



# International Conference on Space Habitation and Exploitation

<http://cose.sibiao.net/en/>

## **International Conference on Space Habitation and Exploitation 2024 & the 2<sup>nd</sup> Conference on Spatial Information Perception and Decision-making**

The International Conference on Space Habitation and Exploitation 2024 & the 2<sup>nd</sup> Conference on Spatial Information Perception and Decision-making will be held in Chongqing, China, from Nov. 24<sup>th</sup> to 28<sup>th</sup>, 2024, organized jointly by Center of Space Exploration, Ministry of Education, Chongqing University, Provincial-Ministry Collaborative Innovation Center for Deep Space Exploration, China Society of Image and Graphics, Harbin Institute of Technology, Beijing Institute of Technology, Beihang University, Institute of Urban Agriculture, Chinese Academy of Agricultural Sciences, Shenzhen Institute of Artificial Intelligence and Robotics for Society, State Key Laboratory of Space Weather, National Space Science Center, CAS, etc. This conference aims to promote international cooperation and exchanges in the peaceful utilization of space technology. We will delve into topics such as opportunities and challenges in the development of space habitation technology and the peaceful utilization industry, while exploring avenues and solutions for space exploitation and utilization technologies. We sincerely invite you to participate and contribute to the conference.

### **Topics**

Progress of International Lunar and Planetary Exploration  
Space Habitation and Construction of Extraterrestrial Ecosystem  
Development and Utilization of Space Science and Technology  
Spatial Information Perception and Decision-making

### **Organizers**

Center of Space Exploration, Ministry of Education  
Provincial-Ministry Collaborative Innovation Center for Deep Space Exploration  
China Society of Image and Graphics



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## Co-organizers

Harbin Institute of Technology

Beijing Institute of Technology

Beihang University

Institute of Urban Agriculture, Chinese Academy of Agricultural Sciences

Shenzhen Institute of Artificial Intelligence and Robotics for Society

State Key Laboratory of Space Weather, National Space Science Center, CAS

## Conference Chairs

Academician Dengyun Yu, Academician Hanlong Liu

## Executive Conference Chairs

Academician Michel Blanc, Professor Gengxin Xie

## Academic Advisory Committee

Academic Committee of the Provincial-Ministry Collaborative Innovation Center for Deep Space Exploration and other special invitations

(Academician Faren Qi

Academician Liheng Wang,

Academician Zhihua Zhong

Academician Weimin Bao

Academician Dengyun Yu

Academician Guangsheng Zhu

Academician Chi Wang

Academician Yue Hao

Academician Zheng You

Academician Weiren Wu

Academician Jianyu Wang

Academician Mengfei Yang

Academician Zhicheng Zhou

Academician Xibin Cao

Academician Zhenyuan Jia

Academician Lei Guo

Shanguang Chen, Yonghua Tan, Yongfu Wang, He Zhang, Yuhua Zhang,

Xinbo Zhu, Zhenyu Hu, Pingyuan Cui, Gengxin Xie, Weiguo Li)

Academician Shizhong Yang

Academician Yangsheng Xu

Academician Lieyun Ding

Academician Hongyuan Mei

Academician Jinbin Cao

Academician Hanlong Liu

Academician Xiaohua Tong

## Collaborating Organizations

Chongqing Astronomical Society



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Academic Committee of the Spatial Information and Decision-making, China Society of Image and Graphics

National Center for Technological Innovation in Digital Construction

Space Habitation (Journal)

## Science Committee

Academician Jesus Martinez Frias

Academician Michel Blanc

Yulin Deng, Ning Ding, Zizheng Gong, Maozhi Ren, Jinquan Shi, Weiren Shi, Zhaokui Wang, Gengxin Xie, Jihao Yin, Zexu Zhang, Cheng Zhou, Shaoqi Zhou, Peng Xi

## Agenda

Date	Time	Agenda
24, November	10:00-22:00	Registration
25, November	09:00-12:00	Opening Ceremony, Group Photo, Keynote Speeches
25, November	14:30-18:00	Keynote Speeches
26, November	09:00-12:00	Session 1-4
26, November	14:30-18:00	Session 1-4
27, November	08:00-19:00	Field Tour
28, November	08:00-21:00	Departure

## Academicians and Experts to give speeches

Academician Shizhong Yang, Chinese Academy of Engineering

Academician Yangsheng Xu, Chinese Academy of Engineering

Academician Lieyun Ding, Chinese Academy of Engineering

Academician Chi Wang, Chinese Academy of Sciences

Academician Hongyuan Mei, Chinese Academy of Engineering

Academician Dengyun Yu, Chinese Academy of Sciences

Academician Hanlong Liu, Chinese Academy of Engineering

Academician Xiaohua Tong, Chinese Academy of Engineering



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Academician Michel Blanc, International Academy of Astronautics, Academia Europaea

Professor Alexey Kondyurin, University of Sydney, Ewingar Scientific, Astronautic Association Award “Medal of Achievements in Astronautics”

Researcher Jianhui Bin, Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences

Professor Yulin Deng, Beijing Institute of Technology

Researcher Chunyu Ding, Shenzhen University

Researcher Ning Ding, Shenzhen Institute of Artificial Intelligence and Robotics for Society

Professor Shuliang Dou, Harbin Institute of Technology

Professor Fernando Alberquilla Martinez, University of the Basque Country, Spain

Professor Francesco Sauro, ESA Caves and Lava Tudes Experts, University of Padua, Italy

Researcher Zizheng Gong, Beijing Institute of Spacecraft Environment Engineering, China Academy of Space Technology

Professor Jianmin Hua, Chongqing University

Researcher Jianghui Ji, Purple Mountain Observatory, Chinese Academy of Sciences

Researcher Karouia Fathi, Space Science and Astrobiology Division, Ames Research Center, NASA, Blue Marble Space Institute of Science

Professor Zhizhong Kang, China University of Geosciences (Beijing)

Professor Shuang Li, Nanjing University of Aeronautics and Astronautics

Professor Weiguo Li, Chongqing University

Researcher Xiaoshuang Li, Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences

Professor Tianlin Lin, Chinese University of Hong Kong, Shenzhen

Professor Chunwang Ma, Henan Normal University

Professor Maozhi Ren, Institute of Urban Agriculture, Chinese Academy of Agricultural Sciences

Professor Xiaoyan Sun, Zhejiang University

Professor Xuhai Tang, Wuhan University

Researcher Dayi Wang, Institute of Spacecraft System Engineering, China Academy of Space Technology



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Professor Qingyuan Wang, Sichuan University

Professor Zhaokui Wang, Tsinghua University

Researcher Zhi Wang, Changchun Institute of Optics, Fine Mechanics and Physics,  
Chinese Academy of Sciences

Professor Gengxin Xie, Chongqing University

Professor Xuanyi Xuan, Chongqing University

Professor Lei Yan, Beijing University

Professor Jianyao Yao, Chongqing University

Professor Jihao Yin, Beihang University

Researcher Chongfeng Zhang, Shanghai Institute of Aerospace System Engineering

Professor Liang Zhang, Chongqing University

Researcher Yuhua Zhang, Shanghai Academy of Spaceflight Technology

Professor Zexu Zhang, Harbin Institute of Technology

Professor Yun Zhao, Hongkong University

Researcher Weibo Zheng, Shanghai Institute of Technical Physics, Chinese  
Academy of Sciences

Researcher Hai Zhou, National Space Science Center, Chinese Academy of  
Sciences

Researcher Yizhun Zhu, Macau University of Science and Technology

## Registration

1. **Please register online** through the following website. Please feel free to contact conference staffs if you have any questions during the registration process.

<http://cose.sibiao.net/en/>

### 2. Registration Fee

The registration fee includes admission to the plenary programme and all the related conference materials. Attendants are responsible for their own meals, transportation and accommodation expenses.

The registration fees for this conference will be collected and invoiced by the Chongqing Astronomical Society. When making the payment, please include a memo stating: "Space Conference + Name + Organization".



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Date Category	Scientific research staff	Student	Business Representative
Early (Before 30 September 2024, 12:00pm BJT)	1500CNY / Person	600CNY / Person	1800CNY / Person
Regular (After 30 September 2024, 12:00pm BJT)	2000CNY / Person	1000CNY / Person	2400CNY / Person

**Payment Method:** Attendants can choose to pay by credit card, indebt card or WeChat QR code (e.g. for Chinese attendants).

### CNY Account:

户名: 重庆天文学会

帐号: 50050106004600000607

开户行: 中国建设银行股份有限公司重庆两江新溉路支行

### Euro Account:

Account name: CHONGQING ASTRONOMICAL SOCIETY

Account number:50050105360009084342

SWIFT BIC: PCBCCNBJCQX

Bank: CHINA CONSTRUCTION BANK CHONGQING BRANCH SHAPINGBA SUBBRANCH

Bank Address: NO. 82 XIAO XIN STREET SHAPINGBA DIST CHONGQING CHINA

### USD Account:

Account name: CHONGQING ASTRONOMICAL SOCIETY

Account number:50050105360009064342

SWIFT BIC: PCBCCNBJCQX

Bank: CHINA CONSTRUCTION BANK CHONGQING BRANCH SHAPINGBA SUBBRANCH



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Bank Address:NO. 82 XIAO XIN STREET SHAPINGBA DIST CHONGQING CHINA

## QR code:



## Exhibition

In the same period of the conference, exhibitions will be organized to showcase cutting-edge technologies, high-end equipment and solutions, popular science works, etc. The exhibition area and the number of exhibition stands are limited, and reservations will be made on a first-come, first-served basis.

## Contact Details

Staffs of the Conference		
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(If you are willing to present a report, please send the report abstract and personal profile to Xiaoli Liu :

[liuxiaolis2016@cqu.edu.cn](mailto:liuxiaolis2016@cqu.edu.cn) before 25,Oct, 2024 )

## Report Abstract

### Report Title

Full names of all contributed authors with the presenter underlined<sup>1</sup>

<sup>1</sup>List of all the institutions

Email: (correspondence email address)

Main body of abstract will show the motivation, novel aspects and key findings of the presented work. Please try to keep all the content within one page for the easy collection. Font style of Times New Roman and font size of 12 are recommended, with line space of 1.15. An empty line is suggested to separate paragraphs which don't have indentation at the beginning. Pictures and tables may be used for clearer description.

Key references should be added at the end of this abstract, together with all the funding acknowledgements if applicable. Please don't hesitate to contact Xiaoli Liu ([liuxiaolis2016@cqu.edu.cn](mailto:liuxiaolis2016@cqu.edu.cn)) or Dan Qiu ([Qiudan@cqu.edu.cn](mailto:Qiudan@cqu.edu.cn)) if you have any enquiries or need any assistance.

Figure XX	

Table XX			

**Acknowledgement:** e.g. funding sources that support the presented work.

**References:** i.e. to save the space, abbreviations of first three authors and journal names (with volume, issue and page number) and without title are recommended.

e.g [1] Liu Y, Xie G, Yang Q\*, et al. Nature Communications, 2021, 12 : 5998.





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## Personal Profile

Name		(photo)
Affiliation		
Position		
Report Title		
Personal Profile	(Approximately 200-300 words)	

A large, semi-transparent watermark of the ICSHE 2024 logo is centered on the page, overlapping the bottom two rows of the form. The watermark consists of the acronym 'ICSHE' in a large, bold, blue font, with '2024' below it, all enclosed in a circular border with a star at the top.