

EITCE 8th 2024

第八届电子信息技术与计算机工程 国际学术会议

2024 8th International Conference on
Electronic Information Technology and Computer Engineering

Conference Brochure 会议手册

October 18-20, 2024 Haikou, China

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会议简介

About EITCE 2024

第八届电子信息技术与计算机工程国际学术会议（EITCE 2024）将于 2024 年 10 月 18 日至 20 日在中国海口举办。大会由海南科技职业大学主办，并获得多家高校与研究机构共同支持。大会围绕电子信息技术与计算机工程等相关最新研究领域，为研究人员与学者提供一个交流和展示研究成果的高端学术交流平台，通过主题演讲、口头汇报和海报展示等形式，传递最前沿科技进展和成果，促进技术的交流和智慧的碰撞，以交流促合作，以交流促发展。大会热忱欢迎国内外高校、科研机构专家、学者、企业界人士及其他相关人员参会交流。

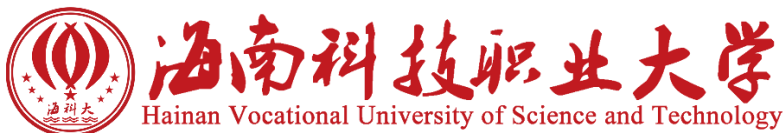
会议官网：www.eitce.org

The 2024 8th International Conference on Electronic Information Technology and Computer Engineering (EITCE 2024), organized by Hainan Vocational University of Science and Technology, will be held on October 18-20, 2024 in Haikou, China. EITCE 2024 is to bring together innovative academics and industrial experts in the field of electronic information technology and computer engineering to a common forum. The primary goal of the conference is to promote research and developmental activities in electronic information technology and computer engineering and another goal is to promote scientific information interchange between researchers, developers, engineers, students, and practitioners working all around the world. The conference will be held every year to make it an ideal platform for people to share views and experiences in electronic information technology and computer engineering and related areas.

Conference Website: www.eitce.org

主办单位

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海南科技职业大学是海南省唯一一所本科层次职业教育试点改革院校，是全国首批本科层次职业大学。学校于 2006 年在原中央美术学院海口校区基础上筹办，承担着职业本科教育试点改革的重要任务。学校落实“立德树人”根本任务，坚持为党育人、为国育才，秉承“科学、务实、厚德、创新”的校训和“人才强校、质量立校、特色兴校”的办学理念，紧紧围绕服务国家战略、海南自贸港建设和海南重点产业需求，开展“三全育人”“德技并修”“五育并举”等育人模式，以就业为导向，为海南自贸港建设和海南经济社会发展培养服务高端产业和高端岗位的高层次技术技能人才。

在海南省委、省政府、省教育厅的正确领导下，学校发展为海南省“双高”建设院校，首批全国急救教育试点学校，全国职业院校数字校园建设示范校，教育部“1+X”职业技能等级证书改革试点学校，教育部规建中心“产教融合应用型课程改革实验学校”，中国残联、教育部批准的“海南省残疾人康复指导中心”，教育部、国家卫健委、民政部首批“全国职业院校健康服务与管理类专业示范点”。学校 2022 年 4 月获得学士学位授权单位，所有本科专业均获得了学士学位授权。于 2022 年 12 月获批为海南省新增硕士学位授予立项建设单位。学生学科和技能竞赛成绩在 2022 年高等教育学会发布的全国高职院校学生竞赛排行榜排名进入前 200 名，居 2021 年全国民办本科职业大学第一名；民办高职院校教师教学发展指数排名位居榜首，是全国排名第一的民办职业本科大学；荣获“2023 年度中国职教榜样品牌”“2023 年度综合竞争力品牌高校”“中国民办十大知名品牌学校”等称号。在中国科教评价网（金平果）和中国校友会发布的职业本科大学综合竞争力排行榜连续三年位列民办职业本科大学第一；在中国大学排行榜（CNUR）2023 年 ABC 中国职业本科大学排名中位列全国职业本科高校前三、民办职业本科高校第一。学校在“2024 校友会中国大学排名”中荣膺全国职业技术大学第二，民办第一，获评为“中国顶尖职业技术大学”。

Hainan Vocational University of Science and Technology is the only pilot reform institution for undergraduate vocational education in Hainan Province and is one of the first batch of undergraduate vocational universities in the country. Established in 2006 based on the former Haikou campus of the Central Academy of Fine Arts, the university is tasked with the important mission of carrying out pilot reforms in vocational undergraduate education. The university implements the fundamental task of "moral integrity and talent cultivation," adhering to the principles of educating individuals for the Party and the country. It upholds the school motto of "Science, Pragmatism, Integrity, and Innovation" and the educational philosophy of "Strengthening the School with Talents, Upholding Quality, and Promoting Unique Characteristics," focusing on serving national strategies, the construction of the Hainan Free Trade Port, and the needs of key industries in Hainan. The university develops models such as "all-round education," "integrated moral and technical training," and "holistic education" that are job-oriented, aiming to cultivate high-level technical and skilled talents for the high-end industries and positions needed for the construction of the Hainan Free Trade Port and the economic and social development of Hainan.

Under the correct leadership of the Hainan Provincial Party Committee, the Provincial Government, and the Provincial Department of Education, the university has developed into a college that is part of Hainan's "Double High" construction initiative, a pilot school for national first aid education, a model school for digital campus construction in vocational colleges, a pilot school for the Ministry of Education's "1+X" vocational skill level certificate reform, an experimental school for "industry-education integration and applied course reform" designated by the Ministry of Education's Institute of Regulation and Construction, and a "Hainan Provincial Rehabilitation Guidance Center for Persons with Disabilities" authorized by the China Disabled Persons' Federation and the Ministry of Education. It is also a first batch "demonstration site" for health service and management majors as designated by the Ministry of Education, the National Health Commission, and the Ministry of Civil Affairs. In April 2022, the university was authorized to confer bachelor's degrees, and all undergraduate programs received bachelor's degree authorization. In December 2022, Hainan Vocational University of Science and Technology was approved as a new postgraduate degree conferring project construction unit in Hainan Province in December 2022.

Students achieve outstanding results in academic and skills competitions, placing among the top 200 in the national vocational college student competition rankings released by the Higher Education Society in 2022, and ranking first among private undergraduate vocational universities in 2021. The university holds the top position in the teacher development index among private higher vocational colleges and is recognized as the number one private undergraduate vocational university in the country. It has been awarded titles such as the "2023 Exemplary Brand in Chinese Vocational Education," "2023 Comprehensive Competitiveness Brand University," and "Top Ten Well-Known Private Schools in China." For three consecutive years, it has ranked first among private vocational undergraduate universities in the comprehensive competitiveness rankings published by the China Science and Education Evaluation Network (Jinpingguo) and the China Alumni Association. In the 2023 ABC ranking of vocational undergraduate universities in China released by CNUR, it ranks among the top three nationwide for vocational undergraduate institutions and is the top-ranked private vocational undergraduate university. In the "2024 Alumni Association of China University Rankings", the university won the second place in the national vocational and technical university, the first place in the private sector and was rated as "China's top vocational and technical university".

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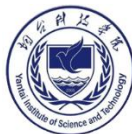
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Dr. Salman Goli, University of Kashan, Iran
Dr. David Chua Sing Ngie, University Malaysia Sarawak, Malaysia

大会议程

Conference Agenda

2024 年 10 月 18 日 / October 18, 2024	
地点 Venue: 海口鲁能希尔顿酒店 一楼大堂	
14:00-18:00	签到&领取资料 / Registration
主会场 / Plenary Session	
2024 年 10 月 19 日 / October 19, 2024	
会场地址 Venue: 海口鲁能希尔顿酒店 一楼 演讲厅 Online Meeting (Zoom ID: 893 9298 0536 Password: 241019)	
主持人: 牟海维, 副校长/教授, 海南科技职业大学 Host: Prof. Haiwei Mu, Hainan Vocational University of Science and Technology	
08:45-09:00	开幕式 / Opening Ceremony 领导致辞 / Opening Speech
09:00-09:05	合影环节 / Group Photo Session
09:05-09:40	大会报告 / Keynote Speech 王昭诚, 教授, 清华大学 Prof. Zhaocheng Wang, Tsinghua University, China
09:40-10:15	大会报告 / Keynote Speech 徐正元, 教授, 中国科学技术大学 Prof. Zhengyuan Xu, University of Science and Technology of China, China
10:15-10:45	Break & Poster Session/茶歇、海报评选
10:45-11:20	大会报告 / Keynote Speech Prof. Huiyu Zhou, University of Leicester, UK
11:20-11:55	大会报告 / Keynote Speech Assoc. Prof. Leau Yu Beng, Universiti Malaysia Sabah, Malaysia
12:00-13:30	午餐 / Lunch (田园汇西餐厅)

分会场 1 / Parallel Session 1	
2024 年 10 月 19 日 / October 19, 2024	
会场地址 Venue: 海口鲁能希尔顿酒店 负一楼 愿景 22 厅	
主持人: 姜芳峰, 教授, 海南科技职业大学 Host: Prof. Lifeng Jiang, Hainan Vocational University of Science and Technology	
14:00-14:20	邀请报告 / Invited Speech 张瑞飞, 高级工程师, 麒麟软件有限公司 Senior Engineer. Roy Zhang, KylinSoft Co., Ltd
14:20-14:35	口头报告 1 / Oral Presentation 1 张泉勇, 海南科技职业大学 Quanyong Zhang, Hainan Vocational University of Science and Technology
14:35-14:50	口头报告 2 / Oral Presentation 2 张坚强, 常州大学 Jianqiang Zhang, Changzhou University
14:50-15:05	口头报告 3 / Oral Presentation 3 罗杨, 西华大学 Yang Luo, Xihua University
15:05-15:20	口头报告 4 / Oral Presentation 4 高小龙, 海南科技职业大学 XiaoLong Gao, Hainan Vocational University of Science and Technology
15:20-15:35	口头报告 5 / Oral Presentation 5 姚鉴儒, 浙江工商大学 JianRu Yao, Zhejiang Gongshang University
15:35-15:50	茶歇、海报评选 / Break & Poster Session
15:50-16:05	口头报告 6 / Oral Presentation 6 郑承浩天, 海南科技职业大学 Chenghaotian Zheng, Hainan Vocational University of Science and Technology
16:05-16:20	口头报告 7 / Oral Presentation 7 马千里, 海南科技职业大学 Qianli Ma, Hainan Vocational University of Science and Technology
16:20-16:35	口头报告 8 / Oral Presentation 8 朱红羽, 海南科技职业大学 Hongyu Zhu, Hainan Vocational University of Science and Technology
16:35-16:50	口头报告 9 / Oral Presentation 9 杨林菲, 澳门大学 Linfei Yang, University of Macao
16:50-17:05	口头报告 10 / Oral Presentation 10 张华芯, 海南科技职业大学 Huaxin Zhang, Hainan Vocational University of Science and Technology

17:05-17:20	口头报告 11 / Oral Presentation 11 谢易含, 海南科技职业大学 Yihan Xie, Hainan Vocational University of Science and Technology
17:20-17:35	口头报告 12 / Oral Presentation 12 盖伯, 长安大学 Gaber Ahmed Al-Absi, Chang' an University
18:00-19:30	晚宴 (闭幕式+颁奖) / Dinner(Closing ceremony + Award)

分会场 2 / Parallel Session 2	
2024 年 10 月 19 日 / October 19, 2024	
会场地址 Venue: 海口鲁能希尔顿酒店 负一楼 愿景 23 厅	
主持人: 阚继承, 教授, 海南科技职业大学 Host: Prof. Jicheng Kan, Hainan Vocational University of Science and Technology	
14:00-14:20	邀请报告 / Invited Speech 李景宇, 高级工程师, 华为技术有限公司 Senior Engineer. Jingyu Li, Huawei Technologies Co., Ltd
14:20-14:35	口头报告 1 / Oral Presentation 1 杨喆, 海南科技职业大学 Zhe Yang, Hainan Vocational University of Science and Technology
14:35-14:50	口头报告 2 / Oral Presentation 2 江宇闻, 广州理工大学 Yuwen Jiang, Guangzhou Institute of Science and Technology
14:50-15:05	口头报告 3 / Oral Presentation 3 徐冰怡, 海南科技职业大学 Bingyi Xu, Hainan Vocational University of Science and Technology
15:05-15:20	口头报告 4 / Oral Presentation 4 陈愉, 集美大学 Yu Chen, Jimei University
15:20-15:35	口头报告 5 / Oral Presentation 5 韩昊轩, 海南科技职业大学 Haixuan Han, Hainan Vocational University of Science and Technology
15:35-15:50	茶歇、海报评选 / Break & Poster Session
15:50-16:05	口头报告 6 / Oral Presentation 6 吴进, 华东师范大学 Jin Wu, East China Normal University

16:05-16:20	口头报告 7 / Oral Presentation 7 熊玉签, 海南科技职业大学 Yuqian Xiong, Hainan Vocational University of Science and Technology
16:20-16:35	口头报告 8 / Oral Presentation 8 姜睿, 海南科技职业大学 Rui Jiang, Hainan Vocational University of Science and Technology
16:35-16:50	口头报告 9 / Oral Presentation 9 杨义, 副教授, 东华大学 Assoc. Prof. Yi Yang, Donghua University
16:50-17:05	口头报告 10 / Oral Presentation 10 陈雪, 海南科技职业大学 Xue Chen, Hainan Vocational University of Science and Technology
17:05-17:20	口头报告 11 / Oral Presentation 11 陈莎莎, 海南科技职业大学 Shasha Chen, Hainan Vocational University of Science and Technology
17:20-17:35	口头报告 12 / Oral Presentation 12 杨大润, 海南科技职业大学 Darun Yang, Hainan Vocational University of Science and Technology
18:00-19:30	晚宴 (闭幕式+颁奖) / Dinner(Closing ceremony + Award)

致辞嘉宾

Opening Speaker



董勤喜，教授，海南大学 (日本工程院外籍院士)

Prof. Qinxin Dong, Hainan University, China (Foreign Academician of The Engineering Academy of Japan)

董勤喜，博士，海南大学二级教授，博士生导师，日本工程院外籍院士，日本土木学会会士，教育部春晖计划海外专家团特聘专家。董教授拥有 35 年多领域 CAE 工业软件研发经验，精通欧美科学计算工业软件的核心算法及数据存储格式，能够解读和修改工业软件源代码。董教授长期致力于超级计算环境下的超算算法及结构大数据存储研究，研发了完全可控的超算支撑软件平台，并且将其研究成果成功应用于地震工程、工程地质、流体力学、多场耦合，智能制造，新型复合材料的形成及其作用等方面的分析和仿真，形成了超算算法优化，超算软件支持，大数据分析等全系列工程的应用系统。研发的 E 级超算软件，成为日本防灾减灾工程和复合材料仿真领域不可替代的支撑软件之一。在日本形成了较大的影响，产生了较大的产值和利润，在国际上得到了良好的反响。

董教授主持和参与日本自然科学和铁道运输基础研究等基金项目，日本「旗舰 2020 计划」E 级超算数值模拟软件平台等重大专项课题。在国际知名期刊发表论文 80 余篇，参编学术专著 2 部。获日本土木学会论文奖 3 项。自 2020 年全职引进海南大学以来，董勤喜教授组建了“生态碳汇大数据超算科研创新团队”，对海洋污染，海洋数值模拟，油气柔性管道进行超算数值仿真；对动力电池全生命周期产热规律进行超算数值仿真，基于大数据对动力电池健康状态评估及安全预警进行研究，同时重点解决海南省“两高”重点企业负排放技术与碳汇计算方面的超算软件需求，为海南省实现“双碳”目标提供技术支撑。

Dr. Qinxin Dong is a professor at Hainan University, PhD supervisor, Foreign Fellow of the Engineering Academy of Japan, Fellow of the Japan Society of Civil Engineers, and a specially appointed expert of the Overseas Expert Team of the “Chunhui Program” of the Ministry of Education (China). Dr. Dong has over 35 years of experience in the research and development of CAE (Computer-Aided Engineering) industrial software across multi-field coupling systems. He is proficient in the core algorithms and data storage formats of scientific computing industrial software from Europe and the United States, capable of interpreting and modifying industrial software source codes. He has long been dedicated to research on supercomputing algorithms and large-scale data storage in supercomputing environments. The exascale supercomputing software developed by Prof. Dong has become one of the irreplaceable support tools in Japan for disaster prevention and mitigation engineering. He has published over 80 papers in well-known international journals, co-authored two academic books, and received three paper awards from the Japan Society of Civil Engineers.

After joining Hainan University full-time in 2020, he forms “Ecological Carbon Sink Big Data Supercomputing Research Innovation Team”, focusing on supercomputing numerical simulations of marine pollution, marine numerical modeling, and flexible oil and gas pipelines. He conducted supercomputing numerical simulations on the heat generation patterns of power batteries throughout their life cycle to assess power battery health and give safety warnings based on big data. He is also dedicated to meeting the supercomputing software needs in negative emission technologies and carbon sink calculations aspects for Hainan Province’s key “High Energy Consumption” enterprises, providing technical support to achieve its carbon peaking and carbon neutrality goals.

主讲嘉宾

Keynote Speaker



王昭诚，教授，清华大学

Prof. Zhaocheng Wang, Tsinghua University, China

(IEEE& IET Fellow)

王昭诚，清华大学教授，博士生导师，2021年当选 IEEE Fellow。他长期从事 AI 赋能无线通信、毫米波/太赫兹通信、可见光通信等领域的科研工作，支撑高清视频、虚拟现实、全息影像等应用。他承担 973 计划、863 计划、自然科学基金项目以及华为、中兴、索尼、NTT DoCoMo、OPPO、高通等校企合作项目；获授权欧美发明专利 51 项（其中 23 项作为第一发明人）、授权中国发明专利 45 项，多项授权专利被国际标准采纳（据智慧芽网站第三方独立评估，12 项代表性授权专利总估值约 2 亿人民币）；在 IEEE Journal of Selected Areas in Communications 等发表 SCI 论文 180 余篇，Web of Science 他引 8500+次，Google Scholar 他引 15000+次，被列为科睿唯安（Web of Science）全球高被引学者；出版 Wiley 英文专著 2 本，入选 IEEE 数字和移动通信系列丛书。他还获得国家科学技术进步奖一等奖、中国电子学会科学技术奖一等奖、广东省科学技术奖一等奖、重庆市科学技术奖一等奖、北京市科学技术奖一等奖、IEEE Journal on Selected Areas in Communications 最佳论文奖、IEEE 通信学会亚太杰出论文奖、IEEE Transactions on Broadcasting 最佳论文奖、Electronics Letters 最佳论文奖以及多个国际会议最佳论文奖等荣誉。

Zhaocheng Wang, a professor and doctoral supervisor at Tsinghua University, was honored with an IEEE Fellow in 2021. Throughout his career, Prof. Wang has dedicated himself to pioneering research in fields such as AI-enabled wireless communications, millimeter-wave/terahertz communications, and visible light communications, supporting applications like high-definition video, virtual reality, and holographic imaging. Prof. Wang has undertaken projects under the 973 Program, 863 Program, and National Natural Science Foundation of China, as well as collaborative projects with industry partners, including Huawei, ZTE, Sony, NTT DoCoMo, OPPO, and Qualcomm. He holds 51 authorized patents in Europe and the United States (with 23 as the first inventor) and 45 authorized patents in China, many of which have been adopted by international standards (according to an independent third-party assessment by the PatSnap website, the total estimated value of 12 representative authorized patents is approximately 200 million Chinese yuan). Prof. Wang has published over 180 SCI-indexed papers in prestigious journals such as the IEEE Journal of Selected Areas in Communications, with over 8,500 citations on Web of Science and over 15,000 citations on Google Scholar, earning him the status of a Highly Cited Researcher by Clarivate Analytics (Web of Science). He has authored two English monographs published by Wiley, which have been included in the IEEE Press Series on Digital and Mobile Communications. Additionally, Prof. Wang has received numerous accolades, including the First Prize of the National Award for Science and Technology Progress, the First Prize of Science and Technology Award by the China Institute of Electronics, the First Prize of the Guangdong Science and Technology Award, the First Prize of the Chongqing Science and Technology Award, the First Prize of the Beijing Science and Technology Award, the Best Paper Award from the IEEE Journal on Selected Areas in Communications, the Asia-Pacific Outstanding Paper Award from the IEEE Communications Society, the Best Paper Award from the IEEE Transactions on Broadcasting, the Best Paper Award from Electronics Letters, and multiple Best Paper Awards at international conferences.



王昭诚，教授，清华大学

Prof. Zhaocheng Wang, Tsinghua University, China
(IEEE& IET Fellow)

题目/Speech Title

6G 无线通信关键传输技术

Key Transmission Technologies for 6G Wireless Communications

摘要/Abstract

本次报告介绍了人工智能赋能无线通信、通信感知一体化及远近场统一 MIMO 无线通信技术在未来 6G 无线系统中的应用。具体而言，详细阐述和总结以下关键技术：①提出了基于深度学习/强化学习的毫米波波束预测和跟踪方法，以降低波束管理开销；②针对 B5G 无线系统上行信噪比（SNR）低导致的 Type-II 码本角度/延时域端口选择不准确问题，提出了一种基于深度学习的角度/延时域端口选择方法，以减轻噪声带来的负面影响并提高系统和速率；③利用现有 5G 无线系统的 OFDM 波形信号，通过正交资源分配和序列设计（包括跨域 OFDM 波形设计和抗多普勒序列参数优化）实现附带感知功能，同时保持现有无线通信框架不变；④简要介绍了远近场统一的 MIMO 无线通信基本原理。

This talk introduces AI empowered wireless communications, integrated sensing and communications (ISAC) and unified far-field and near-field MIMO for future 6G wireless systems. Specifically, the following key technologies are presented and summarized in detail: ①Millimeter-wave beam prediction and tracking methods with deep learning/reinforcement learning are proposed in order to reduce the overhead of beam management; ②Considering the inaccurate angular-delay port selection of Type-II codebook due to low signal-to-noise ratio (SNR) in uplink B5G wireless systems, an angular-delay port selection method with deep learning is proposed to mitigate the negative impact of noise and improve the sum-rate performance; ③Leveraging the state-of-the-art 3GPP OFDM waveform signals, additional sensing functions could be realized through orthogonal resource allocation and sequence design including cross-domain OFDM waveform design and Doppler-resilient sequence parameter optimization, while preserving the existing communication framework unchanged; ④The basic principle of unified far-field and near-field MIMO wireless systems is briefed.

主讲嘉宾

Keynote Speaker



徐正元，讲席教授，中国科学技术大学

Prof. Zhengyuan Xu, University of Science and Technology of China, China (H-index: 52)

徐正元，中国科学技术大学讲席教授、博士生导师、学术委员会委员、无线光通信与网络研究中心主任，中科院无线光电通信重点实验室创始主任，国家特聘专家，国家 973 计划和国家重点研发计划首席科学家。获得清华大学学士和硕士学位，以及美国史蒂文斯理工学院博士学位，曾任加州大学河滨分校终身教授、加州大学泛在光通信研究中心创始主任、清华大学终身教授、中国科学技术大学信息科学技术学院副院长。主要从事移动通信与光通信的理论和实验研究，包括拍赫兹通信，无线光通信，宽带移动通信，定位与感知，智能网络，无线通信大数据等。作为项目负责人承担了国家 973 计划、国家重点研发计划、国家基金委重点项目等国家项目以及企业合作项目。共发表 400 多篇学术论文，3 部专著，在谷歌学术上获得 10000 多次引用，自 2014 年以来，逐年被列入爱思唯尔中国高被引学者榜单。拥有 30 多项国家和国际发明专利授权，部分成果入选《中国基础研究发展报告》。担任多年 IEEE 和 OPTICA 期刊副编辑，中国光学工程学会常务理事，广东省智慧可见光产业技术创新联盟理事长，多次受邀担任国家科研与人才项目评审专家。为 2010 年第一届 IEEE 无线光通信国际研讨会的创始主席。

Zhengyuan Xu is a chair professor, doctoral supervisor, director of the Optical Wireless Communication and Network Research Center, at the University of Science and Technology of China, as well as a founding director of the Key Laboratory of Wireless Optical Communication at the Chinese Academy of Sciences (CAS), national distinguished expert, and chief scientist of the National 973 Program and the National Key R&D Program. He earned his bachelor's and master's degrees from Tsinghua University and a doctoral degree from Stevens Institute of Technology in the United States. He has served as a tenured professor at the University of California, Riverside, founding director of the Ubiquitous Optical Communication Research Center at the University of California, a tenured professor at Tsinghua University, and vice dean of the School of Information Science and Technology at the University of Science and Technology of China. He is mainly engaged in theoretical and experimental research on mobile communication and optical communication, including Petahertz communication, optical wireless communication, broadband mobile communication, localization and sensing, intelligent networks, wireless communication big data, etc. As the project leader, he has undertaken national projects such as the National 973 Program, National Key R&D Program, and Key Project of the National Natural Science Foundation of China, as well as industry cooperation projects. He has published more than 400 academic papers, 3 monographs, and gained over 10000 citations on Google Scholar. Since 2014, he has been included in the Elsevier China Highly Cited Scholars list year by year. He has more than 30 national and international invention patents authorized, and some of the achievements have been selected for the China Basic Research Development Report. He has served as the associate editor of IEEE and OPTICA journals for many years, executive member of the Chinese Society of Optical Engineering, chairman of the Guangdong Smart Visible Light Industry Technology Innovation Alliance, and has been invited multiple times to serve as a national research and talent project evaluation expert. He was the founding chairman of the first IEEE International Workshop on Optical Wireless Communication in 2010.



徐正元，讲席教授，中国科学技术大学

**Prof. Zhengyuan Xu, University of Science and Technology of China,
China (H-index: 52)**

题目/Speech Title

探索 6G 光谱：从无线光通信到拍赫兹通信

Exploring Optical Spectrum for 6G: From Optical Wireless to Petahertz Communications

摘要/Abstract

随着 5G 移动网络的快速部署，学术界已开始讨论 6G 的关键技术。本报告将概述现有基于红外、可见光以及紫外光波的无线光通信（OWC）技术。报告主要介绍 OWC 信道模型、通信系统和网络中的一些关键理论与实验进展，以及在室内、室外和水下场景中的应用。此外，还将介绍一个新型的拍赫兹通信（PetaCom）统一框架，以整合碎片化的光波波段，从而使系统能够更好地适应不同的终端和环境。最后，报告还将讨论拍赫兹通信面临的挑战，并指出其在通信、定位、控制和感知等方面的潜在应用。

With rapid deployment of 5G mobile networks, the research community has initiated discussions on the enabling technologies for 6G. This talk will overview the Optical Wireless Communication (OWC) technologies in the existing infrared, visible light as well as ultraviolet optical bands. It will present some key theoretical and experimental advances in OWC channel models, communication systems and networks, as well as applications in indoor, outdoor, and underwater scenarios. It will further introduce a new unified Petahertz Communication (PetaCom) framework to harmonize the fragmented optical bands, in order to enable strong system adaptation to the diverse terminals and environments. Finally it will address PetaCom challenges and point out potential applications in communication, positioning, control and sensing.

主讲嘉宾

Keynote Speaker



Prof. Huiyu Zhou

University of Leicester, UK

(H-index:60) (IEEE Senior Member)

周博士在华中科技大学获得学士学位，在英国邓迪大学获得生物医学工程的硕士学位，在英国爱丁堡的赫瑞瓦特大学获得了计算机视觉博士学位。周博士目前是英国莱斯特大学计算与数学科学学院的全职教授。他在该领域发表了 500 多篇经过同行评审的论文。他的研究工作得到了英国工程与自然科学研究 council (EPSRC)、社会科学研究理事会 (ESRC)、艺术与人文研究理事会 (AHRC)、医学研究理事会 (MRC)、欧盟 (EU)、创新英国 (Innovate UK)、皇家学会 (Royal Society)、英国心脏基金会 (British Heart Foundation)、Leverhulme Trust、Puffin Trust、阿尔茨海默研究英国 (Alzheimer's Research UK)、Invest NI 以及相关行业的支持。

Dr. Huiyu Zhou received a Bachelor of Engineering degree in Radio Technology from Huazhong University of Science and Technology of China, and a Master of Science degree in Biomedical Engineering from University of Dundee of United Kingdom, respectively. He was awarded a Doctor of Philosophy degree in Computer Vision from Heriot-Watt University, Edinburgh, United Kingdom. Dr. Zhou currently is a full Professor at School of Computing and Mathematical Sciences, University of Leicester, United Kingdom. He has published over 500 peer-reviewed papers in the field. His research work has been or is being supported by UK EPSRC, ESRC, AHRC, MRC, EU, Innovate UK, Royal Society, British Heart Foundation, Leverhulme Trust, Puffin Trust, Alzheimer's Research UK, Invest NI and industry.

**Prof. Huiyu Zhou**

University of Leicester, UK

(H-index:60) (IEEE Senior Member)

题目/Speech Title

对预训练语言模型的抑制适应

Inhibition adaption on pre-trained language models

摘要/Abstract

微调预训练语言模型 (LMs) 并不总是下游任务最实用的方法。虽然适应性微调方法已经显示出良好的效果, 但需要更清晰地解释其机制, 并进一步抑制信息的传递。为此, 我们提出了一种抑制适应 (Inhibition Adaptation, InA) 微调方法, 旨在减少新增可调权重的数量, 并适当地重新加权源自预训练语言模型的知识。InA 方法包括 (1) 在每个 Transformer 注意力结构中插入一个小的可训练向量, 以及 (2) 设置阈值以直接消除无关知识。该方法受到旁路抑制的启发, 允许特定神经元的抑制为其他功能神经元提供选择性控制。通过这种抑制机制, InA 在文本分类和问答任务中在 *BERT-large*、*RoBERTa-large* 和 *DeBERTa-large* 等数据集上, 实现了与其他微调方法相比具有竞争力甚至更优的性能。

Fine-tuning pre-trained language models (LMs) may not always be the most practical approach for downstream tasks. While adaptation fine-tuning methods have shown promising results, a clearer explanation of their mechanisms and further inhibition of the transmission of information is needed. To address this, we propose an Inhibition Adaptation (InA) fine-tuning method that aims to reduce the number of added tunable weights and appropriately reweight knowledge derived from pre-trained LMs. The InA method involves (1) inserting a small trainable vector into each Transformer attention architecture and (2) setting a threshold to directly eliminate irrelevant knowledge. This approach draws inspiration from the shunting inhibition, which allows the inhibition of specific neurons to gate other functional neurons. With the inhibition mechanism, InA achieves competitive or even superior performance compared to other fine-tuning methods on *BERT-large*, *RoBERTa-large*, and *DeBERTa-large* for text classification and question-answering tasks.

主讲嘉宾

Keynote Speaker



Assoc. Prof. Leau Yu Beng

Universiti Malaysia Sabah, Malaysia

Yu-Beng Leau 是马来西亚沙巴大学计算机与信息学院的副教授。他获得了马来西亚沙巴大学的多媒体技术理学学士学位、马来西亚科技大学的信息安全计算机科学硕士学位，以及马来西亚科学大学的互联网基础设施安全博士学位。

刘教授在多个信息技术领域拥有广泛的专业知识，并持有多项专业认证。他是华为云计算认证 ICT 专业人员，并获得了多项华为云计算、存储和路由与交换的认证讲师资格。此外，他还拥有思科的认证，包括网络学院 CCNAv7 网络基础和网络操作副学员认证，以及一级和二级认证的 IPv6 网络工程师、IBM DB2 9 数据库与应用基础认证学术助理和 TRIZ 实践者认证（一级）。

目前，刘教授的研究兴趣集中在互联网基础设施安全和信息安全管理，特别专注于互联网协议版本 6（IPv6）、信息中心网络（ICN）、软件定义网络（SDN）和车载自组织网络（VANET）。他的学术研究为网络安全、网络架构以及物联网（IoT）、云计算和大数据等新兴技术的管理领域提供了宝贵的见解。

Yu-Beng Leau is an Associate Professor in Computer Science at Universiti Malaysia Sabah, Faculty of Computing and Informatics. He holds Bachelor of Science in Multimedia Technology from Universiti Malaysia Sabah, Master of Computer Science in Information Security from Universiti Teknologi Malaysia and Ph.D. in Internet Infrastructures Security from Universiti Sains Malaysia. His expertise spans a broad range of IT fields, underscored by an impressive array of certifications, including Huawei Certified ICT Professional in Cloud Computing and multiple Huawei Certified Academy Instructor credentials in Cloud Computing, Storage, and Routing & Switching. His qualifications also include Cisco certifications as a Network Academy CCNAv7 Introduction to Networks and CyberOps Associate, along with certifications as a Certified IPv6 Network Engineer (Level 1 & 2), Certified IBM Academic Associate in DB2 9 Database and Application Fundamentals and Certified TRIZ Practitioner – Level 1. Currently, his research and professional interests focus on Internet Infrastructures Security and Information Security Management with specializations in Internet Protocol Version 6 (IPv6), Information Centric Network (ICN), Software Defined Network (SDN) and Vehicular Ad-hoc Network (VANET). His work offers deep insights into the evolving fields of cybersecurity, network architectures and the management of emerging technologies such as the Internet of Things (IoT), Cloud Computing, and Big Data.



Assoc. Prof. Leau Yu Beng
Universiti Malaysia Sabah, Malaysia

题目/Speech Title

命名数据网络：一种未来互联网架构及其安全性

Named Data Networking: A Future Internet Architecture and its Security

摘要/Abstract

这份演示文稿探讨了物联网（IoT）的变革性影响及现有互联网架构面临的挑战，包括安全漏洞、移动性限制和可扩展性问题。它倡导信息中心网络（ICN）作为应对这些挑战的前瞻性解决方案。

演示重点介绍了命名数据网络（NDN），强调其从基于主机的寻址转向以内容为中心的检索。将讨论 NDN 的关键原则，如其以数据为中心的架构和命名数据对象的重要性，展示其如何在物联网环境中增强数据分发和检索。

演讲还将涉及 NDN 中的关键安全考虑，包括内容完整性、隐私和可用性。通过审视这些安全目标，演示旨在说明 NDN 如何有效减轻漏洞，为未来互联网提供一个具有弹性和用户中心的框架，以满足物联网不断变化的需求。

This presentation explores the transformative impact of the Internet of Things (IoT) and the challenges posed by existing Internet architectures, including security vulnerabilities, mobility constraints, and scalability issues. It advocates for Information Centric Networking (ICN) as a forward-looking solution to these challenges.

Focusing on Named-Data Networking (NDN), the presentation highlights its shift from host-based addressing to content-centric retrieval. Key principles of NDN such as its data-centric architecture and the significance of naming data objects, will be discussed, demonstrating how it enhances data distribution and retrieval in an IoT context.

The talk will also address critical security considerations in NDN, including content integrity, privacy, and availability. By examining these security goals, the presentation aims to illustrate how NDN can effectively mitigate vulnerabilities, providing a resilient and user-centric framework for the future Internet that meets the evolving demands of IoT.

邀请嘉宾

Invited Speaker



李景宇，高级工程师，华为技术有限公司

Senior Engineer. JingyuLi, Huawei Technologies Co., Ltd, China

深耕 AI 算法领域多年，具备丰富的实践经验。曾主导终端云教育中心题库构建及海外内容流推荐项目，在 NLP 与推荐算法方面积累了深厚经验。现任职于华为云云学堂，专注于 AI 算法研究，紧跟大模型等前沿技术趋势。当前研究重点为基于大模型，融合知识图谱与 RAG 技术，创新构建 AI 人工助手，以提升智能化应用水平。研究方向还包括大模型优化与 AI 助手智能化交互，致力于推动 AI 技术在教育领域的创新应用与发展。

He has been deeply engaged in the field of AI algorithms for many years, accumulating rich practical experience. He has previously led projects in constructing question banks for consumer cloud education centers and recommending overseas content streams, gaining profound expertise in NLP and recommendation algorithms. Currently serving at Huawei Cloud Academy, He is devoted to AI algorithm research, closely tracking the cutting-edge trends such as large models. His current research emphasis is on innovatively building AI personal assistants based on large models, integrating knowledge graphs and RAG technology, to enhance the level of intelligent applications. His research also encompasses large model optimization and intelligent interaction of AI assistants, striving to promote the innovative application and development of AI technology in the field of education.

题目/Speech Title

AI 技术在教育领域的应用探索

The application of AI technology in the field of education

摘要/Abstract

分享 AI 技术在教育领域中的两大应用：传统 AI 算法用于试题查重、相似试题检索、试题推荐及学科测评；大模型算法则通过知识图谱的 RAG 技术，提供试题助手和实验助手等功能，助力教育智能化发展，提升教学质量与效率。

Two applications of AI technology in the field of education are shared : traditional AI algorithm is used for duplicate checking, similar question retrieval, question recommendation and subject evaluation ; the large model algorithm provides the functions of test assistant and experimental assistant through the RAG technology of knowledge graph, which helps the intelligent development of education and improves the quality and efficiency of teaching.

邀请嘉宾

Invited Speaker



张瑞飞，高级工程师，麒麟软件有限公司

Senior Engineer. Roy Zhang, KylinSoft Co., Ltd, China

1995 年哈尔滨工业大学材料工程/计算机专业大学毕业，2017 年吉林大学工商管理专业硕士研究生毕业。曾任 Network Associates（迈克菲软件）技术总监、Cisco（思科）业务发展经理、VMWARE（威睿）渠道总监、VIZIONCORE 中国区 CEO、CA（冠群）销售总监、惠普销售总监、神州泰岳 AI 大数据副总裁、麒麟软件技服中心副总，有人工智能领域 7 项专利知识产权；现任区域营销中心副总、教育医疗行业纵队负责人，主持、参与国产操作系统教育产品、解决方案与技术服务等工作。

Roy Zhang graduated from Harbin University of Technology in 1995 with majors in materials engineering and computer, and graduated from Jilin University with MBA in 2017. He formerly worked as Technical Director of Network Associates Inc., Business Development Manager of Cisco Systems Inc., Channel Director of VMWARE Inc., CEO of VIZIONCORE Inc. in China, Sales Director of CA Technologies, Sales Director of China HP Co., Vice President of AI data Business of UltraPower Co., Technical Service Center Vice President of Kylin Software Co., etc, and he has 7 patent intellectual property rights in the field of artificial intelligence; He currently works for Kylin Software co. as vice president of regional marketing center and the head of education and medical industry team, hosting and participating in domestic operating system educational products, solutions and technical services.

题目/Speech Title

信创 AI 操作系统

AI operating system of Xinchuang

摘要/Abstract

基于目前生成式人工智能及强化学习推理的发展趋势，探讨 scaling law、端侧模型、集群优化、多智能体及领域数据对操作系统架构的影响，同时提出 AI 生态共建的可能性及实施方案，为下一代的智能操作系统建设提供依据和参考方向。

Based on the current development trend of generative artificial intelligence and reinforcement learning reasoning, the effects of scaling law, end-side model, cluster optimization, multi-agent and domain data on the operating system architecture are discussed. At the same time, the possibility and implementation scheme of AI ecological co-construction are proposed, which provides the basis and reference direction for the next generation of intelligent operating system construction.

口头报告

Oral Presentations

Parallel Session 1 / 分会场 1

口头报告 1 / Oral Presentation 1

张泉勇, 海南科技职业大学

Quanyong Zhang, Hainan Vocational University of Science and Technology

报告题目/Title: Intelligent Non-motor Vehicle Behavior Monitoring System Based on Convolutional Neural Network

口头报告 2 / Oral Presentation 2

张坚强, 常州大学

Jianqiang Zhang, Changzhou University

报告题目/Title: Research on Motion Target Positioning Using Smartphone Inertial Measurement Units

口头报告 3 / Oral Presentation 3

罗杨, 西华大学

Yang Luo, Xihua University

报告题目/Title: Design of an Intelligent Stroller Control System

口头报告 4 / Oral Presentation 4

高小龙, 海南科技职业大学

XiaoLong Gao, Hainan Vocational University of Science and Technology

报告题目/Title: Intelligent Timetable Based on WeChat Mini Program

口头报告 5 / Oral Presentation 5

姚鉴儒, 浙江工商大学

JianRu Yao, Zhejiang Gongshang University

报告题目/Title: Kunqu Opera popularity heat prediction analysis based on Spatio-Temporal Graph Convolution Neural Network

口头报告 6 / Oral Presentation 6

郑承浩天, 海南科技职业大学

Chenghaotian Zheng, Hainan Vocational University of Science and Technology

报告题目/Title: Visualization Analysis of Online Education Based on Vue Framework

口头报告 7 / Oral Presentation 7

马千里, 海南科技职业大学

Qianli Ma, Hainan Vocational University of Science and Technology

报告题目/Title: Design and Implementation of real-time road surface detection System Based on YOLOv8-GD Algorithm

口头报告 8 / Oral Presentation 8

朱红羽, 海南科技职业大学

Hongyu Zhu, Hainan Vocational University of Science and Technology

报告题目/**Title**: Visual analysis of ecological environment monitoring data based on Spring Boot

口头报告 9 / Oral Presentation 9

杨林菲, 澳门大学

Linfei Yang, University of Macao

报告题目/**Title**: Structural Health Monitoring Data Analysis Using Deep Learning Techniques

口头报告 10 / Oral Presentation 10

张华芯, 海南科技职业大学

Huaxin Zhang, Hainan Vocational University of Science and Technology

报告题目/**Title**: Research on the Academic Emotion Status of Vocational Undergraduate Industry Education Integration Classroom Based on Knowledge Visualization

口头报告 11 / Oral Presentation 11

谢易含, 海南科技职业大学

Yihan Xie, Hainan Vocational University of Science and Technology

报告题目/**Title**: Research on Classification and Detection Mechanism of Brain Tumor based on SE-VGG-16

口头报告 12 / Oral Presentation 12

盖伯, 长安大学

Gaber Ahmed Al-Absi, Chang'an University

报告题目/**Title**: GSTR-IDSFormer: Graph Spatial-Temporal Representation Embeddings for In-vehicle Network Intrusion Detection System based on Transformer Network

口头报告

Oral Presentations

Parallel Session 2 / 分会场 2

口头报告 1 / Oral Presentation 1

杨喆, 海南科技职业大学

Zhe Yang, Hainan Vocational University of Science and Technology

报告题目/**Title**: Design and implementation of batch file intelligent summary assistant based on AIGC+RPA

口头报告 2 / Oral Presentation 2

江宇闻, 广州理工大学

Yuwen Jiang, Guangzhou Institute of Science and Technology

报告题目/**Title**: Credit scoring model based on SyMProD-ENN and logistic regression

口头报告 3 / Oral Presentation 3

徐冰怡, 海南科技职业大学

Bingyi Xu, Hainan Vocational University of Science and Technology

报告题目/**Title**: Tomato Leaf Disease Detection and Management System Based on YOLOv5

口头报告 4 / Oral Presentation 4

陈愉, 集美大学

Yu Chen, Jimei University

报告题目/**Title**: CTRL: Collaborative Temporal Representation Learning for Wind Power Forecasting

口头报告 5 / Oral Presentation 5

韩昊轩, 海南科技职业大学

Haoxuan Han, Hainan Vocational University of Science and Technology

报告题目/**Title**: Design and Implementation of a New Retail Analysis System Based on Hadoop Technology

口头报告 6 / Oral Presentation 6

吴进, 华东师范大学

Jin Wu, East China Normal University

报告题目/**Title**: A Cognitive Diagnosis Framework for Student Ability Assessment Based on Meta-Continual Learning

口头报告 7 / Oral Presentation 7

熊玉签, 海南科技职业大学

Yuqian Xiong, Hainan Vocational University of Science and Technology

报告题目/**Title**: RECD: A Platform of Automated Encrypted Certificate Distribution in Cinema LED Screen

口头报告 8 / Oral Presentation 8

姜睿, 海南科技职业大学

Rui Jiang, Hainan Vocational University of Science and Technology

报告题目/**Title**: The Design of a Wildlife Video Data Storage System Based on HBase

口头报告 9 / Oral Presentation 9

杨义, 副教授, 东华大学

Assoc. Prof. Yi Yang, Donghua University

报告题目/**Title**: Correlation Analysis of Soil Moisture Content and Environmental Factors Based on LoRa-RSSI

口头报告 10 / Oral Presentation 10

陈雪, 海南科技职业大学

Xue Chen, Hainan Vocational University of Science and Technology

报告题目/**Title**: Network Traffic Prediction Mechanism Based on Variational Mode Decomposition and GA-ELM

口头报告 11 / Oral Presentation 11

陈莎莎, 海南科技职业大学

Shasha Chen, Hainan Vocational University of Science and Technology

报告题目/**Title**: Visualizing and analyzing the impact of Chinese forests on the environment using a knowledge graph

口头报告 12 / Oral Presentation 12

杨大润, 海南科技职业大学

Darun Yang, Hainan Vocational University of Science and Technology

报告题目/**Title**: Regression analysis based on driving schools in Haikou

评选规则

Selection Rules

Best Oral Report / 最佳口头报告

为保证学术报告的质量以及营造良好的学术交流氛围，经 EITCE 2024 组委会商议决定，将对本次会议的口头报告环节开展“最佳口头报告”评比活动。

In order to ensure the quality of academic reports and create a good atmosphere for academic exchanges, the Organizing Committee of EITCE 2024 decided to conduct a "Best Oral Report" evaluation activity.

(1) 评分标准/ Marking Criterion

论文选题（1-5）、内容创新性（1-10）、口头表述能力（1-10）、英文表述（1-5）、解答表述（1-5）、演讲时长（1-5）

Thesis topic selection(1-5), Content innovation(1-10), Oral expression ability(1-10), English expression(1-10), Answer expression(1-5), Duration of the speech(1-5)

(2) Award Settings and Instructions（奖项设置及评选说明）

- There will be 2 of the best report awards for each Oral Session, which will be awarded as a certificate of honor and bonus.
- All Offline oral presentation will take part in the selection of the best report.
- Judges will grade according to the standards, and the top two will be awarded according to the total score.
- 每个分会场将设置 2 位最佳报告奖，奖励为荣誉证书+奖金。
- 线下口头报告者都可参与本次的最佳报告评选。
- 由评委老师按标准进行评分，最后按总分排名最高的 2 位获奖。

Best Poster / 最佳海报展示

所有展出的论文海报均可参与评选。

All paper posters on display can participate in the selection.

评选规则 / Selection Rules

投票评选：“最佳海报展示奖”将由所有参会者进行投票，票高者得。

投票时间：10 月 19 日会议进行时的茶歇时间（含主会场及分会场）。

领取票处：请每位参会者在茶歇开始之后到签到处领取投票的贴纸。

投票规则：每人只允许投一票，且投一次。

Voting selection: 'Best Poster Display Award' will be voted by all participants, and the highest vote will be obtained.

Voting time: Break time during the meeting on October 19.

Where to collect your tickets : Please to pick up the voting ticket at the registration area during the tea break.

Voting rules: Each person is allowed to vote only once.

Conference Contact

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