



浙江大学  
ZHEJIANG UNIVERSITY



ZJU-UIUC INSTITUTE  
Zhejiang University University of Illinois Urbana-Champaign Institute  
浙江大学伊利诺伊大学厄巴纳-香槟校区联合学院

# 2023 ZJUI 未来大会

暨第一期鹃湖国际院士大讲堂

FUTURE READY: ZJUI ENGINEERING SYMPOSIUM  
& JUANHU INTERNATIONAL ACADEMICIAN LECTURE HALL

# 会议手册

CONFERENCE PROGRAM

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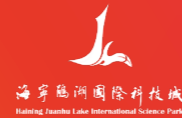
MAY, 2023  
HAINING, ZHEJIANG

2023年5月  
浙江·海宁

### 主办及技术支持单位

Organizers and Technical Co-Sponsors

- 浙江大学伊利诺伊大学厄巴纳香槟校区联合学院
- The Zhejiang University-University of Illinois Urbana-Champaign Institute
- 海宁鹃湖国际科技城管理委员会
- Haining Juanhu Lake Interntional Science Park



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- PILOTD Automotive
- UIUC上海办公室
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Shanghai Office

### 会议直播

Livestream



视频直播二维码



图片直播二维码



# 1.大会简介 OVERVIEW

溯本求源，圆生万物；和谐共生，共筑未来。2023年ZJUI未来大会(Future Ready: ZJUI Engineering Symposium)暨第一期鹃湖国际院士大讲堂活动旨在推动工程科技合作与创新，以工程科技进步和创新推动产业和经济社会发展，培育未来科技发展新动能，为全球工程领域的融合创新发展构筑新生态。大会以“工程创新塑造人类未来”为主题，聚焦可持续智慧城市、人工智能前沿技术等环节，汇聚全球工程科技领域学术界和产业界代表。

工程创新塑造人类未来，未来科技造福人类生活。诚邀您共同探索全球工程科技最新发展和成就，以工程创新谋发展，以实干笃行塑未来！智慧、和谐、绿色的未来，由你我共同创造！

Tracing back to the source creates all the thing, harmonious coexistence builds the future together. The "Future Ready: ZJUI Engineering Symposium" & Juanhu International Academician Lecture Hall aim to promote engineering technology cooperation and innovation to enhance industrial and social development, cultivate new driving forces for future technological development, and build a new ecosystem for the integrated and innovative development of the global engineering field. With the theme of "Engineering Innovation Shaping the Future of Humanity," the symposium focuses on sustainable smart cities, cutting-edge technologies in artificial intelligence, etc. Representatives from academia and industry in the global engineering and technology field will attend and exchange ideas around the theme.

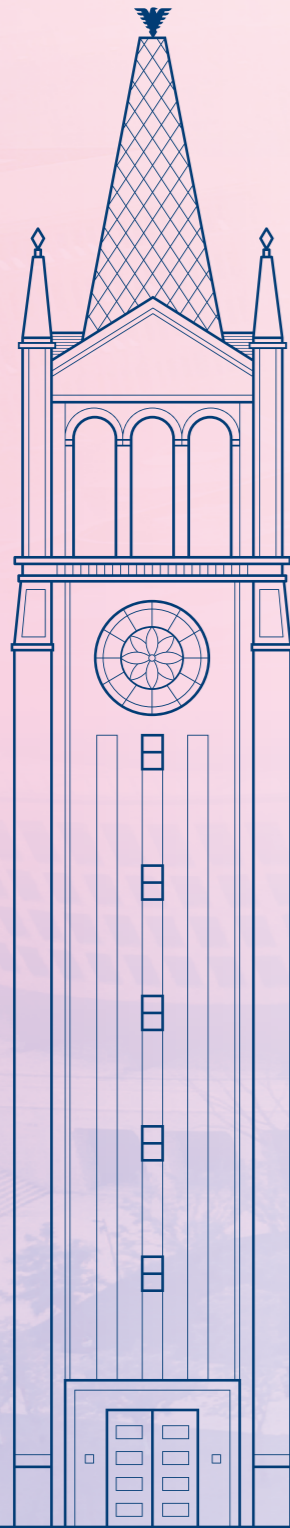
Engineering innovation shapes the future of humanity, and future technology benefits human life. We sincerely invite you to explore the latest developments and achievements in global engineering technology, seek development through engineering innovation, and shape the future with practical work and dedication! We can create a smart, harmonious, and green future together!

# 2.大会议程 PROGRAM

|   |   |                      |
|---|---|----------------------|
| 8:30-9:00                                       | 报到/Registration   | 多功能厅/Multimedia Hall |
| 开幕式Opening Ceremony 主持/Chair: 李德兹 DER-HORNG LEE |   |                      |
| 9:00-9:10                                       | 欢迎致辞/Opening Remarks  |                      |
| 9:10-9:13                                       | 鹃湖国际院士大讲堂启动仪式<br>Launching Ceremony of the Juanhu International Academician Lecture Hall  |                      |
| 9:13-9:18                                       | 光数实验室开幕仪式<br>Unveiling Ceremony of the Smart Urban Future Laboratory  |                      |
| 9:18-9:20                                       | 可持续智慧宜居城市联盟揭牌仪式<br>Unveiling Ceremony of the Sustainable Smart Livable Cities Alliance  |                      |
| 9:20-9:22                                       | 浙江省可持续智慧宜居城市国际科技合作基地揭牌仪式<br>Unveiling Ceremony of Zhejiang International Science and Technology Collaboration Centre for Sustainable Smart Livable Cities   |                      |
| 9:22-9:30                                       | 聘任仪式 Appointment Ceremony<br>· 浙江大学伊利诺伊大学厄巴纳香槟校区联合学院人才培养指导委员会委员聘任仪式<br>Appointment Ceremony of Talent Cultivation Steering Committee Members of the Zhejiang University-University of Illinois Urbana-Champaign Institute<br>· 光数实验室学术委员会委员聘任仪式<br>Appointment Ceremony of Academic Affairs Committee Members<br>· 海宁鹃湖科创湖区顾问聘任仪式<br>Appointment Ceremony of Haining Juanhu Lake Science and Technology Innovation Area consultants |                      |

|  |   |                       |
|--|---|-----------------------|
| 9:30-9:32  | 海宁潮城英才月发布仪式<br>Release Ceremony of Haining Talents Month  |                       |
| 9:32-9:36  | 鹃湖科技城、光数实验室、东风悦享研究院签约仪式<br>Signing Ceremony of Haining Juanhu Lake Interntional Science Park -Smart Urban Future Laboratory-Dongfeng Motor Research Institute |                       |
| 9:36-9:40  | 光数实验室、东风悦享研究中心签约仪式<br>Signing Ceremony of Smart Urban Future Laboratory-Dongfeng Motor Research Center  |                       |
| 9:40-10:00   | 合影/茶歇 Group Photo/ Tea Break  |                       |
| 10:00-10:30  | 我国超特大城市发展规模及结构研究<br>Research on the Development Scale and Structure of Megalopolis in China   | 傅志寰<br>ZHIHUAN FU     |
| 10:30-11:00  | 智慧社会数智化治理技术与应用创新<br>Digi-smart Governance Technology and Innovative Applications for Intelligent Societies  | 陈晓红<br>XIAOHONG CHEN  |
| <b>Technical Session I:</b><br>绿色未来Green Future——可持续智慧城市Sustainable Smart City<br>主持/Chair: 胡隽 SIMON HU<br>地点/Venue: 西讲堂102 Lecture Theatre West 102                       |   |                       |
| 13:30-14:15  | 面向未来城市的地面车辆交通解决方案<br>Ground Vehicle Transportation Solutions for Future Cities  | 陈赣<br>GAN CHEN        |
| 14:15-14:55  | 智能网联交通安全研究<br>Traffic Safety Research for Intelligent and Connected Transportation Systems  | 黄合来<br>HELAI HUANG    |
| 14:55-15:35  | 面向未来交通发展的数字道路技术与应用<br>Digital Road Technology and Applications for Future Transportation Development  | 张伟<br>WEI ZHANG       |
| 15:35-15:45  | 茶歇 Tea Break  |                       |
| 15:45-16:30  | 公共交通枢纽的共乘拼车调度优化<br>Optimization of Ride-Sharing from Public Transportation Hub  | 金建钢<br>JIANGANG JIN   |
| 16:30-17:00  | 智慧城市网约共享出行管理<br>On-Demand Shared Mobility Management for Smart Cities   | 陈喜群<br>XIQU CHEN      |
| <b>Technical Session II:</b><br>智慧未来Smart Future——人工智能前沿技术Technologies in Artificial Intelligence<br>主持/Chair: 王宏伟 HONGWEI WANG<br>地点Venue: 东讲堂102Lecture Theatre East 102 |   |                       |
| 13:30-14:15  | 产业AI关键技术与跨行业实践<br>AI for Industries: Key technologies and Best Practices from Alibaba Cloud   | 张磊<br>LEI ZHANG       |
| 14:15-14:55  | 基于注意力机制的视线跟踪及其在空间人机交互中的应用<br>Gaze Tracking Based on Attention Mechanism and Its Application in Space Human-robot Interaction                                  | 琚兆杰<br>ZHAOJIE JU     |
| 14:55-15:35  | 内容的可计算性和生成式内容 (AIGC) 的可能<br>The Computability of Narrative and the Possibility of AI Generated Content (AIGC)   | 王喆<br>STEVE WANG      |
| 15:35-15:45  | 茶歇 Tea Break  |                       |
| 15:45-16:30  | 自动驾驶仿真前沿技术解析<br>Analysis of Cutting-Edge Technologies in Automated Driving Simulation   | 曹鹏<br>PENG CAO        |
| 16:30-17:00  | 以人为本的机器人技术研究——面向生物医学与医疗应用<br>Human-Centric Robots for Biomedical and Healthcare Applications  | 杨量景<br>LIANGJING YANG |

### 3.特邀嘉宾 SPECIAL INVITED GUESTS



傅志寰 ZHIHUAN FU

傅志寰，铁路工程与管理专家，主要从事铁路、节能及综合交通运输研究。1938年04月11日出生于黑龙江省哈尔滨市。1961年毕业于莫斯科铁道学院，获学士学位。2001年当选中国工程院院士。

FU Zhihuan, an academican of the Chinese Academy of Engineering, is an expert in railway engineering and management, mainly engaged in railway, energy conservation and comprehensive transportation research. Born in Harbin, Heilongjiang Province on April 11, 1938, he graduated from Moscow State University of Railway Transport in 1961 with a bachelor's degree. In 2001, he was elected as an Academican of the Chinese Academy of Engineering.



卢春房 CHUNFANG LU

卢春房，中国工程院院士，铁路工程技术和专家。曾担任青藏铁路、京沪高铁建设总指挥部指挥长。现任中国铁道学会理事长，中国工程院工程管理学部主任。主持高铁建设和科技攻关工作多年，创立高铁建设标准化管理模式和动态施工组织方法；组织建立高铁技术研发和试验验证体系；研发CRTSIII型轨道板，在全国高铁大规模使用，获发明专利三项；组织研制“复兴号”动车组，实现自主化、简统化。获得国家科技进步奖特等奖一次，编写出版《铁路建设项目标准化管理》、《中国高速铁路》、《高速铁路工程质量系统管理》等著作。

LU Chunfang, an academican of the Chinese Academy of Engineering, expert in railway engineering technology and management. Formerly served as the Commander in Chief of the Construction Headquarters of the Qinghai Tibet Railway and the Beijing Shanghai High Speed Railway. He is currently the chairman of the China Railway Society and the Director of the Engineering Management Academic Division of the Chinese Academy of Engineering. He has been in charge of high-speed rail construction and technology research for many years and has established a standardized management model and dynamic construction organization method for high-speed rail construction. He organized the establishment of a high-speed rail technology research and development and experimental verification system and conducted research and development of CRTS III track board, which has been widely used on high-speed railways nationwide and has obtained three invention patents. He organized the development of the Fuxing bullet train, achieving autonomy and simplification. He received special prize for National Scientific and Technological Progress and authored and published works such as "Standardized Management of Railway Construction Projects", and "China High Speed Railway".



陈晓红 XIAOHONG CHEN

陈晓红，中国工程院院士，第十三、第十四届全国政协委员。我国管理科学与工程、工程管理及数据智能领域的著名专家。现任湖南工商大学党委书记、湘江实验室主任、中南大学商学院名誉院长、中国工程院工程管理学部常委、国家自然科学基金委员会委员、国务院学位委员会管理科学与工程学科评议组召集人。获得国家科技进步二等奖、复旦管理学杰出贡献奖等奖励18项，多年入选“全球高被引科学家”，获国家发明专利授权60余项。

CHEN Xiaohong, an academican of the Chinese Academy of Engineering, expert in Management Science and Engineering Management, Member of National Committee of the Chinese People's Political Consultative Conference, Secretary of the Party Committee of Hunan University of Commerce, Director of Xiangjiang Laboratory, Honorary Dean of Business School of Central South University, Member of the Standing Committee of the Engineering Management Academic Division of the Chinese Academy of Engineering. Academican Chen currently serves as a committee member of the National Natural Science Foundation of China, a committee member of Discipline Assessment Group of Degree Committee of State Council. She has obtained 18 national and ministerial (provincial) awards of scientific research such as second prize for National Scientific and Technological Progress and Fudan Management Excellence Award. For many years, she has been elected on the list of "Global Highly Cited Scientists" and has been granted over 60 National Invention Patents.

# 参会嘉宾 INVITED GUESTS

## 校区领导

### Leadership of the International Campus, ZJU



何莲珍  
LIANZHEN HE

浙江大学副校长、国际联合学院（海宁国际校区）党委书记  
Vice President of ZJU, Secretary of the Communist Party Committee of International Campus, ZJU



屈利娟  
LIJUAN QU

国际联合学院（海宁国际校区）党委常务副书记、副院长  
Executive Deputy Secretary of the Communist Party Committee of International Campus, ZJU, Vice Dean



王玉芬  
YUFEN WANG

国际联合学院（海宁国际校区）党委副书记、纪委书记  
Deputy Secretary of the Communist Party Committee of International Campus, ZJU



吴健  
JIAN WU

国际联合学院（海宁国际校区）副院长  
Vice Dean of International Campus, ZJU



金建铭  
JIAN-MING JIN

ZJU执行院长  
Executive Dean of ZJU

金建铭，ZJU执行院长。他于1989年获得密歇根大学安娜堡分校电气工程博士学位。他于1993年加入伊利诺伊大学（UIUC）并任教至今，是UIUC工学院电气与计算机工程系的 Y. T. Lo 首席教授，任电磁实验室和计算电磁中心主任。他在国际著名期刊发表论文280余篇，撰写书籍章节22章。他还著有专著《电磁学中的有限元方法》《磁共振成像中的电磁分析和设计》《电磁场的理论和计算》，并合著了《特殊函数的计算》等专著。他目前的研究兴趣包括计算电磁学、多物理场建模、散射和天线分析、电磁兼容性、高频电路建模和分析、生物电磁学以及磁共振成像等。他曾在2002年获选ISI最高被引者之一，他是IEEE会士、美国光学学会（OSA）会士、电磁科学院和应用计算电磁学协会（ACES）会士。

Prof. Jian-Ming Jin, Executive Dean of ZJU, received his Ph.D. degree in electrical engineering from the University of Michigan, Ann Arbor, in 1989. He joined the University of Illinois at Urbana-Champaign in 1993 and is currently the Y. T. Lo Chair Professor with the Department of Electrical and Computer Engineering and the Director with the Electromagnetics Laboratory and Center for Computational Electromagnetics. He has authored and coauthored more than 280 papers in refereed journals and 22 book chapters. He has also authored The Finite Element Method in Electromagnetics, Electromagnetic Analysis and Design in Magnetic Resonance Imaging, Theory and Computation of Electromagnetic Fields, and coauthored Computation of Special Functions, etc. His current research interests include computational electromagnetics, multiphysics modeling, scattering and antenna analysis, electromagnetic compatibility, high-frequency circuit modeling and analysis, bioelectromagnetics, and magnetic resonance imaging. He was elected by the ISI as one of the world's most cited authors in 2002, and is also a Fellow of IEEE, the Optical Society of America (OSA), Electromagnetics Academy, and Applied Computational Electromagnetics Society (ACES).



马皓  
HAO MA

ZJU副院长  
Vice Dean of ZJU

马皓，ZJU副院长，浙江大学电气工程学院教授，博士生导师，校友分会副会长。担任中国电源学会副理事长、学术工作委员会主任、组织工作委员会委员，浙江省电源学会副理事长、秘书长，浙江省科协第九、十届委员会委员等职务。浙江大学电气工程学院副院长（2013-2017）。IEEE工业电子学会执委会委员（2014-2015）。担任Journal of Power Electronics (JPE)等国际学术期刊的Associate Editor。担任IEEE PEAS 2021等国际学术会议的技术程序委员会主席。获国家级教学成果奖二等奖、教育部技术发明奖一等奖、教育部科技进步二等奖、教育部提名国家科学技术奖自然科学奖二等奖等奖项。主要研究内容包括电力电子技术及其应用、电力电子先进控制技术、电力电子系统故障诊断理论和方法、新型高效功率变换拓扑与控制技术、电力电子系统网络控制技术、逆变器无线并联技术、电能非接触传输技术、电动汽车中电力电子技术等。

Prof. Hao MA, Vice Dean of ZJU, Professor and Doctoral supervisor of college of electrical engineering, Zhejiang University. Dr. Ma was served as Vice Dean of college of electrical engineering, Zhejiang University (2013-2017). Dr. Ma is the Vice President of China Power Supply Society, Director of the Academic Committee, and Deputy Director of the Organization Committee, Vice President and Secretary-general of Power Supply Society of Zhejiang Province. Dr. Ma is the AdCom member of IEEE Industrial Electronics Society (2014-2015), Associate Editor of International academic journals such as Journal of Power Electronics (JPE), Technical Program Chair of international academic conferences such as IEEE PEAS 2021. His research interests include Advanced Control in Power Electronics, Wireless Power Transfer, Fault Diagnosis of Power Electronic Circuits and Systems, and Application of Power Electronics.



王宏伟  
HONGWEI WANG

ZJU副院长  
Vice Dean of ZJU

王宏伟，ZJU副院长，长聘教授，博士生导师，正高级工程师，浙江省特聘专家。加入浙江大学前，王教授在英国朴茨茅斯大学工学院任职永久职位副教授并独立领导研究团队，至今已指导毕业博士、硕士生近30人（一人获得国家“优秀自费留学奖”）；任职朴茨茅斯大学之前，分别在浙江大学、清华大学和剑桥大学获得工学学士、硕士和博士学位。近年来主持和参加国家重点研发计划、自然科学基金、航天重点实验室基金、EPSRC等中英大型科研项目10余项。研究成果成功应用于工业系统软件的研发，涉及能源、汽车、航天等多个领域的人工智能技术应用研究，目前和中国航天、中国核电、中国华电、阿里、吉利等大型企业建立项目合作，曾获得“吴文俊人工智能奖”等重要科研奖励。发表学术论文120余篇。

Prof. Hongwei WANG, Vice Dean of ZJU, is a tenured professor at ZJU and a chartered senior engineer. Prior to joining Zhejiang University, he was a senior lecturer and center director at the University of Portsmouth, UK. He has successfully supervised near 30 graduate students. Prof. Wang got his bachelor's degree from Zhejiang University, China, his master degree from Tsinghua University, China, and his PhD degree from the University of Cambridge, UK, respectively. Prof. Wang has received continuous research grants from EPSRC, NSFC, Key Project of the S&T Ministry, Zhejiang Natural Science Foundation, etc. He is leading the joint research center between Zhejiang University and UIUC on flexible manufacturing. His research outcomes have underpinned the development of industrial software systems in different areas, which have led to the winning of several important awards and honors such as the Wuwenjun AI award. He has published over 120 papers in well-established journals and conferences.



李德纮  
DER-HORNG LEE

ZJU院长  
新加坡工程院院士  
Dean of ZJU, Fellow of Academy of Engineering Singapore

李德纮，新加坡工程院院士，浙江省鲲鹏行动计划支持专家，浙江大学求是讲席教授，浙江大学-伊利诺伊大学联合学院院长，美国伊利诺伊大学博士，新加坡工程院执行委员会委员、交通学部主任。于2021年加入浙江大学之前，李院士为新加坡国立大学土木暨环境工程学系终身长聘教授，新加坡国立大学校务委员。他于2002年被美国麻省理工学院《科技评论》杂志评选为年度“全球35岁以下科技创新35人，TR35”，名列美国斯坦福大学所发布的全球前2%顶尖科学家，以及爱思唯尔中国高被引学者榜单。根据谷歌学术数据库的检索结果，李德纮院士在海事运输领域排名第一，港口物流、公共交通、城市出行等领域排名第三，交通政策领域排名第五。李院士的研究集中于智慧港航物流系统，海事运输系统，城市出行系统，城市轨道交通系统，交通规划与政策等。在大型集装箱港物流作业、城市轨道交通智能化、高通达自主交通系统、高信度交通仿真等领域做出了高质量的学术贡献。作为全职在华工作的外国院士，李德纮院士在2019年10月于北京受到国家主席习近平的接见。

Lee Der-Horng is an academician of the Singapore Academy of Engineering and a supported expert of the Zhejiang Province Kunpeng Action Program. He is a Qiushi Chair Professor at Zhejiang University, and the Dean of the Zhejiang University-University of Illinois Urbana-Champaign Institute. He holds a Ph.D. from the University of Illinois. He is also an Executive Committee member of the Singapore Academy of Engineering, as well as the Leader of the Transportation Engineering Group. Before joining Zhejiang University in 2021, he was a tenured professor in the Department of Civil and Environmental Engineering at the National University of Singapore, and an elected member of the NUS Senate. In 2002, he was named one of the "Innovators Under 35" by MIT Technology Review and has been listed among "World's Top 2% Scientists" published by Stanford University. He has also been named as "Most Cited Chinese Researcher" by Elsevier. According to the Google Scholar database, Professor Lee ranks first in the field of maritime transportation, and third in the fields of port logistics, public transportation, and urban travel, and fifth in the field of transportation policy. Professor Lee's research focuses on smart port and shipping logistics systems, maritime transportation systems, urban mobility systems, urban rail transit systems, transportation planning and policy, etc. He has made prime academic contributions in the fields of large-scale container port logistics operations, intelligent urban rail transit, ultra-flex autonomous mobility system, and high-fidelity traffic simulation. As a foreign academician working full-time in China, Professor Lee was received by President Xi Jinping in Beijing in October 2019.



**陈喜群**  
XIQUN (MICHAEL) CHEN  
ZJU 副院长  
Vice Dean of ZJU

陈喜群，ZJU 副院长，浙江大学特聘教授，智能交通研究所所长，智慧交通浙江省工程研究中心副主任。研究方向包括交通运输管理、共享出行、智能交通系统，致力于大数据驱动的城市多模式交通管理与优化研究。担任WTC交通管理与控制学科主席，ASCE大中华分会理事，管理科学与工程学会理事，TRPartC编委，世界银行交通专家顾问。主持国家自然科学基金4项、国家重点研发计划课题1项。荣获国家优青、浙江省杰青、中国交通运输协会科技创新青年奖、IEEE ITSS最佳博士论文奖、中国智能交通协会科技奖二等奖，入选中国科协青托工程、浙江省千人计划。

Prof. Xiqun (Michael) Chen, Vice Dean of ZJU, is Tenured Professor of Zhejiang University, Director of Institute of Intelligent Transportation Systems, and Deputy Director of Zhejiang Provincial Engineering Research Center for Intelligent Transportation. Prof. Chen's research interests include shared mobility on demand, simulation-based optimization, transportation big data analytics, and intelligent transportation systems. He received the National Excellent Young Scholars Award of National Natural Science Foundation of China and Distinguished Young Scholars Award of Zhejiang Provincial Natural Science Foundation, and was an awardee of Young Elite Scientists Sponsorship Program by China Association for Science and Technology. Currently, he serves as the Chairman of Transportation Management and Control of World Transport Convention, Transportation Consultant for World Bank, Board Member of ASCE Greater China Section, Board Member of Society of Management Science and Engineering of China, Editorial Advisory Board Member of Transportation Research Part C: Emerging Technologies, and Senior Associate Editor of Digital Transportation and Safety. He received the Science and Technology Innovation Youth Award of China Communications and Transportation Association, Science and Technology Award of China Intelligent Transportation Systems Association, Best Ph.D. Dissertation Award of IEEE Intelligent Transportation Systems Society, and Best Paper Awards at seven international conferences.



**胡隽**  
SIMON HU  
ZJU 院长助理  
Assistant Dean of ZJU

胡隽，ZJU 院长助理，研究员，博士生导师。从事交通管理和决策系统、交通网络和环境优化、网联自动驾驶的建模和优化、城市交通大数据智能分析。多年来积累了丰富的理论研究成果和实践经验，承担国家自然科学基金委重点项目“基于大数据的城市交通本征获取与需求结构优化控制”课题1项，国家科技部“十三五”重点专项“车路协同系统要素耦合机理与协同优化方法”子课题1项，浙江省“尖兵”“领雁”研发攻关计划项目“多模式交通网络碳排放实时计算与智能调控关键技术与示范应用”1项。参与英国自然科学研究院的国际合作项目“基于城市交通和环境大数据的尾气排放调控技术研究”等10多项纵向课题，并发表国际杂志和会议文章80余篇，其中SCI/SSCI 期刊论文近40篇。目前担任国际学术期刊IEEE Transactions on Intelligent Vehicles和Frontiers in Future Transportation副主编以及IEEE Intelligent Transportation Systems Conference国际会议副主编、世界交通运输大会“交通环境和行为”和“交通网络管理与控制委员会”委员。

Prof. Simon Hu, Assistant Dean of ZJU. His main research interests lie in traffic management and decision-making systems, traffic network and environmental optimization, modeling and optimization of connected autonomous driving, and intelligent analysis of urban traffic big data. He has undertaken the key project of the National Natural Science Foundation of China, a sub project of the "13th Five Year Plan" key projects of the Ministry of Science and Technology, Zhejiang Province "leading goose" research and development project, and one of the research projects funded by the Royal Society of England. Also, he participated in more than 10 government-sponsored research projects, and published over 80 international journal papers and conference articles, including nearly 40 SCI/SSCI journal papers. Dr Hu is currently serving as Associate Editor for IEEE Transactions on Intelligent Vehicles, an editorial board member of Frontiers in Future Transportation, the Associate Editor of the IEEE Intelligent Transportation Systems Conference, and a member of the "Transportation Environment and Behavior" and "Transportation Network Management and Control Committee" of the World Transport Convention.

## 特邀嘉宾 Guest Speakers

(\*按笔划顺序排列 \*List in Chinese stroke order)



**王喆**  
STEVE WANG

王喆，连续创业者，内容科技独角兽特赞联合创始人。特赞为全球领先品牌提供内容体验的生产、管理、分发、分析的解决方案，助力品牌以内容驱动增长。王喆是中国知名企业数字化专家，AI专家，世界经济论坛“全球杰出青年”，上海产业菁英人才，36氪2022年X36Under36创业者，高山大学张守晟奖学金获得者。在特赞，王喆负责产品技术和业务运营，专注于营销科技及设计人工智能领域研究和产品开发，尤其关注AIGC技术能力探索和业务落地场景推动上，参与并牵头多个特赞与同济大学联合成立的设计人工智能实验室的课题研究和产业化推广，曾多次在营销科技大会、AIGC产业峰会研讨会、人工智能行业大会上分享设计与人工智能行业洞察。

Steve is a serial entrepreneur, the co-founder of Tezign, a Contech unicorn. Tezign provides solutions based on enterprise content workflow, connecting content production, management, distribution and analyzing, to help leading brands worldwide drive growth with content. Steve is a well-known digital expert, AI expert, World Economic Forum Global Shapers, Shanghai industry elite talent, 36 Kr 2022 X36Under36 entrepreneur, and recipient of Zhang Shousheng Scholarship at Gaoshan University. In Tezign, Steve is responsible for product technology and business operations, focusing on research and product development in the fields of martech and design artificial intelligence, with a particular focus on the exploration of AIGC technology capabilities and the promotion of business implementation scenarios. He has participated in and led various research and industrialization promotions at Tongji Tezign Design and Artificial Intelligence Lab. He has shared his insights on design and artificial intelligence industry at multiple martech conferences, AIGC industry summits, and AI industry conventions.



**朱政**  
ZHENG ZHU

朱政，百人计划研究员，博士生导师，土木工程学系系主任助理。研究领域为多模式交通系统规划设计、建模、仿真、调控和优化，以及交通系统的差异化智慧管控。致力运用概率、统计、随机过程等理论方法研究交通系统中出行行为机理分析、多模式交通流推演机制解析、城市交通差异化调控管控等问题，推动交通科学与数据科学的融合。荣获国家优秀青年基金项目（海外），主持香港研究资助局（RGC）面上项目（GRF）等，发表SCI/SSCI论文40余篇。担任华人海外交通协会（COTA）年会CICTP2022领域编委、Transportation Safety and Environment编委。

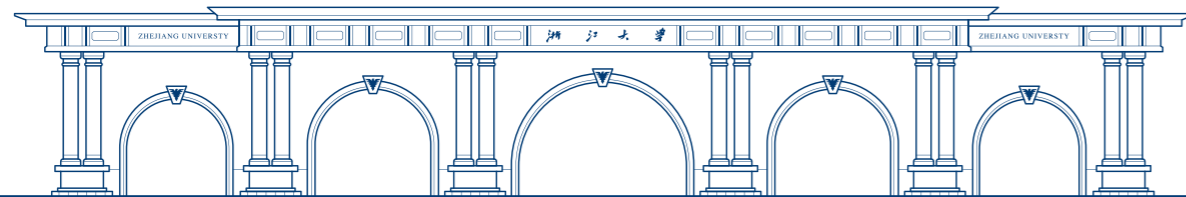
Zheng Zhu, "Hundred Talents Program" Professor, Assistant Department Head. Research interests include the planning, design, simulation, management/control and optimization of multi-modal transportation systems. Zheng has been focusing on the integration between transportation and data science; he has been adopting theories and methods from probability, statistics and stochastic process to solve transportation related research questions, such as analysis of travel behavior, spatial-temporal dynamics of multi-modal traffic flow, shared-mobility system optimization, and differentiated transportation control/management. He is the principal investigator of 1 Hong Kong Research Grants Committee General Research Fund, etc., and has published over 40 SCI papers in top transportation journals. Zheng serves as the area editor in the annual meeting of the Chinese Overseas Transportation Association (COTA) and an editorial board member in Transportation Safety and Environment.



**杨量景**  
LIANGJING YANG

杨量景，浙江大学伊利诺伊大学厄巴纳香槟校区联合学院研究员、助理教授。他于2008年与2011年获得新加坡国立大学机械工程学士与硕士学位。并于2014年获日本东京大学精密工程系的博士学位。其后陆续在日本东京大学，新加坡科技设计大学及美国麻省理工任职博后。现任职于。杨量景的研究领域是机器人学与计算机视觉。范围涉及与医疗相关的应用如医学影像重建与智能机械手术导航。其中包括外科手术机器人系统开发，微创手术导航技术研发与显微镜下图像引导机械自动化等跨领域工作。

Liangjing Yang is an assistant professor in Zhejiang University/ University of Illinois at Urbana-Champaign (ZJU-UIUC) Institute. Liangjing Yang received the B.Eng. and M.Eng. degrees in mechanical engineering from the National University of Singapore. He obtained the D.Eng. degree from the University of Tokyo before receiving a joint postdoctoral fellowship to work at the Singapore University of Technology and Design, and Massachusetts Institute of Technology. Liangjing Yang's research interests are in Robotics and Machine Vision primarily focusing on biomedical applications. His work on image mapping for 3D ultrasound-guided endoscopic procedures is featured in both engineering and medical journals. He also developed a robotic system for overlapping ablation of large liver tumor, which is published in a special issue on "Surgical and Interventional Medical Devices" of ASME/IEEE Transactions on Mechatronics. He holds two US patents one on a Robotic Surgical Training System, which was named "Best Innovation in Biomedical Application" in a challenge organized by National Instrument in 2011.





张伟  
WEI ZHANG

张伟，浙江中控信息产业股份有限公司高级副总裁、总工程师。长期深耕智慧城市建设领域，致力于智慧城市大数据平台技术研发和智慧城市顶层设计，在业内有广泛影响力。先后获得杭州科技进步奖二等奖、丽水市科学技术进步三等奖、中国智能交通协会科学技术二等奖、AIoT创新成果一等奖、电子行业优秀工程总承包二等奖、浙江省名牌、杭州市名牌、中国城市信息化技术成果应用奖，数字环境产品创新奖、鲁班奖、钱江杯、西湖杯等多项荣誉。拥有十余项发明专利、三十余项软件著作权并发表多篇专业论文/著作。打造了省级研发中心和重点企业研究院，先后主持过二十余项国家级、省部级科研项目，获得国家重点装备项目和省首台套工程等荣誉，在国内处于领先地位。

Mr. Zhang Wei has been involved in the field of smart city construction, focusing on the research of big data platforms for smart city and top-level design of smart city, with extensive influence in the industry. He has won numerous awards, including the Second Prize of Hangzhou Science and Technology Progress Award, the Third Prize of Lijiang Science and Technology Progress, the Second Prize of China Intelligent Transportation Association Science and Technology, the First Prize of AIoT Innovation Achievement, the Second Prize of Electronic Industry Excellent Engineering General Contracting, the Zhejiang Famous Brand, the Hangzhou Famous Brand, the China Urban Information Technology Achievement Application Award, the Digital Environment Product Innovation Award, the Luban Award, the Qianjiang Cup, the West Lake Cup and other honors. He has more than ten invention patents, more than thirty software copyrights, and has published several professional papers/works. He has established provincial-level R&D centers and key corporate research institutes, has presided over more than twenty national and provincial-level scientific research projects, and has won the National Key Equipment Projects and the First Provincial set of Engineering, in a leading position in China.



张磊  
LEI ZHANG

张磊，阿里云智能副总裁城市大脑首席科学家、交通物流行业线、产业智能技术研发总经理。张博士负责阿里云产业智能核心技术体系建设，城市大脑、交通物流、汽车与自动驾驶云、自然资源等行业的产品与解决方案研发以及统筹交通物流行业全面经营管理工作。加入阿里云之前，张博士任全球知名高校正教授、杰出讲席教授、全国智慧城市大数据中心主任、和交通研究院院长；在大数据驱动的城市规划、交通运输、产业数字化、和复杂系统分析等专业领域发表了多部专著和300多篇国际顶级期刊及顶会论文。

Dr. Zhang Lei is responsible for the construction of Alibaba Cloud's industrial intelligence core technology system, the research and development of products and solutions in industries such as city brain, transportation logistics, automotive and autonomous driving clouds, natural resources, and overall management of the transportation and logistics industry. Before joining Alibaba Cloud, Dr. Zhang served as a full professor, outstanding chair professor at a globally renowned university, director of the National Smart City Big Data Center, and director of the Transportation Research Institute. He published multiple monographs and over 300 international top journals and top-level papers in the fields of big data-driven urban planning, transportation, industrial digitization, and complex system analysis.



陈赣  
GAN CHEN

陈赣，东风汽车公司原副总工程师、东风汽车公司技术中心首席总工程师、东风悦享科技有限公司首席科学家。清华大学汽车工程系学士、硕士；英国伦敦大学帝国学院机械工程系博士。从事汽车整车开发和研究30多年，着重于车辆动力学、结构动力学，仿真分析。近10年，主要的工作是汽车技术战略发展研究。参与和主持制定了东风汽车公司技术中心十二五、十三五和十四五的技术发展规划，参与筹建两个对整个汽车行业有重大影响力的汽车新技术研发企业：北汽（北京）智能网联汽车研究院有限公司、中汽创智科技有限公司。

Dr. CHEN Gan is former Deputy Chief Engineer of Dongfeng Motor Corporation, Chief Chief Engineer of Dongfeng Motor Corporation Technology Center, Chief Scientist of Dongfeng Yuexiang Technology Co., Ltd. Bachelor and Master of Automotive Engineering Department of Tsinghua University; Doctor, Department of Mechanical Engineering, Imperial College, University of London, UK. Dr. CHEN Gan engaged in vehicle development and research for more than 30 years, focusing on vehicle dynamics, structural dynamics and simulation analysis. In the past 10 years, the main work is the research on the development of automotive technology strategy. He participated in and presided over the formulation of the 12th, 13th and 14th Five Year Technology Development Plans of Dongfeng Motor Corporation's Technology Center, and participated in the preparation of two automobile new technology R&D enterprises that have a significant impact on the entire automobile industry: China Intelligent and Connected Vehicles (Beijing) Research Institute Co.,Ltd. and China Automotive Innovation Corporation.



金建钢  
JIANGANG JIN

金建钢，上海交通大学船舶海洋与建筑工程学院教授、博士生导师。分别于清华大学和新加坡国立大学获得学士和博士学位。曾任新加坡-麻省理工学院研究与科技联盟研究助理。专注于大规模组合优化、整数规划和网络优化等运筹优化方法在交通和物流系统中的应用研究。在Transportation Science, Transportation Research Part A/B/C/E等期刊上发表40余篇SCI/SSCI期刊论文。主持4项国家自然科学基金项目。入选交通部交通运输青年科技英才、上海市启明星计划、上海市晨光计划。获美国运筹学与管理科学学会（INFORMS）铁路优化竞赛一等奖、新加坡国立大学校长奖。

Dr. Jiangang Jin is a Professor of the School of Naval Architecture, Ocean & Civil Engineering at Shanghai Jiao Tong University. He received the Bachelor's degree in civil engineering from Tsinghua University in 2009, and the Ph.D. degree in civil and environmental engineering from the National University of Singapore in 2013. His research interests lie in the application of large-scale modeling and optimization to transportation and logistics systems, such as container port operations, public transportation system optimization. He received the National Excellent Young Scholars Award of National Natural Science Foundation of China, the First Prize of INFORMS RAS Problem Solving Competition. He has published more than 40 referred papers in international journals and conferences, such as Transportation Science, Transportation Research Part B/C/E. He is serving as Area Editor for the journal of Computers & Industrial Engineering.



黄合来  
HELAI HUANG

黄合来，中南大学交通工程二级教授，智慧交通湖南省重点实验室主任，国际教育学院院长，“万人计划”国家科技创新领军人才。天津大学本科、硕士，新加坡国立大学博士，中佛罗里达大学博士后。研究方向为道路交通安全，担任AAP期刊主编，AMAR、TR-IP、《中国公路学报》、《交通信息与安全》等期刊副主编或编委，中国工程师联合会国际委员会副主任，世界交通大会（WTC）交通安全与环境学科主席，湖南湘江新区智能网联汽车产业链首席科学家等。主持4项国家自然科学基金项目及100余项交通研究和技术咨询项目，发表140余篇国际期刊论文，WoS H因子45。入选Clarivate全球高被引科学家、Elsevier中国高被引学者、斯坦福大学发布全球前2%顶尖科学家、湖南省科技创新领军人才、湖南省杰青等，获中国智能交通协会优秀科技创新领军人才奖。

Dr. Helai Huang is a senior professor of transportation engineering in Central South University (CSU). He is the founding director of Smart Transport Laboratory of Hunan Province and the dean of CSU School of International Education. He is the China Leading Talent of Technological Innovation of Ten-Thousands Talents Program. Dr. Huang holds B.E & M.S. degrees from Tianjin University, a PhD degree in transportation engineering from National University of Singapore, and worked as a post-doc at University of Central Florida. His research field is road traffic safety. Dr. Huang is the Editor-in-Chief of Accident Analysis and Prevention, AE of Transportation Research-I.P. and editorial board member of multiple journals including Analytic Method in Accident Research and China Journal of Highway and Transport. Dr. Huang is the vice-director of International collaboration committee, Chinese Society of Engineers (CSE), and committee chair of Transport Safety and Environment, World Transport Convention (WTC). Dr. Huang has accomplished as PI more than 100 research and consultant projects including 4 funded by NSF-China. Dr. Huang has authored/co-authored over 140 peer-reviewed research articles in renowned international journals with WoS H-index 45. Dr. Huang is listed in the Clarivate highly-cited Researchers, Elsevier China highly-cited researchers, top 2% scientists worldwide by Stanford University. He is the winner of outstanding talent award in China ITS.



曹鹏  
PENG CAO

曹鹏，沛岱汽车创始人、董事长，负责沛岱汽车的全球战略与技术研发。浙江省智能网联汽车产业技术联盟专家委员会委员，上海市第9批海外高层次人才创新创业计划专家。德国达姆施塔特工业大学工学博士，深耕自动驾驶仿真测试验证行业十余年，对辅助驾驶系统、自动驾驶系统、车载环境感知传感器等在环仿真建模有全面深入的研究。曹鹏博士拥有丰富的企业管理经验，带领沛岱汽车与国内外多家汽车、自动驾驶等企业、政府、高校建立合作伙伴关系，并获高新技术企业认证及多项知识产权认证，保障沛岱汽车在精准仿真领域的全球领先地位。

Dr. Cao Peng is the founder and chairman of PilotD Automotive, responsible for the company's global strategy and technology research and development. He is a member of Expert Committee of Zhejiang Intelligent Connected Vehicle Industry Technology Alliance, and an expert of the 9th batch of Overseas High-level Talent Innovation and Entrepreneurship Plan experts in Shanghai. He holds a Ph.D. in Engineering from TU Darmstadt and has over a decade of experience in the field of simulation-based test and validation for automated driving. He has conducted comprehensive and in-depth research on the simulation modeling of ADAS, HAD, vehicle environmental perception sensors, etc. Dr. Cao has extensive experience in business management. Under the leadership of him, PilotD Automotive has established partnerships with domestic and international enterprises in the automotive and automated driving industries, as well as governments and universities, and has obtained high-tech enterprise certification and multiple intellectual property certificates, ensuring PilotD Automotive's global leading position in the field of precise simulation.



琚兆杰  
ZHAOJIE JU

琚兆杰是英国朴茨茅斯大学机器学习和机器人方向教授、欧盟重点项目首席科学家、学校医疗和可穿戴机器人研究主任，以及IEEE SMC 英国朴茨茅斯分会主席。在著名期刊和国际会议上发表250余篇论文，其中SCI论文超100篇。曾获得过六项最佳论文奖和一项ICRA最佳AE奖。他的研究兴趣包括机器智能、模式识别及其在人机交互/协作、机器人技能学习，和医疗和可穿戴机器人中的应用。琚教授担任多个杂志编委，包括IEEE TRANSACTIONS ON CYBERNETICS、IEEE TRANSACTIONS ON NEUROL NETWORKS AND LEARNING SYSTEMS和IEEE TRANSACTIONS ON COGNITIVE AND DEVELOPMENTAL SYSTEMS等；JSPS Fellow和IEEE高级会员。

Zhaojie Ju is Chair in Machine Learning and Robotics at the University of Portsmouth, Principle Investigator of EU Interreg Project, Director of Healthcare and Wearable Robotics Research, and Chair of IEEE SMC Portsmouth Chapter. He has attracted over €10 million research fund as PI/Col and authored or coauthored over 250 publications in journals, book chapters, and conference proceedings (over 100 SCI-index papers). He has received six Best Paper Awards and one Best AE Award in ICRA2018. His research interests include machine intelligence, pattern recognition and their applications in human robot interaction/collaboration, robot skill learning and healthcare & wearable robotics. Prof. Ju is an Associate Editor of several journals, such as IEEE TRANSACTIONS ON CYBERNETICS, IEEE TRANSACTIONS ON NEUROL NETWORKS AND LEARNING SYSTEMS and IEEE TRANSACTIONS ON COGNITIVE AND DEVELOPMENTAL SYSTEMS. JSPS Fellow; IEEE Senior Member.

(\*按笔划顺序排列 \*List in Chinese stroke order)



## 4.会场地图 THE VENUE MAP

- **会议地点:** 浙江大学国际联合学院 (海宁国际校区)  
**Venue:** International Campus, Zhejiang University
- **地址:** 浙江省海宁市海州东路718号  
**Address:** 718 East Haizhou Rd., Haining, Zhejiang 314400, P.R. China

### 校园地图 Campus Map



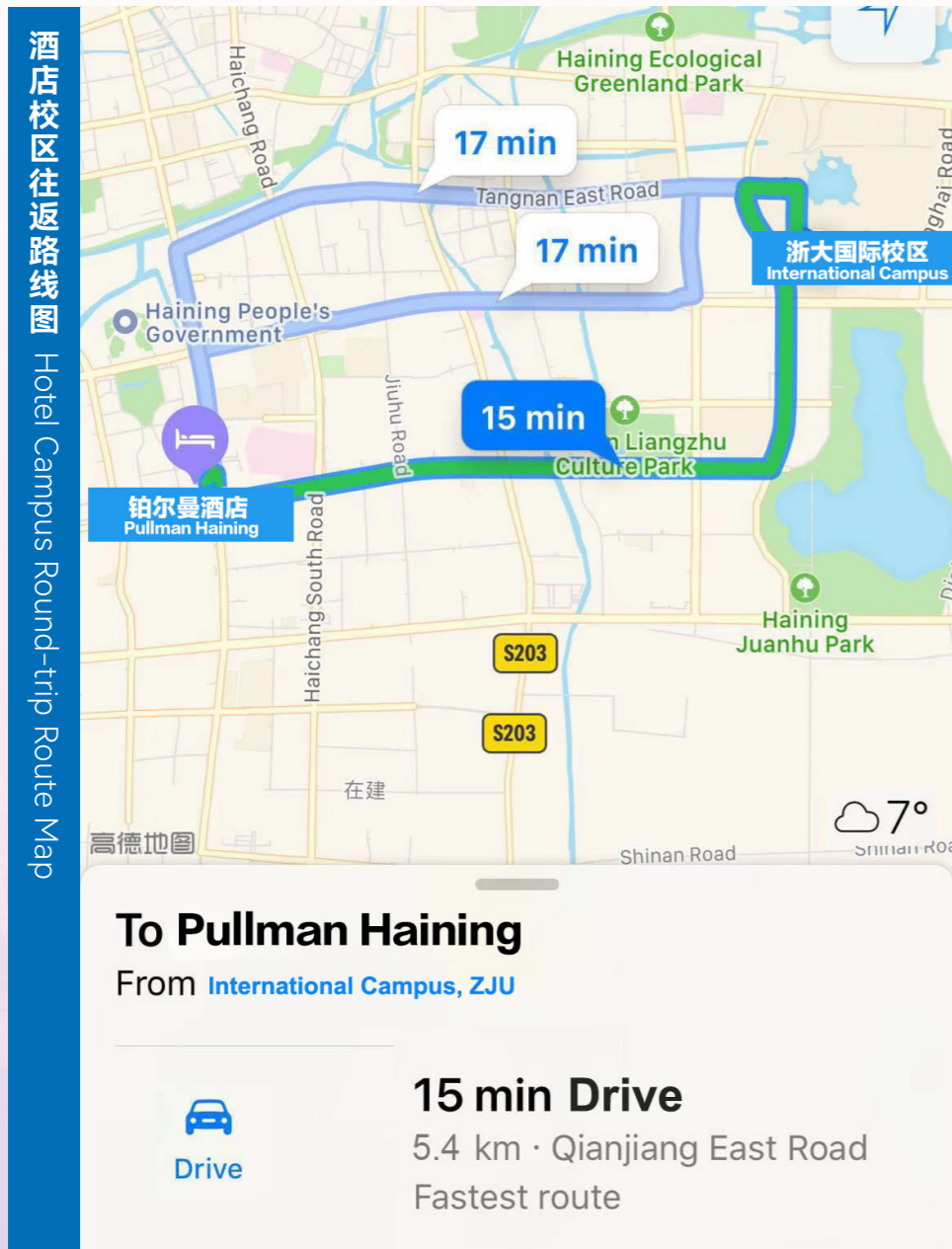
- 西讲堂 (建筑编号: 5) Lecture Theatre West (Building Number:5)
- 东讲堂 (建筑编号: 6) Lecture Theatre East (Building Number:6)
- 多功能厅 (建筑编号: 7) Multimedia Hall (Building Number:7)
- 食堂 (建筑编号: 16) Cafeteria (Building Number:16)
- 圆正餐厅 (建筑编号: 26) Yuanzheng Hotel Restaurant (Building Number:26)
- 光数实验室 (建筑编号: 1B) Smart Urban Future Laboratory (Building Number:1B)
- ZJUI大楼 (建筑编号: 1C) ZJUI Building (Building Number:1C)

○ 酒店交通 Accomodation&Transportation

海宁铂尔曼酒店 Pullman Haining

酒店地点: 浙江省海宁市文苑南路228号

Venue: No.228, South Wenyuan Rd., Haining, Zhejiang 314400, P.R. China



· 酒店距离会场约6.4公里, 驾车15分钟

The route is about 6.4 kilometers and takes 15 minutes to drive

## 5.大会须知 GUIDANCE

### 1.会场座位图 Seat Map

| 多功能厅座位表 |        |     |     |
|---------|--------|-----|-----|
| 舞台      |        |     |     |
| 第一排     | 9桌     | 18椅 |     |
| 第二排     | 9桌     | 18椅 |     |
| 第三排     | 9桌     | 18椅 |     |
| 第四排     | 9桌     | 18椅 | 嘉宾席 |
| 第五排     | 9桌     | 18椅 |     |
| 第六排     | 9桌     | 18椅 |     |
| 第七排     | 9桌     | 18椅 |     |
| 第八排     | 9桌     | 18椅 |     |
| 第九排     | 18椅    |     | 学生席 |
| 第十排     | 18椅    |     |     |
| 第十一排    | 18椅    |     |     |
| 第十二排    | 18椅    |     |     |
| 第十三排    | 18椅    |     |     |
| 第十四排    | 18椅    |     |     |
| 第十五排    | 媒体与工作席 | 18椅 |     |

### 2.联系人

大会期间遇有问题, 请及时与大会工作组联系。大会工作组负责人及联系电话如下:  
If you encounter any issues during the conference, please contact the following person :

· 会务文秘组负责人:  
金秀坊 18868105875

· Head of Secretary Group:  
JIN Xiufang(Echo) 18868105875

· 接待组负责人:  
张林 18675857110

· Head of Reception Group:  
ZHANG Lin 18675857110

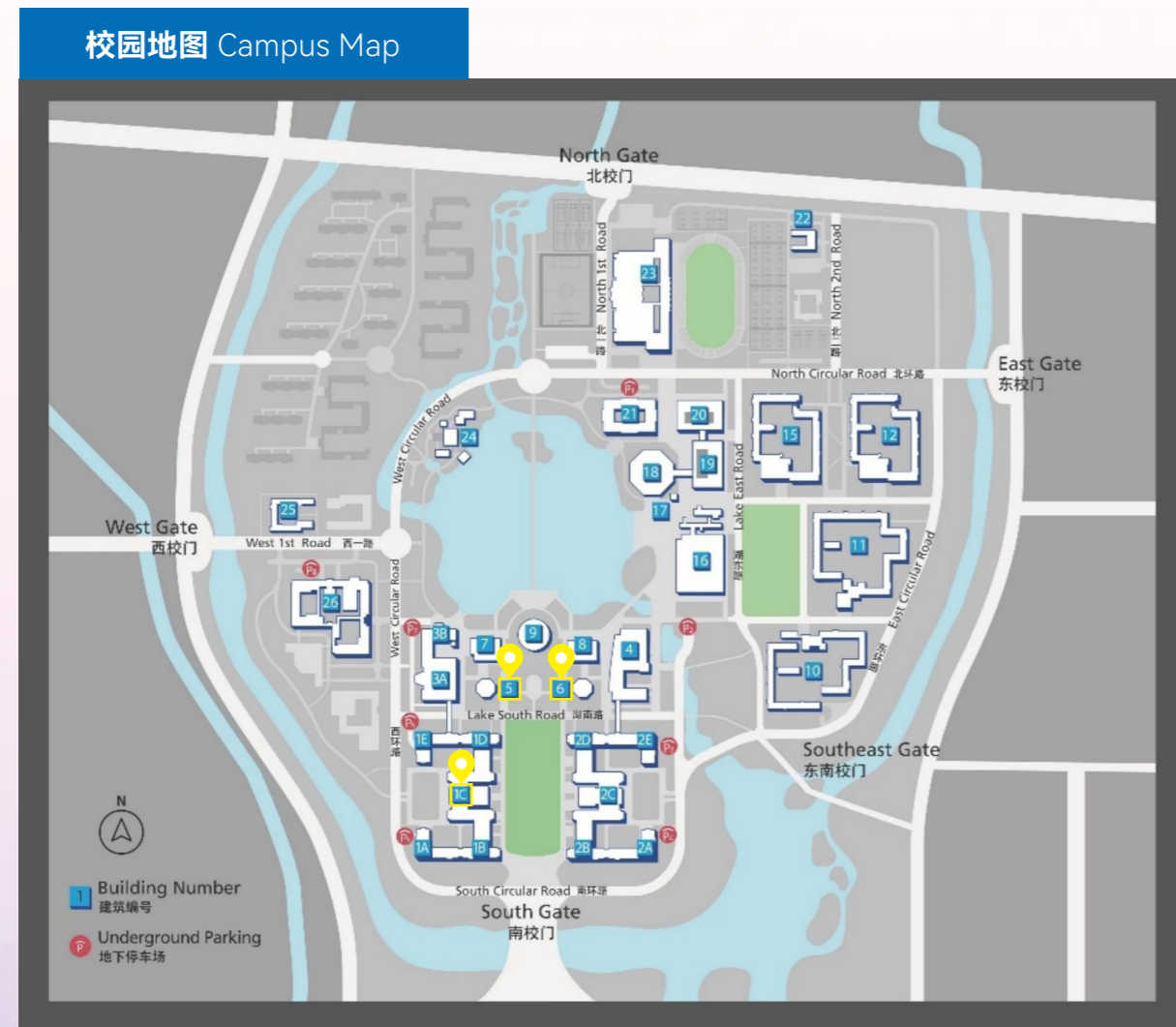
· 宣传组负责人:  
张旖 18957332101

· Head of the Publicity Group:  
ZHANG Yi 18957332101

### 3.休息室 Lounges

会议期间，与会人员可到以下场地午休休息。

During the meeting, please feel free to take a lunch break at the following venues.



- 西讲堂二楼教室 (建筑编号: 5)
- 东讲堂二楼教室 (建筑编号: 6)
- ZJUI大楼二楼 (建筑编号: 1C) 贵宾室

- Classrooms, 2nd floor, Lecture Theatre West (Building Number:5)
- Classrooms, 2nd floor, Lecture Theatre East (Building Number:6)
- VIP Room, 2nd Floor, ZJUI Building (Building Number:1C)

### 4.车辆安排 Transportation Arrangement

| 接驳路线<br>Route           | 发车时间<br>Departure Time | 上车地点<br>Departure Venue                                     | 联系人<br>Contact Person    |
|-------------------------|------------------------|---|--------------------------|
| 酒店—国际校区<br>Hotel—Campus | 08:20                  | 酒店门口<br>Hotel entrance                                      | 俞梦悦 Joyce<br>13757326966 |
| 国际校区—酒店<br>Campus—Hotel | 17:30                  | 西讲堂东侧道路<br>Road on the east side of<br>Lecture Theatre West |                          |