

2nd Round Announcement

International Conference on 3D Printing Concrete
Materials and Structures, 2021

3DPCMS-2021

Nanjing, China

May 14-16, 2021

Hosted by

Southeast University

China Concrete and Cement based Product Association, CCPA

Organized by

Southeast University

Jiangsu Key Laboratory of Construction Materials

Collaborative Innovation Center for Advanced Civil Engineering Materials of Jiangsu Province

Nanjing Institute for Intelligent Additive Manufacturing Co.,Ltd

Co-Organized by

Tongji University

Lanzhou University of Technology

Hebei University of Technology

CCCC 1st Highway Construction Consultants Co., LTD

3DConcrete (A US NSF AccelNet network)

Supported by

CR Cement

LafargeHolcim



International Conference on 3D Printing Concrete Materials and Structures, 2021 (3DPCMS-2021)

(2nd Round Announcement)
May 14-16, 2021, Nanjing, China

INTRODUCTION

Concrete 3D printing technology has the characteristics of multi-disciplinary intersection and integration. It is an emerging intelligent construction technology of civil engineering. With its advantages of formwork free, automated & digital printing process, it has attracted wide attention from domestic and foreign scholars and the industry. At the same time, the emergence of concrete 3D printing technology also provides a broad space for innovative building and structural design & construction, and also new material development. In recent years, 3D printing concrete technology has been successfully applied to pilots & demonstration projects such as building, municipal projects, landscape architecture, roads & bridges, etc., showing broad development prospects. In spite of significant progress in R&D and application of 3D printing concrete, there is still a lot to be explored in terms of material selection and performance, 3D printing equipment and technology, 3D printing structure design and construction, and standard specifications. To solve the urgent problems, it is necessary to carry out interdisciplinary innovative research. In order to strengthen the exchanges between scholars of different disciplines in topic of 3D printing concrete technology, and to promote cooperation between universities, research institutes and enterprises, and promote the high-quality, rapid and scientific development of 3D printing concrete technology, "1st International Conference on 3D Printing Concrete Materials and Structures" will take place in Nanjing from May 14th to May 16th 2021. Warmly welcome domestic and foreign experts, scholars, graduate students and engineering technicians to participate in the conference.

SCIENTIFIC COMMITTEE

Chairman: Changwen Miao

Vice Chairman: Zongjin Li, Yongmo Xu

Committee Member: (in alphabetical order of surnames)



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Domestic Committee:

Mingzhe An	Bing Chen	Biqin Dong	Peng Feng	Liang Huo
Zhengwu Jiang	Cong Lu	Jianning Liang	Jianzhong Lai	Weihong Li
Laibao Liu	Tiejun Liu	Zhiyong Liu	Guowei Ma	Jinlong Pan
Hongxia Qiao	Ye Qian	Caijun Shi	Wei She	Weiguo Sheng
Guanfei Tian	Dongmin Wang	Hailong Wang	Fazhou Wang	Li Wang
Zhendi Wang	Jianzhuang Xiao	Jiayuan Ye	Min Yang	Qiang Yuan
Shouqi Zhang	Tao Zhang	Yuan Zhu	Yamei Zhang	Yunsheng Zhang

International Committee:

Viktor Mechtcherine Victor C Li Narayanan Neithalath Hongjian Du Qing Zhang

CONFERENCE PROGRAM

Date:

14th May 2021-16th May 2021

Schedule:

Date	Content
14th May 2021	Registration
Moring, 15th May 2021	Opening Ceremony & Keynote Speech (English)
Afternoon, 15th May 2021	Parallel Sessions (Chinese or English)
Moring, 16th May 2021	Parallel Sessions (Chinese or English)
Afternoon, 16th May 2021	Keynote Speech (English) & Closing Ceremony

CONFERENCE THEMES (Including but not limited to the following)

1. R&D on 3D printing concrete
2. Rheology and printing performance of 3D printing concrete
3. Mechanical performance and constitutive relation of 3D printing concrete
4. Microstructure and performances of 3D printing concrete
5. Reinforcement technologies of 3D printed structure
6. Structural design and mechanical performances of 3D printing concrete
7. R&D on concrete 3D printer
8. Applications on 3D printing concrete in civil engineering projects
9. Design of 3D printed architectures
10. Standardizations and regulations on 3D printing concrete



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Keynote Speech

Title	Speaker
Integrating reinforcement in 3D concrete printing: state of the art, classification, and perspectives	Viktor Mechtcherine Technical University of Dresden, Germany
Assessment of buildability of 3D printed concrete	Manu Santhanam Indian Institute of Technology, Madras, India
Buildability evaluation for 3D printed cementitious composites	Zongjin Li University of Macau, Macau, China
3DP with ECC	Victor C Li University Of Michigan, USA
Influence of layering process on load induced cracking and failure in 3D printed compression and flexural elements	Narayanan Neithalath Arizona State University, USA
To be determined	Jay Sanjayan Swinburne University of Technology , Australia
Development of cement-based materials and use of controlled architectures for 3D-printing at different size scales	Jan Olek Purdue University, UAS
Progress on 3D printing in Singapore	Ming Jen Tan Nanyang Technological University, Singapore
Towards structural applications of 3D printing : recent application examples from LafargeHolcim with its partners	Hélène Lombois-Burger Head of R&D for digital manufacturing, LafargeHolcim, France
Embedding continuous reinforcement for 3D printing concrete	Guowei Ma Hebei University of Technology, China
Mechanical properties of 3D printing mortar with 100% recycled sand	Jianzhuang Xiao Tongji University, China
Studies on the design, preparation, and performance of 3D printing cement-based materials	Yunsheng Zhang Lanzhou University of Technology, China
C house design with 3D printing technology	Yuan Zhu Southeast University, China
3D printing concretes developed at Southeast University	Yamei Zhang & Jinlong Pan Southeast University, China



ORGANIZATION COMMITTEE

Chairman: Yamei Zhang

Vice Chairman: Yunsheng Zhang, Jinlong Pan

Committee Member: Jianming Gao, Liping Guo, Chun Chen, Jin Li, Xianggang Wang, Zijian Jia, Shunquan Zhang, Ruilin Cao, Jingming Cai, Li Xu, Binrong Zhu, Zhenhua Duan, Tao Ding

Secretary: Chao Zhang, Yidong Chen, Jinsheng Han, Xianggang Wang, Lutao Jia

ORGANIZING COMMITTEE CONTACT

Departments: School of Materials Science and Engineering, Southeast University

Postal address: Materials Building A, No. 2, Southeast University Road, Jiangning District, Nanjing City, Jiangsu Province, China, Post Code: 211189

Contacts: Shunquan Zhang, Tel: 15951727785, Email: 3dpcms2021@seu.edu.cn

Chao Zhang, Tel: 15086702026

Yidong Chen, Tel: 15605222980

Jinsheng Han, Tel: 15591825505

PARTICIPATION INTENTION

The receipt of this conference can be seen from **Attachment**. Due to the requirements of epidemic prevention and control, and in order to ensure the smooth development of the conference, please send it to the **conference mailbox** (3dpcms2021@seu.edu.cn) as an email attachment before **April 20, 2021**. The conference affairs team will arrange the hotel room and report schedule according to the information of the receipt.

LOCATION

Conference Location: Holiday Inn Nanjing Qinhuai South

Accommodation Location: Holiday Inn Nanjing Qinhuai South (No. 21 Mozhou East Road, Jiangning District, Nanjing)

Single Room: 490 CNY/Night (Breakfast); Standard Room: 590 CNY/Night (Breakfast);

Service number: 025-84908888



2nd Round Announcement

Transportation guide:

Plan A

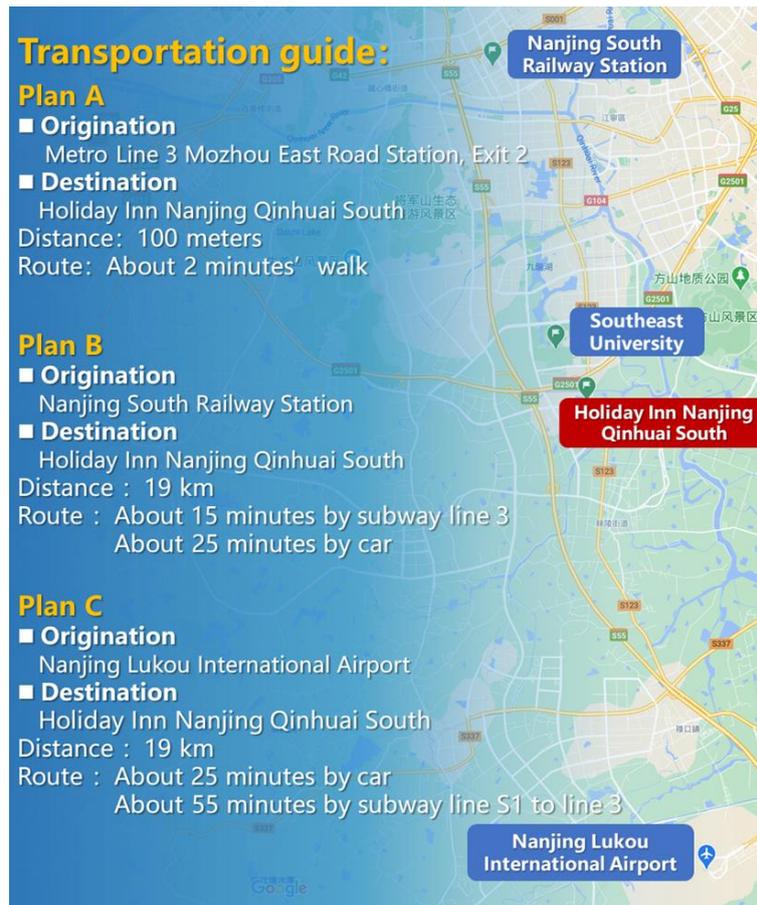
- **Origination**
Metro Line 3 Mozhou East Road Station, Exit 2
- **Destination**
Holiday Inn Nanjing Qinhuai South
Distance: 100 meters
Route: About 2 minutes' walk

Plan B

- **Origination**
Nanjing South Railway Station
- **Destination**
Holiday Inn Nanjing Qinhuai South
Distance : 19 km
Route : About 15 minutes by subway line 3
About 25 minutes by car

Plan C

- **Origination**
Nanjing Lukou International Airport
- **Destination**
Holiday Inn Nanjing Qinhuai South
Distance : 19 km
Route : About 25 minutes by car
About 55 minutes by subway line S1 to line 3



CONFERENCE REGISTRATION FEE

	Fee
Domestic participant	¥2000 (RMB)
Student	¥1000 (RMB)

The conference registration fee includes the conference reception, meals and other expenses. Accommodation fee will be paid by participants themselves. The registration fee payment information will be released in the 3rd round announcement.



March 20, 2021



Attachment:

**International Conference on 3D Printing
Concrete Materials and Structures, 2021 (3DPCMS-2021)
Receipt form**

姓名 Name		性别 Gender	
单位名称 Affiliation			
通讯地址 Postal address			
电子邮箱 Email		邮编 Zip code	
职务/职称 Title/Position		手机 Phone Num.	
是否作口头报告 Oral report or not	<input type="checkbox"/> 是(Yes) <input type="checkbox"/> 否(No)		
初步的报告题目 Report title			
如需会务组协助预定“南京上秦淮假日酒店”请填写如下信息			
房型及数量 Room type & Num.	单间(Single Room): 间	标间(Standard Room):	间
入住时间 Check-in date		退房时间 Check-out date	

Friendly Tips:

Please send this receipt form as an email attachment to the **conference mailbox** (3dpcms2021@seu.edu.cn) before **April 20, 2021**. The conference affairs team will arrange the hotel room and report schedule based on the receipt information.