a master's in physics–electronics from the College of William & Mary, and a doctorate from Iowa State University. Dr. Gokhale authored a second edition of her book Introduction to Telecommunications, which has an international edition in Chinese. She continues to be an invited keynote speaker at various conferences, latest ones include: 2020 International Conference on Information and Computer Technologies, San Jose, USA; 2019 International Conference on Computer Science and Artificial Intelligence, Beijing, China; 2018 International Conference on Frontiers of Educational Technologies, Moscow, Russia; 2017 International Conference on Knowledge Engineering and Applications, London, UK; 2016 International Conference on Communication and Information Systems, Bangkok, Thailand; and 2015 International Conference on Information Technology, Amman, Jordan. As an active volunteer in IEEE, she has served as R4 Educational Activities Chair, Women in Engineering Coordinator, Chair of International Electro/Information Technology 2010 Conference, and MGA representative to the Educational Activities Board. She was honored with the IEEE Third Millennium Medal and 2019 Region 4 Outstanding Professional Award.



Invited Speech I(Online) | 线上特邀报告一

Prof. Fumihiko Ino, Osaka University, Japan
Fumihiko Ino 教授, 日本大阪大学

Presentation Time: 14:10-14:40 | Saturday, May 29 (GMT+8)

Presenter Local Time: 15:10-15:40 | Saturday, May 29 (GMT+9)

Live Streaming on Zoom ID: 915 0117 9894

Zoom Link: <https://zoom.com.cn/j/91501179894>

Title: A Directive-based Approach for Accelerating Large-scale Scientific Applications on the GPU

Abstract: In this talk, we will present a directive-based programming framework for accelerating large-scale scientific applications on the graphics processing unit (GPU). Our framework, named PACC, is an extension of OpenACC directives, which are useful for generating out-of-core GPU code from sequential CPU code. Our extension further facilitates code development by automatically generating complicated code required for software pipelining, data decomposition, and temporal blocking. Out-of-core performance results will be presented for discussion.

BIO: Fumihiko Ino received the B.E., M.E., and Ph.D. degrees in information and computer sciences from Osaka University, Osaka, Japan, in 1998, 2000, and 2004, respectively. He is currently an Professor in the Graduate School of Information Science and Technology at Osaka University. His research interests include parallel and distributed systems, software development tools, and performance evaluation.

Session 1 – Artificial Intelligence and Mathematical Computing
 平行报告 1 — 人工智能及数学计算

Time: Saturday, May 29 | 5月29日 (星期六)
 Onsite Venue-Tanggula Hall | 唐古拉厅 - 17F

Session Chair: Dr. Xiaolin Qin

Chengdu Institute of Computer Applications, Chinese Academy of Sciences, China

15:30-15:45	TB1-0122	Research on the Impact of Digital Interactive Media on the Stock Market Based on Big Data Text Jinshui Huang , Jujun Qian and Yangqing Liu Southwestern University of Finance and Economics, China
15:45-16:00	TB1-0063	Static Analysis of Source Code Vulnerability Using Machine Learning Techniques: A Survey Jingjing Wang , Minhuan Huang, Yuanping Nie and Jin Li National Key Laboratory of Science and Technology on Information System Security, China
16:00-16:15	TB1-0086	Incorporating Pre-trained Model into Neural Machine Translation Tailai An , Jiaying Song and Weidong Liu Tsinghua university, China
16:15-16:30	TB1-0121	Self-Adaptive Word Segmentation Model in Military Domain Based on Conditional Random Field Kexiang Guo , Hengjun Wang, Zhixu Bai and Yejie Xue Zhengzhou Information Science and Technology Institute, China
16:30-16:45	TB1-0129	A Novel Large Neighborhood Search for solving Green Vehicle Routing Problem Xiaohui Li, Peifan Li , Yi Zhao, Yuan Dong and Ping Wang Chang'an University, China
16:45-17:00	TB1-1005	Tracing Asian Giant Hornet: From a Data-Driven Perspective Yuanyuan Deng , Linqing Zeng, Qi Fu and Haoxuan Li Sichuan University, China
17:00-17:15	TB1-0033	Research and Exploration of Land Use in Core Area of Urban Central Rail Transit Station Based on AI Technology Yuan He , Hong Yuan, Qiang Yao and Zelin Wang Southwest Jiaotong University; Chongqing College of Architecture and Technology, China

18:00-19:30 - Dinner @ Café | 晚餐@咖啡厅-2F

Session 2 – Machine Vision and Image Processing
 平行报告 2 — 机器视觉与图像处理

Time: Saturday, May 29 | 5月29日 (星期六)
 Onsite Venue- Namtso Room | 纳木措厅- 2F

Session Chair: Dr. Yi Chen, University of Toyama, Japan

15:30-15:45	TB1-0090	Channel Attention Residual Network for Diagnosing Pneumonia Zhaoxia Guo , Jianjun Zhang, Yiming Zuo, Peishun Liu, Ruichun Tang and Xiaoxia Li Ocean University of China, China
15:45-16:00	TB1-0106	Multi-classification of fNIRS Signals in Four body parts Motor Imagery Tasks Measured From Motor Cortex Yuan Li , Hui Shen, Yang Yu and Dewen Hu National University of Defence Technology, China
16:00-16:15	TB1-0135	Fast Welding Defect Inspection On Digital Radiography Images Using Saliency Detection Yi Zhao, Pu Zhao , XiaoHui Li and JinPing Zhai Chang'an University, China
16:15-16:30	TB1-0144	Research on Detection and Identification Technology of Intelligent Devices in Cyberspace: A Survey Le Yao , Honglin Zhuang, Zhechao Lin, Jiaxiang Gu, Fang Wang and Qinbo Chen Academy of Military Sciences PLA China, China
16:30-16:45	TB1-0084	New Mechanism of Visual Motion Direction Detection based on McCulloch-Pitts Neuron Model Yi Chen , Zheng Tang and Hiroyoshi Todo University of Toyama, Japan
16:45-17:00	TB1-0151	Medical Records Classification Model Based on Textimage Dual-Mode Fusion Yang Chen , Xinyue Zhang and Tao Li Southwest Minzu University, China

18:00-19:30 - Dinner @ Café | 晚餐 @ 咖啡厅-2F

Session 3 – Advanced Information Theory and Neural Network Technology
平行报告 3 — 先进信息理论与神经网络技术

Time: Sunday, May 30 | 5 月 30 日 (星期日)
Onsite Venue-Yaamdruk Room | 羊卓雍措厅- 2F

Session Chair: Dr. Bruno Abrahao, New York University Shanghai, China

09:30-09:45	TB1-0066	Research on Interval Estimation of Trip Fuel Consumption based on Irregularly Distributed Samples Guodong Liang , Jingjie Chen and Jiaxue Liu Civil Aviation University of China, China
09:45-10:00	TB1-0127-A	3-D Feature Based Online Multimedia Traffic Classification from Quality of Service Perspective Zheng Wu and Yuning Dong Nanjing University of Posts and Telecommunications, China
10:00-10:15	TB1-0025	Multi Resolution Prediction Model Based on Wavelet Analysis and Neural Network Zhang Chengzhao and Heping Pan Chengdu Polytechnic, China
10:15-10:30	TB1-0014	Exponential Synchronization of Switched Inertial Reaction-Diffusion Neural Networks With Time Varying Delays Via Intermittent Control Jiefei Yan , Meng Hui, Jiahuang Zhang, Chen Wei and Ning Yao Chang'an University, China
10:30-10:45	TB1-0073	Predicting Trend of High Frequency CSI 300 Index: Based on Empirical Mode Decomposition and BP Neural Network Guangyan Gan, Xueyu Zhou and Haoxuan Li Sichuan University, China
10:45-11:00	TB1-0015	Finite-time projective synchronization of stochastic complex-valued neural networks with time varying delays Jiahuang Zhang , Meng Hui, Chen Wei, Jiefei Yan and Ning Yao Chang'an University, China
11:00-11:15	TB1-0128-A	Cloud Detection Using Full Convolutional Neural Network based on Attention Mechanism for Infrared Remote Sensing Images Liyuan Li Shanghai Institute of Technical Physics of the Chinese Academy of Sciences, China
11:15-11:30	TB1-0159	Semantic Analysis on Product Review Headlines Based on Review Association Mechanism and Convolutional Neural Network Yanghao Xiao , Xueyu Zhou and Haoxuan Li Sichuan University, China

11:30-13:00 - Break&Lunch @ Café | 午餐@咖啡厅-2F

Session 4 – Software Calculations and Algorithms
 平行报告 4 — 软件计算与算法

Time: Sunday, May 30 | 5 月 30 日 (星期日)
 Onsite Venue- Namtso Room | 纳木措厅- 2F

Session Chair: Prof. Run-Hua Shi, North China Electronic Power University, China

09:30-09:45	TB1-0085	Reachability Analysis of Linear Systems with Rational Eigenvalues Xinyu Ge and Shiping Chen University of Chinese Academy of Sciences, China
09:45-10:00	TB1-0117	Recursive Least Squares Policy Control with Echo State Network Chunyuan Zhang, Chao Liu, Qi Song and Jie Zhao Hainan University, China
10:00-10:15	TB1-0071	A Novel Microblog Sentiment Classification Method Based on Top-k Pooling Binyan Zhang , Xiaofei Zhu, Xianying Huang and Wanping Liu Chongqing University of Technology, China
10:15-10:30	TB1-0108	An Overview of Landslide Detection: Deep Learning and Machine Learning Approaches Hong Zhang , Mingzhe Liu, Tao Wang, Xin Jiang, Bingqi Liu and Pengyu Dai Chengdu University of Technology, China
10:30-10:45	TB1-0130	Improved Grey Wolf Optimization Algorithm for Solving Cloud Manufacturing Scheduling Problem With Limit Logistics Resource Xiaohui Li, Xueru Wang , Yi Zhao, Yuan Dong and Ping Wang Chang'an University, China
10:45-11:00	TB1-0145	An Adaptive Clustering Algorithm Based on Circular Units Fang Wang , Yongqiang Xie, Zihui Hu, Kai Zhang and Yunchao Zhang Academy of Military Sciences, Institute of Systems Engineering, China
11:00-11:15	TB1-0134	A Fast-mining Method for Target Behavior Pattern Based on Trajectory Data Qiaowen Jiang , Yu Liu, Shun Sun and Daning Tan Naval Aviation University, China

11:30-13:00 - Break&Lunch @ Café | 午餐@咖啡厅-2F

Session 5 – Machine Learning and Neural Networks
 平行报告 5 — 机器学习与神经网络

Time: Sunday, May 30 | 5 月 30 日 (星期日)

Zoom ID: 929 5001 3545

Link: <https://zoom.com.cn/j/92950013545>

Session Chair: Assoc. Prof. Wenhui Yi, Xi'an Jiaotong University, China

13:00-13:15	TB1-0051	Real Time Face Mask Detection System using Transfer Learning with Machine Learning Method in the Era of Covid-19 Pandemic Sohaib Asif , Wenhui Yi, Tao Yi, Jinhai Si and Kamran Amjad Central South University, China
13:15-13:30	TB1-0034	Traffic Signal Control Based on Deep Reinforcement Learning with Simplified State and Reward Definitions Salah Bouktif, Abderraouf Cheniki , Ali Ouni and Hesham El Sayed University of Boumerdes, Algeria
13:30-13:45	TB1-0089	Studying the Reinforcement Learning Techniques for the Problem of Intrusion Detection Quang-Vinh Dang and Thanh-Hai Vo Industrial University of Ho Chi Minh city
13:45-14:00	TB1-0059	An Ensemble Machine Learning Method for the Prediction of Heart Disease Sohaib Asif , Wenhui Yi, Tao Yi, Jinhai Si and Jin Hou Central South University, China
14:00-14:15	TB1-0124	The Method of Selecting the Evaluation Model for the State of Children's Growth Based on Machine Learning Yubin Chen, Dancheng Li, Ning Wang , Changyuan Wu and Zhong Wang Northeastern University, China
14:15-14:30	TB1-0021	The Interpretability of Quantum-inspired Neural Network Shikai Song , Yuexian Hou and Guangcheng Liu Tianjin University, China
14:30-14:45	TB1-0064	An Automatic Detection Method of Bird's Nest on Electric Tower Based on Attention Full Convolutional Neural Networks Wuzhong Dong , Lie Wu, Qi Wang and Sen Cheng Sichuan Electric Power Design & Consulting Co., Ltd, China
14:45-15:00	TB1-0091	Few-shot Learning for Rolling Bearing Fault Diagnosis Based on Residual Convolutional Neural Network Zihao Cui , Xiangwei Kong and Peifeng Hao Northeastern University, China
15:00-15:15	TB1-0112	Graph Neural Network Recommendation Model Based on Long- and Short-Term Interests Qi Feng , Yuan Tan, Ming Zhou, Guangjun Zeng and Zhe Chen National University Of Defense Technology, China

Session 6 – Big Data Science and Data Engineering
 平行报告 6 — 大数据科学及数据工程

Time: Sunday, May 30 | 5 月 30 日 (星期日)

Zoom ID: 946 8991 9473

Link: <https://zoom.com.cn/j/94689919473>

Session Chair: Dr. Md Altab Hossin, University of Science and Technology of China, China

13:00-13:15	TB1-0044	Technical Architecture of Big Data Cloud Platform for Intelligent Washing Factory Chuanxing Zheng Guizhou University of Commerce, China
13:15-13:30	TB1-0096	Analysis of the security strategy of computer network data under the background of big data Xiaolan Yu Jincheng College of Sichuan University, China
13:30-13:45	TB1-0137	A Novel Algorithm using Content-based filtering Technology in Apache Spark for Big Data Analysis Yolamu Kamukwamba and Liu Chunxiao Bohai University, China
13:45-14:00	TB1-0022	Weighted Cross-Product Constraint Transformation to Optimize Spatial Structure of Data Siqing Wang , Deqi Li, Xin Zhang and Shutao Zhang China University of Geosciences, China
14:00-14:15	TB1-0041	Overview: The Databases of Chemical Components of Traditional Chinese Medicine Yang Li , Xiaomeng Li, Ping Ma and Jingang Ma Shandong University of Traditional Chinese Medicine, China
14:15-14:30	TB1-0043	Early warning and Prevention of non-compliance of Internal Control Information Disclosure based on data Mining Na Liu and Lianxi Wang South China Business College of Guangdong University of Foreign Studies, China
14:30-14:45	TB1-0050	A Novel Scheme for Crawling and Mining of Housing Transaction data Luyao Chen and Tao Xu Henan University, China
14:45-15:00	TB1-0140	Application of Data Mining in Predicting College Graduates Employment Shouwu He, Xiaoying Li and Jia Chen Guilin University of Technology at Nanning, China
15:00-15:15	TB1-0003	How to Realize Precision Marketing In Catering Industry Through Big Data Siyang Liu Fordham University, China

Session 7 – Computer Modeling and Mathematical Calculation

平行报告 7 — 计算机建模与数学计算

Time: Sunday, May 30 | 5 月 30 日 (星期日)

Zoom ID: 920 7013 4543

Link: <https://zoom.com.cn/j/92070134543>

Session Chair: Dr. Tham Mau Luen, Univeristi Tunku Abdul Rahman, Malaysia

13:00-13:15	TB1-0017	Complex-valued Vectors for Word Representation Guangcheng Liu and Yuexian Hou Tianjin University, China
13:15-13:30	TB1-0046	A Method of Load Forecasting Based on Temporal Convolutional Network Ganghong Zhang , Wenbin Chen, Chao Huo, Huifeng Bai and Jian Gao, Jinhong He, Shuaiying Ma and Tonglei Liu Beijing Smart Chip Microelectronics Technology Company Limited, China
13:30-13:45	TB1-0049	Dynamically Mixed Group Convolution to Lighten Convolution Operation Hang Wei , Zulin Wang and Gengxin Hua Beihang University, China
13:45-14:00	TB1-0107	Zipf Matrix Factorization: Matrix Factorization with Matthew Effect Reduction Hao Wang Ratidar.com, China
14:00-14:15	TB1-0152	An Electromagnetic Situation Calculation Method based on Edge Computing and Cloud Computing Zhe Li and Le Yang China Academy of Launch Vehicle Technology, China
14:15-14:30	TB1-0103	Modeling and Algorithm Research on Stowage of Emergency Rescue Vehicles on Ro-Ro Ship Can Han, Qinhui Liu, Tong Hao, Qiang Xu, Jingqiao Liu, Qiangkun Li and Han Shi Harbin Engineering University, China
14:30-14:45	TB1-0126	PID Parameter Optimization of Secondary Cooling Water Distribution Model for Continuous Casting Based on Improved Artificial Bee Colony Algorithm Zheng Wu Northeastern University, China
14:45-15:00	TB1-0061	Modeling and Simulation of Wide Area Backup Protection System Based on UPPAA Xiong Haijun, Ye Xinyu , Jiang He and Wang Yao North China Electric Power University, China
15:00-15:15	TB1-0146	Automatic Market Prediction System Via An Ensembled Model Jinxi Liu , Xiaohan Dou, Peng Yang and Jingyao Fan Jilin University, China

Session 8 – Intelligent Algorithm and Calculation

平行报告 8 — 智能算法及计算

Time: Sunday, May 30 | 5 月 30 日 (星期日)

Zoom ID: 929 5001 3545

Link: <https://zoom.com.cn/j/92950013545>

Session Chair: Dr. Aznul Qalid Md Sabri, University Malaya, Malaysia

16:00-16:15	TB1-0065	Research on Path Planning of AUV Based on Improved Ant Colony Algorithm Shaokun Yan Jiangsu Automation Research Institute, China
16:15-16:30	TB1-0072	Incremental learning algorithm based on graph regularized non-negative matrix factorization with sparseness constraints Jintao Wang , Meng Zhang, Xusheng Hu and Tianwei Ni Wanjiang University of Technology, China
16:30-16:45	TB1-0082	Optimization and Integration of Logistics Facilities Resources Based on Genetic-Simulated Annealing Hybrid Algorithm Qingran Ji , Fan-Chao Meng, Hongzhen Zheng and Dianhui Chu Harbin Institute of Technology, China
16:45-17:00	TB1-0099	Optimization of assembly scheduling based on an improved adaptive genetic algorithm Shanliang Xue, Liuyan Wu , Guangxin Chen, Sijia Cheng and Yong Yuan Nanjing University of Aeronautics and Astronautics, China
17:00-17:15	TB1-0118	Locally Linear Embedding Based on Seagull Optimization Algorithm with T-distribution Parameters Minhui Ye, Zan Yang , Hanwei Jiang, Shuhan Zhou, Wei Nai, Dan Li and Yidan Xing Tongji Zhejiang College, China
17:15-17:30	TB1-0113	A Intrusion Detection Algorithm Based on Improved Slime Mould Algorithm and Weighted Extreme Learning Machine Tang Xiong , Ge Lina, Zhang Guifen and Qin Donghong GuangXi University for Nationalities, China
17:30-17:45	TB1-0119	Elastic Network Regression Based on Differential Evolution Dragonfly Algorithm with T-Distribution Parameters Jiayi Zhang, Wei Nai , Kairui Luo, Peiran Leng, Zan Yang, Dan Li and Chi Zhang Tongji Zhejiang College, China

17:45-18:00	TB1-0160	Traffic Anomaly Detection Algorithm Based on Improved Salp Swarm Optimal Density Peak Clustering Xin Li , Peng Yi, Yiming Jiang and Xiangyu Lu PLA Strategic Support Force Information Engineering University, China
18:00-18:15	TB1-1006	Highway Traffic Flow Prediction Based on Optimized KNN of Spark Zhang Liping , Feng Yongxiang, Li Leixiao and Bai Xiaoman Inner Mongolia University of Technology, China
18:15-18:30	TB1-0092	Analysis of Microblog User Influence Based On Multivariate Interaction Counting Framework Model Zhikai Wang and Xuemin Zi Tianjin University of Technology and Education, China

Session 9 – Image Analysis and Methods
平行报告 9 — 图像分析与方法

Time: Sunday, May 30 | 5 月 30 日 (星期日)

Zoom ID: 946 8991 9473

Link: <https://zoom.com.cn/j/94689919473>

16:00-16:15	TB1-0030	Application of active learning in carbonate lithologic identification Biao Yuan , Zhongyuan Wu, Kai Zhang, Deqi Li and Qiaoyu Ma China University of Geosciences, Beijing, China
16:15-16:30	TB1-0048	An Application for Identification of Malignant Weeds in Cereal Fields Based on Neural Network Chao Zhang , Kai Fu, Zengguanqi Duan, Yansong Zhai, Ziping Tian and Jing Huang Jilin University, China
16:30-16:45	TB1-0132	Railway Driver Behavior Recognition Based on Deep Learning Li He and Jie Zhang Southwest Jiaotong University, China
16:45-17:00	TB1-0008	First-Order Meta-Learning in Node Classification with Graph Convolutional Network Jing Cao , Yi Xu and Xuening Song University of Electronic Science and Technology of China, China
17:00-17:15	TB1-0076	A Neuron for Velocity Detection Based on Inhibitory Mechanism in Retina Ganglion Mianzhe Han , Yuki Todo and Zheng Tang Kanazawa University, Japan
17:15-17:30	TB1-0077	Fusion Algorithm for Foggy Image Enhancement Based On Transmittance Weight Factor Wei Sun , Meng Zhang and Jintao Wang Wanjiang University of Technology, China

17:30-17:45	TB1-0143	Improved Genetic Algorithm Otsu for Power Transmission Line Foreign Body Image Segmentation Zhou Hao , Zhang Hongmin, Li Shunyuan and Li Pingping Chongqing University of Technology, China
17:45-18:00	TB1-0156	PO-SLAM: A Novel Monocular Visual SLAM with Points and Objects Xiaohan Li , Shiqi Lin, Meng Xu, Deyun Dai and Jikai Wang University of Science and Technology of China
18:00-18:15	TB1-1004	An Image Defog Network based on Multi-Scale Feature Extraction and Weighting Chen Yu , Cai Qiong, Qianqian Huang, GuoQing Chen and Xingbao Fu Wuhan Institute of Technology, China
18:15-18:30	TB1-0150	Sentiment Assessment of Brand Advertising on Gender Issues on Social Network: A Case Study of Femvertising on Sina Weibo in China Yuan Chen , Zhisheng Zhang and Zhijie Xia Southeast University, China

Session 10 – Advanced Information Theory and Technology

平行报告 10 — 先进信息理论与技术

Time: Sunday, May 30 | 5 月 30 日 (星期日)

Zoom ID: 920 7013 4543

Link: <https://zoom.com.cn/j/92070134543>

Session Chair: Prof. Abdelaziz Bouras, Qatar University, Qatar

16:00-16:15	TB1-0001	Micro-course Evaluation Index System based on User Experience Yu Sun , Dongmei Yang and Yaowen Xia Yunnan Normal University, China
16:15-16:30	TB1-0031	SAFS: Social-Article Features-Stacking Model for Fake News Detection Xiaojun Wu and Jimin Wang Peking University, China
16:30-16:45	TB1-0032	An Interpretable Regularization Method Based on Minimizing Mutual Information Nan Xie and Yuexian Hou Tianjin University, China
16:45-17:00	TB1-0062	Studying the Fuzzy Clustering Methods to Understand Employee Performance Quang-Vinh Dang , Minh-Tuan Truong and Minh-Hoang Huynh Industrial University of Ho Chi Minh City, Vietnam
17:00-17:15	TB1-0067	A VCT Discovery Algorithm of Renju Zhikun Zhao , Fan Zhang, Quansheng Wu and Yuan Zhang Shandong University of Finance and Economics, China

17:15-17:30	TB1-0078	Rounding Shift Channel Post-Training Quantization using Layer Search Mengmeng Xu , Mingxin Zhao, Xuemin Zheng, Liyuan Liu, Shuangming Yu and Nanjian Wu University of Chinese Academy of Sciences, China
17:30-17:45	TB1-0088	HyperEA: Hyperbolic Entity Alignment between Knowledge Graphs Shuai Gao Beijing University of Posts and Telecommunications, China
17:45-18:00	TB1-0094	Enhancing Collaborative Filtering Recommendation by User Interest Probability Jing Yu, Jingjing Shi, Yunwen Chen, Wenhai Liu, Kai Liu and Zhijun Xie Datagrand Company, China
18:00-18:15	TB1-0109	Research on Named Entity Recognition Technology of Knowledge Graph for Flipped Classroom Yifeng Li , Yuan Tan, Ming Zhou, Guangjun Zeng and Zhe Chen National University Of Defense Technology, China
16:00-16:15	TB1-0079	Microservice Anomaly Detection based on Tracing Data using Semi-supervised Learning Min Li , Dingyong Tang, Zepeng Wen and Yunchang Cheng China Academy of Engineering Physics Institute of Computer Application, China

Session 11 – Sentiment Analysis and Deep Learning
平行报告 11 — 情感分析与深度学习

Time: Monday, May 31 | 5月31日 (星期一)

Zoom ID: 929 5001 3545

Link: <https://zoom.com.cn/j/92950013545>

Session Chair: Dr. Yongjun Hu, Guangzhou University, China

10:00-10:15	TB1-0053	Quantum-inspired Model based on Convolutional Neural Network for Sentiment Analysis Si Li and Yuexian Hou Tianjin University, China
10:15-10:30	TB1-0068	Live comments emotional analysis based on EE-RNN Pengcheng Tan , Hongguang Xu and Ke Xu Harbin Institute of Technology, Shen Zhen, China
10:30-10:45	TB1-0075	Sentiment Classification Algorithm of Danmaku Comment Based on Modified Bayes Model Ziyi Wang and Guanying Huang Leshan Normal University, China

10:45-11:00	TB1-0141	Aspect Extraction in Sentiment Analysis Based on Emotional Affect Using Supervised Approach Jaafar Zubairu Maitama , Norisma Idris, Asad Abdi and Andrew Thomas Bimba University of Malaya, Malaysia
11:00-11:15	TB1-0153	Research on Semantic Sentiment Analysis Based on BiLSTM Chenyue Zhang and Lizhi Liu Wuhan Institute of Technology, China
11:15-11:30	TB1-1002	PHARN: A Probabilistic Graph Model Based Hierarchical Affective Reasoning Network for Conversational Sentiment Analysis Peng Guo , Yuexian Hou and Xiujun Gong Tianjin University, China
11:30-11:45	TB1-0018	Applying Deep Learning to Autonomous Vehicles: A Survey Jing Ren, Sk Sami Al Jabar and Hossam Gaber Ontario Tech University, Canada
11:45-12:00	TB1-0069	Research on Bearing Fault Diagnosis Base on Deep Learning Weipeng Xu Shanghai Co., Ltd. China Coal Technology and Engineering Group, China
12:00-12:15	TB1-0115	IoT-based Disaster Detection Model Using Social Networks and Machine Learning Khalid Alfalqi and Martine Bellaiche Polytechnique de Montreal, Canada
12:15-12:30	TB1-0026	Comparative Study on Different Dimension Reduction Methods in Remote Sensing Ground Object Recognition Lei Kang , Xin Zhang, Kai Zhang and Biao Yuan China University of Geosciences, Beijing, China

Session 12 – Computer Network and Computer Graphics
平行报告 12 — 计算机网络与计算机图形学

Time: Monday, May 31 | 5 月 31 日 (星期一)

Zoom ID: 946 8991 9473

Link: <https://zoom.com.cn/j/94689919473>

Session Chair: Assoc. Prof. Minghui Zhao
China Coal Technology & Engineering Group Shanghai Co., Ltd., China

10:00-10:15	TB1-0012	Investigating the Efficiency of a Three-Dimensional Facial Tracker Using Stereo Camera Arrangements Faleh AlQahtani , Jasmine Banks, Vinod Chandran and Jinglan Zhang Queensland University of Technology, Australia
10:15-10:30	TB1-0157	Deep Learning Approach for Breast Ultrasound Image Segmentation Yahya Alzahrani and Boubakeur Boufama University of Windsor, Canada

10:30-10:45	TB1-0028	<p>Feature Extraction of Hyperspectral Image Structure Based on Spatial-Spectral Fusion</p> <p>Shutao Zhang, Xin Zhang, Kai Zhang and Biao Yuan China University of Geosciences, China</p>
10:45-11:00	TB1-0039	<p>An End-to-End Practice of Remote Sensing Object Detection with NVIDIA Embedded System</p> <p>Jingyao Huang, Hao Su, Xun Liu, Wei Li, Yi Cai and Lingxue Wang Beijing Institute of Technology, China</p>
11:00-11:15	TB1-0136	<p>Visual saliency prediction of Global Attention based on relevance perception</p> <p>Chenzhou Deng, Xiangyang Chen and Cao Qianqian Wuhan Institute of Technology, China</p>
11:15-11:30	TB1-0147	<p>Multi-transformation Consistency Regularization for Semi-supervised Medical Image Segmentation</p> <p>Yi Zhang, Bin Zhou, Lei Chen, Yulin Wu and Hongchao Zhou Shandong University, China</p>
11:30-11:45	TB1-0083	<p>A Double Stream Module in Backbone for Object Detection Network</p> <p>Xuanfang He, Yan Ding, Yating Yuan, Weidong Liang, Xinliang Huang and Jiayuan Shan Beijing Institute of Technology, China</p>
11:45-12:00	TB1-0102	<p>Encrypted Traffic Classification Based on Traffic Reconstruction</p> <p>Qianli Ma, Wei Huang, Yanliang Jin and Jianhua Mao Shanghai University, China</p>
12:00-12:15	TB1-0114	<p>A Deep Intrusion Detection System in Lambda Architecture Based on Edge Cloud Computing For IoT</p> <p>Rubayyi Alghamdi and Martine Bellaiche E'cole Polytechnique de Montre'al, Canada</p>
12:15-12:30	TB1-0027	<p>Hyperspectral Object Recognition Based on Optimized Gabor Spatial-Spectral Feature</p> <p>Quanwei Xu, Xiaoqing Hu, Kai Zhang and Biao Yuan China University of Geosciences, Beijing, China</p>

Session 13 – Artificial Intelligence and Information Management
 平行报告 13 — 人工智能及信息管理

Time: Monday, May 31 | 5 月 31 日 (星期一)

Zoom ID: 929 5001 3545

Link: <https://zoom.com.cn/j/92950013545>

Session Chair: Prof. Mohd Saberi Mohamad, United Arab Emirates University, UAE

14:00-14:15	TB1-0037	<p>Research on VSLAM of UAV in Coal Mine Based on ROS Minghui Zhao, Qijun Chen and Shihong Zhang School of Electronics and Information Engineering, Tongji University, China; China Coal Technology & Engineering Group Shanghai Co., Ltd., China</p>
14:15-14:30	TB1-0120	<p>Blockchain-based infrastructure for Artificial Intelligence with quantum resistant Bo Yuan, Faguo Wu, Wangjie Qiu, Wendi Wang, Hong Zhu and Dongxu Zhou Beihang University, China</p>
14:30-14:45	TB1-0149	<p>Robot Mapping and Navigation System Based on Multi - Sensor Fusion Bo Zhang and Jie Zhang Southwest Jiaotong University, China</p>
14:45-15:00	TB1-0131	<p>Intelligent Control System of Coal Mine Main Transportation Based on Machine Vision Yongqing Lv, Ning Liu, Cungen Xi and Minghui Zhao China Coal Technology & Engineering Group Shanghai Co., Ltd., China</p>
15:00-15:15	TB1-0148	<p>A Model Hybrid Recommendation Approach based on Knowledge Graph Convolution Networks Zhen Hou, Tong Li, Huilin Fu, Qidong Liu, Zehui Zhang and Mengjie Hu Yunnan University, China</p>
15:15-15:30	TB1-0138	<p>Multi-behavior Recommendation Based on Simplified Graph Convolutional Networks Hongfei Yu, Xinhua E, Xiaoli Li, Kang Wang and Siyang Zhang Beijing University of Technology, China</p>
15:30-15:45	TB1-0111	<p>Research on System Log Anomaly Detection Combining Two-way Slice GRU and GA-Attention Mechanism Shijing Gu, Yuchun Chu, Wenbin Zhang, Peishun Liu, Qilin Yin and Qi Li Ocean University of China</p>
15:45-16:00	TB1-0038	<p>Movement Stimulation through Social Media: The Tweeted Perspective and Road Safety Movement in Bangladesh Afsana Begum, Md. Alamgir Hossain, A.U. M. Tuhin, M. K. Sohel, Md Fakrul Abedin Bhuiyan and A. H. Sarwar Daffodil International University, Dhaka, Bangladesh</p>

16:00-16:15	TB1-0045	Hierarchical Cost-Sensitive Techniques for Class Imbalance Learning Huan Xu TianJin Petroleum Vocational and Technical College, China
16:15-16:30	TB1-0125	Research on the Interaction Design of Mobile APP for Second-hand Luxury Goods Transaction Wen Qi and Pengpeng Yang Donghua University, China

Session 14 – Computer and Application Engineering

平行报告 14 — 计算机与应用工程

Time: Monday, May 31 | 5 月 31 日 (星期一)

Zoom ID: 946 8991 9473

Link: <https://zoom.com.cn/j/94689919473>

Session Chair: Dr. Man-fung Lo, The Education University of Hong Kong

14:00-14:15	TB1-0070	Clinical Application of Artificial Intelligence in Rehabilitation Robots for Balance Disorders Yuning Feng, Kainan Li and Yuan Bo Affiliated Hospital of Chengdu University,China
14:15-14:30	TB1-0035	A Method of Equipment Safety Certification Based on Daily Cycle Activity Nan Ye, Runjie Xu , Fangling Sun and Chenhao Sun Nanjing University of Aeronautics and Astronautics, China
14:30-14:45	TB1-0042	Design of Electronic Device Life Test Monitoring System based on Optical Character Recognition Technology Jiawei Ji and He Lv Beihang University, China
14:45-15:00	TB1-0054	CrossNet: Computing-Friendly Lightweight Anchor-Free Detector Yuncong Yao , Qiang Wang, Jiren Mai and Wankou Yang Southeast University, China
15:00-15:15	TB1-0080	Window-Based Dynamic Streaming Tensor Analysis Based on CP Decomposition Xuemei Zhong , Junhua Chen, Lei Zhang and Yan Zhang Chongqing University of Posts and Telecommunications ,China
15:15-15:30	TB1-0081	A Multi-objective Task-Driven Vehicle Routing Problem with Recirculating Delivery and its Solution Approaches Lei Wang , Fanchao Meng, Xiaochuan Min and Dianhui Chu Harbin Institute of Technology, China
15:30-15:45	TB1-0006	Removal of Rain Streaks in Air Using GAN Pin Cao , Jie Zhang, Peng Zou, Donglin Li, Wuchang Li, Chengli Zhong, Lei Ma and He Cui Southwest Jiaotong University, China

15:45-16:00	TB1-0023	Lithology Classification System for Well Logging Based on Bidirectional Gated Recurrent Unit Rui Zhou , Xiaoqing Hu, Biao Yuan and Quanwei Xu China University of Geosciences, China
16:00-16:15	TB1-0016	Network Characteristics and Risk Analysis of Logistics Sharing Economy Ming Dai, Runjie Xu , Jian Du, Yuchang Liu and Hongwei Xing Nanjing Boya Blockchain Research Institute Co., Lt, China
16:15-16:30	TB1-0024	Shear Wave Velocity Prediction of Carbonate Reservoirs Based on CatBoost Chengcheng Zhong , Fengjie Geng, Xin Zhang, Zitong Zhang, Zhongyuan Wu and Yanan Jiang China University of Geosciences, Beijing, China
17:00-17:20---Closing & Award (Online) 闭幕式暨颁奖仪式 (线上) Zoom ID: 929 5001 3545 Link: https://zoom.com.cn/j/92950013545		

Posters | 海报

Time: Saturday, May 29 | 5月29日 (星期六)

Onsite Venue-Himalaya Hall|喜马拉雅厅- 17F

<p>TB1-0009</p>	<p>Study on Common Factors Identification of Aerospace Quality Problems Based on Similarity Fengsheng JIA, Yuming WANG, Jiaqi YOU Aerospace Standardization Institute of China, China</p>
<p>TB1-0093</p>	<p>CRW-NER: Exploiting multiple embeddings for Chinese named entity recognition Aiguo Chen, Chenglong Yin Jiangnan University, China</p>
<p>TB1-0110</p>	<p>Semi-supervised Text Classification Based On Graph Attention Neural Networks Jian Huang, Nana Tao, Hui Chen, Qingshan Deng, Wei Wang, Jing Wang Jiangxi University of Finance and Economics, China</p>
<p>TB1-1007</p>	<p>Research on Employee Turnover Prediction Based on Machine Learning Algorithms Jia Yuan Chengdu Institute of Public Administration, China</p>

