



2023 9<sup>th</sup> International Conference on  
Architectural, Civil and Hydraulic Engineering

第九届建筑、土木与水利工程国际学术会议

# 会议手册

CONFERENCE BROCHURE

October 14, 2023

Online Conference



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## 会议信息 *Conference Information*



- 会议简介 *About ICACHE 2023*
- 组织机构 *Organizations*
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***Part 1***

## 会议简介

### About ICACHE 2023

第九届建筑、土木与水利工程国际学术会议 (ICACHE 2023) 将于2023年10月14日举办线上会议, 由中国石油大学 (华东) 主办, 中国石油大学 (华东) 储运与建筑工程学院承办, 中国矿业大学 (北京)、山东科技大学、中山大学、中南大学、福建农林大学、东南大学、埃什拉高等教育学院、山东京博控股集团有限公司、青岛时代建筑设计院等高校、科研院所提供会议支持。会议旨在为从事建筑、土木与水利工程的专家学者、工程技术人员、技术研发人员提供一个共享科研成果和前沿技术, 了解学术发展趋势, 拓宽研究思路, 加强学术研究和探讨, 促进学术成果产业化合作的平台。大会诚邀国内外高校、科研机构专家、学者、企业界人士及其他相关人员参会交流。

As an annual conference held successfully in the past 8 years, 2023 9<sup>th</sup> International Conference on Architectural, Civil and Hydraulic Engineering (ICACHE 2023) will be held by China University of Petroleum (East China) on October 13-15, 2023 in Qingdao, China. ICACHE 2023 is hosted by China University of Petroleum (East China) and organized by College of Pipeline and Civil Engineering, China University of Petroleum (East China) and supported by China University of Mining & Technology, Beijing, Shandong University of Science and Technology, Sun Yat-sen University, Central South University, Fujian Agriculture and Forestry University, Southeast University, Eshragh Institute of Higher Education, Shandong Chambroad Holding Group Co., Ltd., Qingdao Times Design Co., Ltd.. The conference is an international forum for the presentation of technological advances and research results in the fields of architecture, civil and hydraulic engineering. The conference will bring together leading researchers, engineers and scientists in the domain of interest from around the world. We warmly welcome previous and prospected authors submit your new research papers to ICACHE 2023, and share the valuable experiences with the scientist and scholars around the world.

## 组织单位

### Organization

#### 主办单位

中国石油大学（华东）

#### 承办单位

中国石油大学（华东）储运与建筑工程学院

#### 协办单位

中国矿业大学（北京）

山东科技大学

中山大学

中南大学

福建农林大学

东南大学

埃什拉高等教育学院

山东京博控股集团有限公司

青岛时代建筑设计院

## 组织单位

### Organization

#### Host

China University of Petroleum (East China)

#### Organizer

College of Pipeline and Civil Engineering, China University of  
Petroleum (East China)

#### Supporters

China University of Mining & Technology, Beijing

Shandong University of Science and Technology

Zhejiang University

Southeast University

Sun Yat-sen University

Central South University

Fujian Agriculture and Forestry University

Southeast University

Eshragh Institute of Higher Education

Shandong Chambroad Holding Group Co., Ltd.

Qingdao Times Design Co., Ltd.

## 委员会

### Committee

#### 大会主席

张俊文, 教授, 中国矿业大学 (北京), 中国

#### 学术委员会主席

李大勇, 教授, 中国石油大学 (华东), 中国

#### 学术委员会委员

刘刚, 教授, 中国石油大学 (华东), 中国

罗小明, 教授, 中国石油大学 (华东), 中国

俞然刚, 教授, 中国石油大学 (华东), 中国

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张志强, 教授, 东南大学, 中国

管友海, 副教授, 中国石油大学 (华东), 中国

Yun Jia, 副教授, 里尔大学, 法国

江力强, 副教授, 中南大学, 中国

C. Venkata Siva Rama Prasad, 副教授, St.Peters Engineering  
College (Autonomous), 印度

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University, 伊朗

Abdollah Tabaroei, 助理教授, Eshragh Institute of Higher  
Education, 伊朗

Masoud Amelsakhi, 助理教授, Qom University of Technology

Muhammad Awais Hussain, 博士,

National Skills University Islamabad, 巴基斯坦

Dayang Zulaika Abang Hasbollah, 博士, Universiti Teknologi  
Malaysia, 马来西亚

## 委员会

### Committee

#### 组织委员会主席

张 玉，教授，东北大学，中国

#### 组织委员会委员

杨文东，教授，中国石油大学（华东），中国

李春宝，教授，中国石油大学（华东），中国

黄思凝，副教授，中国石油大学（华东），中国

张如林，副教授，中国石油大学（华东），中国

张连震，副教授，中国石油大学（华东），中国

陈 瑜，副教授，中山大学，中国

王永洪，副教授，青岛理工大学，中国

#### 出版主席

李大勇，教授，中国石油大学（北京），中国

张 玉，教授，东北大学，中国

栾雅琳，副教授，中国石油大学（华东），中国



## 委员会

### Committee

#### **Chairman**

Prof. Junwen Zhang, China University of Mining and Technology  
(Beijing), China

#### **Academic Committee Chair**

Prof. Dayong Li, China University of Petroleum (East China), China

#### **Academic Committee Members**

Prof. Gang Liu, China University of Petroleum (East China), China

Prof. Xiaoming Luo, China University of Petroleum (East China),  
China

Prof. Rengang Yu, China University of Petroleum (East China), China

Prof. Jing Li, China University of Petroleum (East China), China

Prof. Xudong Cheng, China University of Petroleum (East China),  
China

Prof. Zhiqiang Zhang, Southeast University, China

Assoc. Prof. Youhai Guan, China University of Petroleum (East  
China), China

Assoc. Prof. Yun Jia, Université de Lille, France

Assoc. Prof. Liqiang Jiang, Central South University, China

Assoc. Prof. Dr. C. Venkata Siva Rama Prasad, St. Peters Engineering  
College (Autonomous), India

Assoc. Prof. Amir Tarighat, Shahid Rajaei Teacher Training  
University, Iran

Asst. Prof. Dr. Abdollah Tabaroei, Eshragh Institute of Higher  
Education, Iran

Asst. Prof. Masoud Amelsakhi, Qom University of Technology, Iran

Dr. Muhammad Awais Hussain,  
National Skills University Islamabad, Pakistan

Dr. Dayang Zulaika Abang Hasbollah, Universiti Teknologi Malaysia,  
Malaysia

## 委员会

### Committee

#### **Organizing Committee Chair**

Prof. Yu Zhang, Northeastern University, China

#### **Organizing Committee Members**

Prof. Wendong Yang, China University of Petroleum (East China),  
China

Prof. Chunbao Li, China University of Petroleum (East China), China

Assoc. Prof. Sining Huang, China University of Petroleum (East  
China), China

Assoc. Prof. Rulin Zhang, China University of Petroleum (East China),  
China

Assoc. Prof. Lianzhen Zhang, China University of Petroleum (East  
China), China

Assoc. Prof. Yu Chen, Sun Yat-sen University, China

Assoc. Prof. Yonghong Wang, Qingdao University of Technology,  
China

#### **Publication Chairs**

Prof. Dayong Li, China University of Petroleum (East China), China

Prof. Yu Zhang, Northeastern University, China

Assoc. Prof. Yalin Luan, China University of Petroleum (East China),  
China

# 会议议程

## Agenda

<b>2023年10月14日</b> October 14, 2023 Zoom Room: 86577265127 Password: 231014	
09:00-09:10	<b>领导致辞</b> Opening Ceremony
<b>主讲报告</b> Keynote Speeches	
09:10-09:40	<b>张俊文, 教授, 中国矿业大学 (北京)</b> Prof. Junwen Zhang, China University of Mining and Technology (Beijing), China
09:40-09:45	<b>合影</b> Group Photo
09:45-10:15	<b>Mohamed A. Ismail, 教授, 北方工业大学伦敦布鲁内尔学院</b> Prof. Mohamed A. Ismail, NCUT - Brunel London University, Beijing, China
10:15-10:45	<b>张雨坤, 教授, 山东科技大学</b> Prof. Yukun Zhang, Shandong University of Science and Technology, China
10:45-11:15	<b>张玉, 教授, 东北大学</b> Prof. Yu Zhang, Northeastern University, China
11:15-11:45	<b>Hazem Samih Mohamed, 副教授, 福建农林大学</b> Assoc. Prof. Hazem Samih Mohamed, Fujian Agriculture and Forestry University, China
11:45-12:15	<b>栾雅琳, 副教授, 中国石油大学 (华东)</b> Assoc. Prof. Yalin Luan, China University of Petroleum (East China), China

## 会议议程

### Agenda

口头报告 Oral Presentation	
14:00-14:10	<b>王宇铮, 清华大学</b> Yuzheng Wang, Tsinghua University
14:10-14:20	<b>林跃忠, 山东科技大学</b> Yuezhong Lin, Shandong University of Science and Technology
14:20-14:30	<b>康智强, 沈阳建筑大学</b> Zhiqiang Kang, Shenyang Jianzhu University
14:30-14:40	<b>唐坚, 广东财经大学</b> Jian Tang, Guangdong University of Finance & Economics
14:40-14:50	<b>董建锋, 民航机场建设集团西南设计研究院有限公司</b> Jianfeng Dong, Southwest Design and Research Institute Co. Ltd, China Airport Construction Group Corporation
14:50-15:00	<b>陈熠昕, 重庆物康科技有限公司</b> Yixin Chen, Chongqing Wukang Technology Co., Ltd.
15:00-15:10	<b>李思源, 浙江海洋大学</b> Siyuan Li, Zhejiang Ocean University
15:10-15:20	<b>刘凌雪, 西华大学</b> Lingxue Liu, Xihua University
15:20-15:30	<b>佟文晶, 迪肯大学</b> Wenjing Tong, Deakin University
15:30-15:40	<b>余诗嘉, 西安理工大学</b> Shijia Yu, Xi'an University of Technology

## 会议议程

### Agenda

口头报告 Oral Presentation	
15:40-15:50	<b>林士为, 广西大学</b> Shiwei Lin, Guangxi University
15:50-16:00	<b>韦雨晨, 广西大学</b> Yuchen Wei, Guangxi University
16:00-16:10	<b>黄贵, 广西大学</b> Yuchen Wei, Guangxi University
16:10-16:20	<b>牛志伟, 山东科技大学</b> Zhiwei Niu, Shandong University of Science and Technology
16:20-16:30	<b>李明星, 山东理工大学</b> Mingxing Li, Shandong University of Technology

## **详细议程** *Detail Agenda*



- *主讲嘉宾* *Keynote Speaker*
- *口头报告* *Oral Presentation*
- *海报展示* *Poster Presentation*

## **Part 2**

## 主讲嘉宾

Keynote Speaker



张俊文, 教授, 中国矿业大学 (北京)

Prof. Junwen Zhang

China University of Mining and Technology (Beijing),

### 个人简介:

张俊文, 男, 汉族, 中共党员, 内蒙古凉城县人, 1977年8月生, 现任中国矿业大学(北京)能源与矿业学院副院长, 教授、博导, 国家公派澳大利亚纽卡斯尔大学访问学者, 煤炭青年科技奖获得者, 入选中国矿业大学(北京)越崎杰出学者奖励计划。兼任巷道支护与灾害防治煤炭行业工程研究中心副主任, 中国岩石力学与工程学会青年工作委员会第八届理事委员会委员, 中国煤炭学会煤矿系统工程专业委员会委员。主要从事煤炭深部卸压开采、冲击地压灾害防治、岩石力学等方面的研究。主持国家自然科学基金重点项目1项、面上项目1项, 国家重点研发计划子课题2项, 中国博士后基金及黑龙江省博士后基金项目各1项, 国家重点实验室开放课题2项。获教育部科技进步一等奖1项(第1), 教育部科技进步二等奖2项(第2, 第3), 中国煤炭工业协会科技进步二等奖7项(第1位2项、第2, 第3位2项、第4、第9), 中国岩石力学与工程学会科技进步二等奖1项(第2)。在国内外重要核心期刊发表论文60余篇, SCI/EI检索30余篇。出版学术著作2部, 主编教材2部。

### Biography:

Bored in 1977, Inner Mongolia, China, J.W. Zhang received his BA, MA at the Taiyuan University of Technology in 2001 and 2004, and PhD at China University of Mining and Technology (Beijing) (CUMTB) in 2013. He is concurrently a member of the 8th Council of the Youth Committee of the Chinese Society of Rock Mechanics and Engineering, and a member of the Coal Mine System Engineering Committee of China Coal Society. He has been engaged in research on deep coal mining, mine pressure and ground control, Roadway supporting. He has published more than 60 refereed journal papers including more than 30 papers indexed in SCI or EI.

**报告题目:** 深部卸压原理及负煤柱开采技术

**Speech Title:** Deep Pressure Relief Principle and Negative Pillar Mining Technology

## 主讲嘉宾

Keynote Speaker



**Mohamed A. Ismail, 教授, 北方工业大学伦敦布鲁内尔学院**

**Prof. Mohamed A. Ismail**

**NCUT - Brunel London University, Beijing**

### 个人简介:

Ismail教授目前任职于北方工业大学伦敦布鲁内尔学院。他还是澳大利亚本特利科廷大学工程与科学学院土木与机械工程学院的兼职教授, 此前, Ismail教授在马来西亚砂拉越科廷大学工程与科学学院土木与建筑工程系担任副教授。他分别于 1991 年和 1996 年获得埃及亚历山大大学理学学士和理学硕士学位, 并于 2003 年获得新加坡南洋理工大学博士学位。

Ismail教授的教学工作包括本科课程: 土木工程材料、混凝土技术、工程力学、钢筋混凝土结构设计、工程与环境原理与理论、施工管理、混凝土实验、固体力学、结构分析和流体力学。他教授的研究生课程包括高级混凝土技术和高级结构分析。他的研究工作涵盖混凝土技术、建筑中的智能材料、高性能混凝土、混凝土耐久性、无损检测、电弧热金属喷涂技术、可持续建筑材料以及钢筋混凝土结构的保护方法。

Ismail教授在加拿大、韩国、马来西亚、埃及、日本和中国从事教学和研究工作长达 25 年之久, 拥有丰富的教学和研究经验。他还在工程咨询公司和石油天然气公司积累了广泛的工作经验。

Ismail教授在期刊和国际会议上发表了120多篇论文, 出版了6本专著。他担任多个国际期刊的审稿人, 是一些期刊的编辑委员会成员, 还是《混凝土研究快报挑战》(CJCR)的主编。他是美国土木工程师协会 (ASCE) 和环境与工程师协会 (EES) 的成员, 也是加拿大阿尔伯塔省专业工程师和地球科学家协会 (APEGA) 的注册专业工程师。

### Biography:

Prof. Ismail is currently working as a full professor at NCUT - Brunel London University, Beijing. He is also an adjunct professor at School of Civil and Mechanical Engineering, Faculty of Engineering and Science, Curtin University, Bentley, Australia. Before joining NCUT - Brunel London University, Beijing, Prof. Ismail was working as an Associate Professor at Civil and Construction Engineering Department, Faculty of Engineering and Science, Curtin University Malaysia, Sarawak, Malaysia. He received his B. Sc. and M. Sc. Degrees from Alexandria University, Egypt in 1991 and 1996, respectively and his PhD from Nanyang Technological University (NTU), Singapore in 2003.



## 主讲嘉宾

Keynote Speaker



**Mohamed A. Ismail, 教授, 北方工业大学伦敦布鲁内尔学院**

**Prof. Mohamed A. Ismail**

**NCUT - Brunel London University, Beijing**

Prof. Ismail teaches undergraduate courses in Civil Engineering Materials, Concrete Technology, Engineering Mechanics, Reinforced Concrete Structural Design, Engineering and Environmental Principles and Theories, Construction Management, Concrete Laboratory, Mechanics of Solids, Structural Analysis and Fluid mechanics. For graduate students, he teaches courses in Advanced Concrete Technology and Advanced Structural Analysis. His research work includes Concrete Technology, Smart Materials in Construction, High Performance Concrete, Durability of Concrete, NDT, Arc Thermal Metal Spray Technology, Sustainable Building Materials and Protection Methods of Reinforced Concrete Structures.

Prof. Ismail has extensive teaching and research experiences over 25 years in Canada, South Korea, Malaysia, Egypt, Japan and China. He also had broad experience at Engineering Consultancies and Oil & Gas Firms. Prof. Ismail has published more than 120 papers in referred Journals and International Conferences and 6 Books. He served as a reviewer for many International Journals, Editorial Board Member of few journals and Editor-in-chief of Challenge Journal of Concrete Research Letters (CJCL). He is a member of ASCE and EES and a Professional Engineer of APEGA-Canada.

**报告题目:** 钢筋混凝土建筑中的回收废料

**Speech Title:** Recycled Waste Materials in Reinforced Concrete Construction

## 主讲嘉宾

Keynote Speaker



张雨坤，教授，山东科技大学

Prof. Yukun Zhang

Shandong University of Science and Technology

### 个人简介:

张雨坤，博士，教授，硕士生导师，毕业于河海大学岩土工程专业。主要从事海洋岩土工程、土力学与地基基础理论、海工新型装备研发等方面研究。主持国家自然科学基金1项，山东省自然科学基金等课题5项。近年来，在国内外岩土工程和海洋工程领域主流期刊发表科技论文40余篇，其中SCI/EI检索20余篇。授权发明专利5项。本科主讲课程:土力学、基础工程、岩土工程专业概论、岩土工程勘察等。研究生主讲课程：高等岩土力学、复合地基等。

### Biography:

Prof. Zhang Yukun works at Shandong University of Science and Technology. He serves as the deputy director of the Qingdao Marine Energy Equipment Disaster Prevention and Reduction Engineering Technology Center, a member of the Nearshore and Offshore Engineering Committee of the Seismological Society of China, and an expert in the expert database of the Shandong Rail Transit Society. Mainly engaged in teaching, research and social service work in marine energy geotechnical engineering and research and development of new structures of offshore energy equipment.

**报告题目:** 海上光伏结构的创新概念

**Speech Title:** Innovative Concepts for Offshore Photovoltaic Structures

## 主讲嘉宾

Keynote Speaker



张玉，教授，东北大学

**Prof. Yu Zhang**  
**Northeastern University**

### 个人简介:

张玉，教授、博士生导师，2014年博士毕业于法国里尔大学。主要研究方向包括深层岩石力学与工程、能源岩土工程、土-井（管）界面特性等；主持了国家自然科学基金青年基金、山东省自然科学基金和青岛市应用基础研究等项目；以第一作者发表高水平SCI和EI期刊论文25篇，入选领跑者5000-中国精品科技期刊顶尖学术论文1篇；以第一发明人授权发明专利5项，登记计算机软件著作权1项；获青岛市科技进步一等奖一项、山东省科技进步三等奖二项及中国石油和化学工业联合会科技进步二等奖一项，被西海岸新区评为“青岛西海岸新区高层次紧缺人才(智岛计划)”，获中国高校矿业石油与安全工程领域优秀青年科技人才提名奖。目前担任中国岩石力学与工程学会多场耦合专业委员会委员、山东岩石力学与工程学会理事会理事。

### Biography:

Yu Zhang, professor and doctoral supervisor, China University of Petroleum (East China). He earned his doctoral degree from the University of Lille in France in 2014. His primary research interests encompass deep rock mechanics and engineering, energy geotechnical engineering, and soil-well (pipe) interface properties. Dr. Zhang has led various research projects, including the National Natural Science Foundation of China's Young Scientist Fund, Shandong Provincial Natural Science Foundation, and Qingdao City's Applied Basic Research projects. As the first author, he has published 25 high-level papers in SCI and EI journals and was featured in the "Top 5000 Leading Chinese Science and Technology Journals" with one outstanding academic paper. Dr. Zhang is also the first inventor of five granted patents and holds one registered computer software copyright. His outstanding contributions have earned him several accolades, including the First Prize for Scientific and Technological Progress in Qingdao, two Third Prizes for Scientific and Technological Progress in Shandong Province, and a Second Prize for Scientific and Technological Progress from the China Petroleum and Chemical Industry Federation.

## 主讲嘉宾

Keynote Speaker



张玉, 教授, 东北大学

Prof. Yu Zhang

Northeastern University

He has been recognized as a "High-Level Talented Professional in Qingdao West Coast New Area (Wisdom Island Plan)" and received a nomination for the Outstanding Young Scientific and Technological Talent Award in the fields of mining, petroleum, and safety engineering in Chinese universities. Currently, he serves as a committee member of the Multi-Field Coupling Professional Committee of the Chinese Society for Rock Mechanics & Engineering and a council member of the Shandong Rock Mechanics and Engineering Society.

**报告题目:** 基于GPU并行加速的高性能滑坡涌浪DEM-SPH耦合计算方法

**Speech Title:** High-Performance Landslide Surge DEM-SPH Coupled Calculation Method Accelerated by GPU Parallel Computing

## 主讲嘉宾

Keynote Speaker



**Hazem Samih Mohamed, 副教授, 福建农林大学**

**Assoc. Prof. Hazem Samih Mohamed  
Fujian Agriculture and Forestry University**

### 个人简介:

Hazem Samih Mohamed, 男, 埃及人, 工学博士, 副教授, 硕士生导师。2009年毕业于埃及本哈大学并获得学士学位。2013年至2017年在华中科技大学学习并获得硕士、博士研究生学位。发表了包括19篇SCI共计23篇的论文。研究领域包括钢结构、疲劳分析、相贯节点、CFRP和预应力结构。《Thin-walled structures》、《Ships and Offshore Structures》及《Engineering Failure analysis》杂志审稿人。在多个国际会议上担任主讲人和委员会成员。

### Biography:

Assoc. Prof. Hazem Samih Mohamed (HS Mohamed), Egyptian, focuses on steel structures and offshore structures. He completed his Ph. D. degree at Huazhong University of Science and Technology. He had conducted several research works on the Fatigue assessment of offshore platforms, bearing capacity of the corroded offshore platforms, and rehabilitation of the corroded/uncorroded offshore platforms using CFRP laminates. He has published several peer-reviewed scientific papers in well-recognized top journals, such as Construction and Building Material; Marine structures; Ocean Engineering; Thin-walled Structures; Journal of Constructional Steel Research; and Engineering Failure Analysis.

**报告题目:** 海上管状节点的修复

**Speech Title:** Rehabilitation of the offshore tubular joints

## 主讲嘉宾

Keynote Speaker



栾雅琳, 副教授, 中国石油大学 (华东)

Assoc. Prof. Yalin Luan

China University of Petroleum (East China)

### 个人简介:

本科毕业于天津大学港口、航道与海岸工程专业, 硕士毕业于伦敦帝国理工学院, 博士毕业于中国石油大学(华东)。主要研究方向为岩土力学和油气工程力学。参与了多项国家自然科学基金项目和国家重点研发计划。在国际权威期刊发表学术论文10余篇, 申请国家发明专利和软件著作权5项。

### Biography:

I received my bachelor's degree in Port, Channel and Coastal Engineering from Tianjin University, master's degree from Imperial College London, and Doctor's degree from China University of Petroleum (East China).

My main research field is geotechnical mechanics and oil and gas engineering mechanics. As a major participant, I have participated in a number of National Nature Foundation projects and National Key Research and Development programs. I have published more than 10 academic papers in authoritative international journals and applied for 5 national invention patents and software Copyrights.

**报告题目:** 基于分子动力学模拟的超临界CO<sub>2</sub>驱油过程的机理研究

**Speech Title:** Study on mechanism of supercritical CO<sub>2</sub> flooding process based on molecular dynamics simulation

## 口头报告

### Oral Presentation

**王宇铮**, 清华大学

**报告题目:** 高烈度区公路监控建筑抗震性能化设计实例

**Yuzheng Wang**, Tsinghua University

**Title:** Example of Seismic Performance-based Design of Highway Monitoring Buildings in High Seismic Intensity Area

**林跃忠**, 山东科技大学

**报告题目:** SAC水泥对水泥基注浆材料性能的影响研究

**Yuezhong Lin**, Shandong University of Science and Technology

**Title:** Effect of SAC Cement on Properties of Cement Based Grouting Material

**康智强**, 沈阳建筑大学

**报告题目:** EPC模式下严寒地区教学楼超低能耗改造研究

**Zhiqiang Kang**, Shenyang Jianzhu University

**Title:** Research on ultra-low energy consumption renovation of teaching buildings in severe cold areas under EPC mode

**唐坚**, 广东财经大学

**报告题目:** 亚热带蚝壳墙构造非定常实际工况隔热性能研究

**Jian Tang**, Guangdong University of Finance & Economics

**Title:** Research on the Unsteady Thermal Insulation Performance of Subtropical Oyster Shell Wall Constructions

## 口头报告

### Oral Presentation

**董建锋**, 民航机场建设集团西南设计研究院有限公司

**报告题目:** 沿海大气环境下锈裂混凝土梁的锈蚀产物分布行为研究

**Jianfeng Dong**, Southwest Design and Research Institute Co. Ltd, China  
Airport Construction Group Corporation

**Title:** Distribution of steel corrosion products in a cracked concrete beam  
exposed to coastal atmosphere

**陈熠昕**, 重庆物康科技有限公司

**报告题目:** 基于互补集合经验模态分解和快速独立分量分析的桥梁挠度监测数据温度  
效应分离方法研究

**Yixin Chen**, Chongqing Wukang Technology Co., Ltd.

**Title:** Research on Temperature Effect Separation Method of Bridge Deflection  
Monitoring Data Based on Complementary Ensemble Empirical Mode  
Decomposition and Fast Independent Component Analysis

**李思源**, 浙江海洋大学

**报告题目:** 桁架-惯性质量阻尼器系统对中庭式建筑的地震响应控制

**Siyuan Li**, Zhejiang Ocean University

**Title:** Seismic response mitigation of atrium-type buildings with a truss-  
inertial mass damper-core structure system

**刘凌雪**, 西华大学

**报告题目:** 基于机器学习的近实时卫星降水产品融合研究

**Lingxue Liu**, Xihua University

**Title:** Near Real-Time Satellite Precipitation Products Fusion Based on Machine  
Learning



## 口头报告

### Oral Presentation

**佟文晶**, 迪肯大学

**报告题目:** 质量缺陷保险背景下的建筑质量缺陷风险机制模型

**Wenjing Tong**, Deakin University

**Title:** Mechanism Model of Inherent Defects Risks for Buildings Quality Under Inherent Defects Insurance

**余诗嘉**, 西安理工大学

**报告题目:** 陕西省水资源承载力水平测度及时空差异研究

**Shijia Yu**, Xi'an University of Technology

**Title:** Study on the Measurement of Water Resources Carrying Capacity Level and Spatial and Temporal Differences in Shaanxi Province

**林士为**, 广西大学

**报告题目:** 钢管混凝土通用材料本构与双因素抗弯承载力计算模型研究

**Shiwei Lin**, Guangxi University

**Title:** RESEARCH ON GENERAL CONSTITUTIVE MODEL AND TWO-FACTOR BENDING CAPACITY CALCULATION MODEL OF CONCRETE-FILLED STEEL TUBULAR

**韦雨晨**, 广西大学

**报告题目:** 考虑矿物掺合料品质的混凝土强度多因素计算模型

**Yuchen Wei**, Guangxi University

**Title:** Multi-factor calculation model of concrete strength considering mineral admixture quality

## 口头报告

### Oral Presentation

黄贵, 广西大学

**报告题目:** 钢桁梁桥稳定承载力分析的弹性模量缩减法

**Gui Huang**, Guangxi University

**Title:** Study on the stability bearing capacity analysis and optimization design method of steel truss bridge structure

牛志伟, 山东科技大学

**报告题目:** 水灰比, 碱含量和轻骨料粒径对碱激发混凝土力学性能的影响

**Zhiwei Niu**, Shandong University of Science and Technology

**Title:** Effect of water-binder ratio, alkali mass fraction and lightweight aggregate size on mechanical properties of alkali-activated concrete

李明星, 山东理工大学

**报告题目:** 考虑TOD策略的城市轨道交通车站周边土地利用评价方法

**Mingxing Li**, Shandong University of Technology

**Title:** Evaluation and Optimization Model of Land Use around Urban Rail Transit Stations Considering TOD Strategy

## 海报展示

### Poster Presentation

**Title:** Experimental Study on Defect Detection of Steel Plates Using Eddy Current Infrared Thermal Imaging Technology

**Authors:** Ma Rui, An Ning and Dong Peng

**Title:** Experimental study on the influence of fiber embedded depth on the interface characteristics of alumina fiber-concrete matrix

**Authors:** Wei Xia, Erlei Bai, Lijun Qin and Ao Yao

**Title:** Study On High Temperature Rheological Properties of Asphalt Modified by Hon7686 Modifier

**Authors:** Yanting Sheng, Jundong Wu and Dalin Wang

**Title:** Surveying and Impact Path of Noise on the Worker' s Unsafe Behavior in Prefabricated Construction

**Authors:** Fuyi Yao, Shijue Wang, Xinru Liu and Qian Guo

**Title:** The Embodiment of Traditional Architectural Features in the Exterior Space Design of Modern Residence: Taking Shanghai "Jiangnan Yufu" as an Example

**Authors:** Fan Yilun, Cai Jun, Ni Lishi, Jiang Liwen

**Title:** Study on Dynamic Properties and Response of Total-prefabricated Steel Floor Slabs

**Authors:** Bin Xia, Xiaotong Peng, Xin Wang, and Chen Lin

**Title:** Study on Seismic Performance of Steel Special-shaped Column-corrugated Steel Plate Shear Wall System

**Authors:** Min Li, Xiaotong Peng, Yiyuan Gao, Chen Lin

**Title:** Experimental study on The Influence of Rainfall Infiltration on Particle Migration of Coarse-Grained Soil Filler

**Authors:** Qiyun Wang, Yueting Huang, Jian Kang, et al

**Title:** Analysis of hydrological changes in the main stream of Chishui River before and after hydropower construction

**Authors:** Wentong Wang, Jinyong Zhao

## 海报展示

### Poster Presentation

**Title:** Analysis of the Forces on the Cable Tower and Beam During Synchronous Construction of Cable- Stayed Bridge Towers and Beams

**Authors:** MingGuo Li, ChunMing Xie, Qi Xiang

**Title:** Deformation analysis of main beam of cable- stayed bridge with maximum double cantilever construction under lateral static wind load

**Authors:** ChunMing Xie, Qi Xiang, MingGuo Li, Yan Ren

**Title:** An approach to optimise the mechanical properties of cylindrical negative stiffness structures

**Authors:** Xin Liu, XiaoJun Tan, Bing Wang

**Title:** Research on pre-processing of geotechnical engineering safety monitoring data

**Authors:** Zhihao Fu, Yuting Fu

**Title:** Study on the Durability of Hydraulic Engineered Cementitious Composites

**Authors:** Yan Shi, Yupu Wang, Jiazheng Li, Wenguang Jiang

**Title:** Yellow River Irrigation and Analysis of the Drainage Characteristics of Ningxia

**Authors:** Yu Song, Zhenhao Zheng, Haijun Liu

**Title:** Mean-squared Response Sensitivity method for Bridge Damage Detection

**Authors:** Ning An, Rui Ma and Peng Dong

**Title:** Study on Aging Performance Evaluation of External Protective Materials for Bridge Suspenders

**Authors:** Baoyao Lin, Chunxia Zhang

**Title:** Numerical Simulation of the Effect of Joint Parameters on the Mechanical Behaviors of the Fractured Sandstone

**Authors:** Yue Zhang, Miaoran Du, Peijie Yin

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