



Southeast Symposium of Recent Developments in Geotechnics

7th – 10th July 2018

Southeast University, Nanjing, P.R. China

GEO Symposium

Organised and sponsored by:

School of Civil Engineering, Southeast University 东南大学土木工程学院
Institute of Future Underground Space, Southeast University 东南大学未来地下空间研究院
Jiangsu Society for Geotechnical Mechanics and Engineering 江苏省岩土力学与工程学会

Welcome:

We cordially invite you to the **2018 Southeast Symposium of Recent Developments in Geotechnics**, which will be held on **7th – 10th July 2018** at **Southeast University, Nanjing, Jiangsu, P.R.China**. This is the second in the series, which was launched in 2017 and attracted over 80 researchers from USA, Norway, UK, France, Austria, Japan, Australia, Singapore, India, HKSAR, and the top universities in P.R. China.

It aims at providing a supportive platform to exchange the latest progress in fundamental and applied geotechnical research, to explore new scientific frontiers and new ideas, and to develop strategic plan to tackle real world challenges in energy, environment and sustainability. We welcome contributions from all areas of geo-mechanics and geotechnical engineering. Each speaker will have sufficient to present their work in one of the following sessions: “Geotechnical Frontiers”, “Multi-scale and Multi-physics” and “Cross-disciplinary geo-engineering”, to promote focused discussions and scholarly debates. We also hope to bridge the gap between fundamental research and geotechnical applications by bringing researchers and practitioners in one room.

The symposium is part of the initiatives of Southeast University to raise research profile at the national and international level. A number of travel grants is available for international travellers. The event also supports our international recruitment of competent academic staff to strengthen existing capacities as well as to catalyse new developments. Potential applicants are highly encouraged to join the event.

This event will be organised in conjunction with the National Postgraduate Summer School in Civil Engineering (1st – 7th July), which has been successfully organised and hosted by Southeast University in the past 8 years. The summer school accommodated around 300 students (selected over 1000 applicants) last year, and 60 of them were in the class of geotechnical engineering. Opportunities to interact with summer school students will be available.

Look forward to welcoming you in Nanjing.

Prof. Xia Li

Professor in Geotechnical Engineering
School of Civil Engineering, Southeast University
On behalf of symposium organisers

International advisory committee:

Prof. Yu-Jun Cui, Ecole des Pans ParisTech, France
Prof. Yannis Dafalias, UC Davis, USA
Prof. Andrew Dawson, University of Nottingham, UK
Prof. Yun-Tian Feng, Swansea University, UK
Prof. Jie Han, Kansas University, USA
Prof. Pierre-Yves Hicher, Ecole Centrale de Nantes, France
Prof. Amir M Kaynia, Norwegian Geotechnical Institute, Norway
Prof. Xiang-Song Li, Hong Kong University of Science and Technology, HKSAR, China
Prof. Francois Nicot, IRSTEA Grenoble, France
Prof. Mark Randolph, University of Western Australia, Australia
Prof. Kenichi Soga, UC Berkeley, USA
Prof. Wei Wu, University of Natural Resources and Life Sciences, Austria
Prof. Jian Zhao, Monash University, Australia

Symposium organisers:

Yong-Feng Deng, Professor, Southeast University
Yan-Jun Du, Professor, Southeast University
Lei He, Professor, Southeast University
Xia Li (Chair), Professor, Southeast University
Long-Gang Tian, Lecturer, Southeast University
Fei Wang, Associate Professor, Southeast University
Xue-Liang Zhao, Associate Professor, Southeast University

Secretary General:

Xia Li, Professor, Southeast University

Event Venue:

Jiulonghu Campus, Southeast University, Nanjing, P.R. China



Contact us:

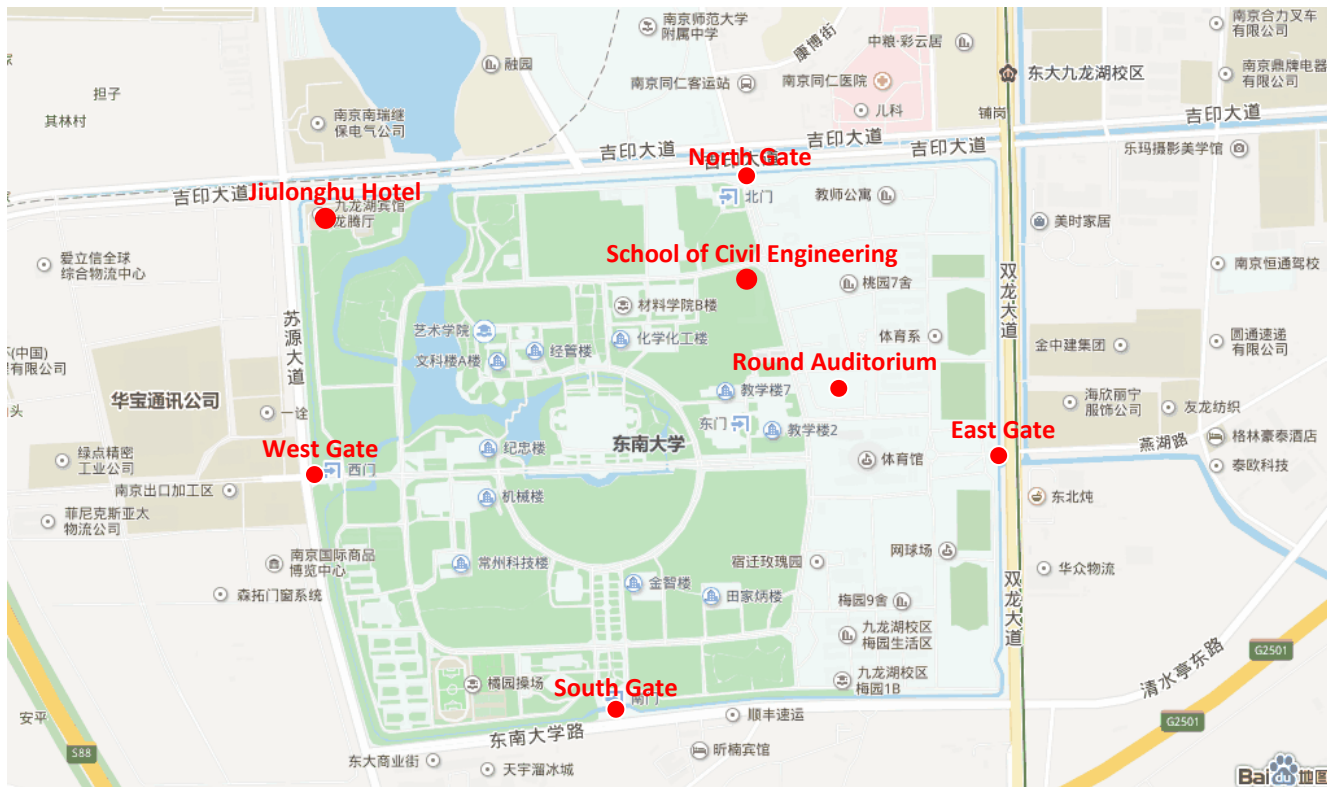
For any inquiries or information, please email to geo@pub.seu.edu.cn.

Instruction to local transportation:

The symposium will mainly take place at the Zhiyou Room, Jiulonghu Hotel at the northwest corner of the Jiulonghu Campus, Southeast University. However, please note that the welcome and opening session on 8th July is scheduled at Round Auditorium (圆形报告厅) on the eastern side of the campus, as seen in the following maps.

Accommodation for overseas participants has been booked at the Jiulonghu (九龙湖) Hotel inside the Jiulonghu Campus, Southeast University; for domestic attendees, reservations have been made at the Golden Eagle Summit Hotel (金鹰尚美酒店), Jiangning District, Nanjing, China (<http://nanjinggoldeneagle.31td.com>).

Buses are arranged to bring our delegates from the hotels to the event avenue. Please find detailed and time schedule at the registration desk. In particular, there will be buses arranged after the photo-taking session on 8th July to take you from the Round Auditorium to Jiulonghu Hotel. Please don't miss it.



To Jiulonghu Hotel at Southeast University (东南大学九龙湖宾馆):

From Nanjing Train Station (南京站):

- Take the metro line No 3 (地铁三号线) towards Mozhoudonglu (秣周东路) station, and get off at Southeast University, Jiulonghu Campus (东大九龙湖) station
- Or by taxi: around 37min, RMB 76

From Nanjingnan Train Station(南京南站):

- Take the metro line No 3 (地铁三号线) towards Mozhoudonglu(秣周东路) station, and get off at Southeast University, Jiulonghu Campus(东大九龙湖) station
- Or by taxi: around 26min and RMB 35

From Nanjing Lukou Airport(南京禄口机场):

- Take the metro line S1 (地铁 S1 线) towards Jiyin Avenue(吉印大道) station, then walk to Jiyin Avenue North Bus Station(吉印大道北站), and take the 711 bus to arrive at the west entrance of Jiulonghu campus(Chukoujiagongqu bus station 出口加工区公交站)
- Take the metro line S1 (地铁 S1 线)to Nanjingnan station (南京南站), then transfer to metro line No 3 (地铁 3 号线) to Southeast University, Jiulonghu Campus (东大九龙湖) station
- Or by taxi: around 25min and RMB 71

From Golden Eagle Summit Hotel (金鹰尚美酒店):

- Take the metro line No 1 (地铁一号线) towards Nanjingnan station (南京南站), then change for Metro Line No 3 (地铁三号线) towards Mozhoudonglu (秣周东路) station, and get off at Southeast University, Jiulonghu Campus (东大九龙湖) station
- Or by taxi: around 16min, RMB 21

To Golden Eagle Summit Hotel (金鹰尚美酒店):

From Nanjing Train Station (南京站):

- Take the metro line No 1 (地铁一号线) towards Zhongguoyaoikedaxue (中国药科大学) station, and get off at Baijiahu (百家湖) station
- Or by taxi: around 29min, RMB 52

From Nanjingnan Train Station (南京南站):

- By taxi: around 13min and RMB 21

From Nanjing Lukou Airport(南京禄口机场):

- Take the metro line S1 (地铁 S1 线) towards Nanjingnan Train Station(南京南站) station, then transfer the metro line No 1 (地铁一号线) to Baijiahu (百家湖) station
- Or by taxi: around 27min and RMB 84

From Jiulonghu Hotel (九龙湖宾馆):

- By taxi: around 13min, RMB 19

Technical Programme:

Location: Jiulonghu Campus, Southeast University (东南大学九龙湖校区)

6th July 2018		
18:00-22:00	Study abroad fair with summer school and Southeast students Location: Room 201, Teaching Block 2 (教二 201)	
7th July 2018		
14:00-20:00	Registration Location: Jiulonghu hotel and Golden Eagle Summit Hotel	
8th July 2018		
9:00-9:30	Welcome and opening	
9:30-9:50	Photo-taking Location: Round Auditorium (圆形报告厅)	
9:50-10:10	Bus to Jiulonghu Hotel	
10:10-10:30	Introduction to Geotechnical Engineering at Southeast University Prof. Guo-Liang Dai & Prof. Yan-Jun Du Location: Zhiyou Room, Jiulonghu Hotel (九龙湖宾馆至友厅)	
Session 1: Geotechnical Frontiers Chair: Yu-Jun Cui & Jianfu Shao Organiser: Xia Li Location: Zhiyou Room, Jiulonghu Hotel (九龙湖宾馆至友厅)		
10:20-10:38	Amir M. Kaynia (NGI)	Macro-element models for integrated SSI analyses in offshore wind turbines
10:38-10:56	Weimin Ye (Tongji)	A new approach for determination of gas breakthrough in saturated materials with low permeability
10:56-11:14	Changfu Wei (CAS)	Pressures and potentials for soil: reconceptualization and formulation
11:14-11:32	Qi-Zhi Zhu (Hohai)	Bond-based nonlocal peridynamics theory with PD-FEM hybrid implementation
11:32-11:50	Tengyuan Zhao (CityU)	Interpretation and simulation of soil properties from spatially varying but sparsely measured data
11:50-12:08	Hongwei Yang (HKU)	From calibration chamber studies to field conditions - Insights from cavity expansion analysis of finite radial extent
12:08-12:26	Guojun Cai (SEU)	Practice of full flow penetration testing in offshore engineering
12:26-12:40	Discussion	
Lunch		
Session 2: Cross-disciplinary Geotechnics Chair: Yan-Jun Du & Ningjun Jiang Organisers: Yan-Jun Du & Ningjun Jiang Location: Zhiyou Room, Jiulonghu Hotel (九龙湖宾馆至友厅)		
13:40-13:58	Shijin Feng (Tongji)	Slope stability of landfills considering leachate recirculation using vertical wells
13:58-14:16	Chaosheng Tang (NJU)	Effect of wetting-drying cycles on soil desiccation cracking behavior
14:16-14:34	Ningjun Jiang (UHM)	Microbial induced calcite precipitation for internal erosion control
14:34-14:52	Yangyang Li (NTU)	Effect of climate on tree stability
14:52-15:10	Gangqiang Kong (Hohai)	Case study on bridge deck de-icing through energy piles
15:10-15:28	Yan-Jun Du (SEU)	Solidification/stabilization-based treatment of contaminated soils: lab-scale testing and field practice
15:28-15:40	Discussion	
Tea break		
Multi-scale and Multiphysics Workshop 1: Fundamentals		

Chair: Ali Daouadji & Zhenyu Yin		
Organisers: Pierre-Yves Hicher & Xia Li		
Location: Zhiyou Room, Jiulonghu Hotel (九龙湖宾馆至友厅)		
16:00-16:18	Ali Daouadji (Lyon)	Instabilities in loose and dense granular materials
16:18-16:36	Zhongxuan Yang (ZJU)	An anisotropic hypoplastic model for granular soils
16:36-16:54	Jiangu Qian (Tongji)	Micromechanics-based constitutive modeling and DEM simulation of localized failure in geomaterials
16:54-17:12	Zhenyu Yin (Nantes)	Unified mechanical modelling of sand-silt mixtures
17:12-17:30	Kun Zhang (WSU)	Numerical analysis at the particulate scale of sand erosion under impinging jet
17:30-17:48	Huan He (CityU)	Dynamics and micro-mechanics of soils
17:48-18:00	Discussion	
Symposium Banquet		
9th July 2018		
Multi-scale and Multiphysics Workshop II: Coarse granular materials		
Chair: Pierre-Yves Hicher & Xia Li		
Organisers: Pierre-Yves Hicher & Xia Li		
Location: Zhiyou Room, Jiulonghu Hotel (九龙湖宾馆至友厅)		
8:30-8:48	Pierre-Yves Hicher (Nantes)	Modeling the effect of wetting on the mechanical behaviour of crushable granular materials
8:48-9:06	Sihong Liu (Hohai)	Field testing and microscopic interpretation on shear strengths of coarse granular materials
9:06-9:24	Zhongzhi Fu (NHRI)	On the wetting-induced deformation of rockfill materials
9:24-9:42	Hua-Bei Liu (HUST)	Particle crushing of calcareous sand and its relationship with input energy
9:42-10:00	Chunshun Zhang (Monash)	Grain crushing in geotechnical engineering: a continuum approach based on breakage mechanics
10:00-10:10	Discussion	
Tea break		
Multi-scale and Multiphysics Workshop III: Clay and other fine granular materials		
Chair: Yonggui Chen & Lingling Zeng		
Organiser: Yong-Feng Deng		
Location: Zhiyou Room, Jiulonghu Hotel (九龙湖宾馆至友厅)		
10:30-10:48	Yujun Cui (ParisTech)	Hydromechanical behaviour of bentonite pellet/powder mixture
10:48-11:06	Guoping Zhang (UMA)	Cross-scale characterization of shales by big data & large volume-based nano-indentation
11:06-11:24	Xianfeng Liu (SWJU)	Multi-scale characterization of hydro-mechanical behavior of compacted Maryland clay
11:24-11:42	Guanlin Ye (SHJTU)	A unified constitutive model for unsaturated soil for monotonic and cyclic loading
11:42-12:00	Qian Zhai (SEU)	The role of pore-size distribution function on the engineering properties of soil
12:00-12:18	Fei Wang (SEU)	Initial Investigation into the effect of temperature on the solidified/stabilized contaminated soil
12:18-12:30	Discussion	
Lunch		
Multi-scale and Multiphysics Workshop IV: Rock and cement-based granular materials		
Chair: Qi-Zhi Zhu & Yong-Feng Deng		
Organiser: Yong-Feng Deng		

Location: Zhiyou Room, Jiulonghu Hotel (九龙湖宾馆至友厅)		
13:30-13:48	Jianfu Shao (Lilli)	Micro-macro modelling of plastic deformation and damage in clayey rocks
13:48-14:06	Wanqing Shen (Lilli)	Effective strength of saturated double porous media with a Drucker-Prager solid phase
14:06-14:24	Yi-Feng Chen(WHU)	Pattern formation and energy conversion for multiphase flow in geomaterials
14:24-14:42	Ehsan Seyedi Hosseininia (Ferdowsi)	Analysis of reinforced soil walls using two-phase approach
14:42-15:00	Wenni Deng (SEU)	Coral sand solidification by microbially induced carbonate precipitation
15:00-15:10	Discussion	
Tea break		
Session 3: Offshore Geotechnics		
Chair: Dong Wang & Xue-Liang Zhao		
Organiser: Weimin Gong & Xue-Liang Zhao		
Location: Zhiyou Room, Jiulonghu Hotel (九龙湖宾馆至友厅)		
15:30-15:45	Amir M. Kaynia (NGI)	Introduction to NGI and their research in offshore geotechnics
15:45-16:00	Dong Wang (OUC)	Interaction between the spudcan and footprint
16:00-16:15	Mingyuan Wang (Huadong)	海洋勘察及软基处理研究进展
16:15-16:30	Xianhui You (Yongfu)	海上风电嵌岩桩的思考
16:30-16:45	Junbo Jia (Aker)	Fatigue assessment of offshore jacket structures using nonlinear time domain dynamic analysis
16:45-17:00	Xue-Liang Zhao (SEU)	Horizontal bearing capacity of offshore rock-socketed pile foundation with large diameter
17:00-17:20	Discussion	
17:20-17:30	Closing ceremony	

Symposium delegates:

	Surname	First name	Affiliation	Country
1	Bulolo	Sam	Student, Nanyang Technological University	Singapore
2	Cai	Guojun	Professor, Southeast University	China
3	Chen	Yi-Feng	Professor, Wuhan University	China
4	Chen	Yonggui	Professor, Tongji University	China
5	Cheng	Zhanbo	PhD candidate, Warwick University	UK
6	Cui	Yujun	Professor, Ecole des Ponts, Paris-Tech	France
7	Dai	Guo-Liang	Professor, Southeast University	China
8	Daouadji	Ali	Professor, Institut National des Science Appliquees de Lyon	France
9	Deng	Wenni	Lecturer, Southeast University	China
10	Deng	Yongfeng	Professor, Southeast University	China
11	Du	Yan-Jun	Professor, Southeast University	China
12	Feng	Shijin	Professor, Tongji University	China
13	Fu	Zhongzhi	Professor Senior Engineer, Nanjing Hydraulic Research Institute	China
14	Geng	Xueyu	Assistant Professor, Warwick University	UK
15	Gong	Weimin	Professor, Southeast University	China

16	He	Huan	Senior Research Assistant, City University of Hong Kong	HKSAR
17	Hicher	Pierre-Yves	Professor, Ecole Centrale Nantes	France
18	Huang	Wengui	Geotechnical Engineer, Arup Singapore Pte Ltd	Singapore
19	Jia	Junbo	PhD, Aker solution	Norway
20	Jiang	Ningjun	Assistant Professor, University of Hawaii at Manoa	USA
21	Kang	Xin	Professor, Hunan university	China
22	Kong	Gangqiang	Professor, Hohai University	China
23	Lei	Zou	PhD, Nanyang Technological University	Singapore
24	Li	Bo	PhD candidate, University of Cambridge	UK
25	Li	Gang	PhD, Jinan Rail Transit Group Co., Ltd.	China
26	Li	Xia	Professor, Southeast University	China
27	Li	Yangyang	PhD candidate, Nanyang Technological University	Singapore
28	Liu	Bo	Guangdong electric power design institute Co., LTD.	China
29	Liu	Hua-Bei	Professor, Huazhong University of Science and Technology	China
30	Liu	Sihong	Professor, Hohai University	China
31	Liu	Songyu	Professor, Southeast University	China
32	Liu	Xianfeng	Professor, Southwest Jiaotong University	China
33	Liu	Zhibin	Associate Professor, Southeast University	China
34	Kaynia	M. Amir	Professor, Norwegian University of Science and Technology	Norway
35	Qian	Jiangu	Professor, Tongji University	China
36	Saleh Asheghabadi	Mohsen	Assistant professor, Dolat Abad University	Iran
37	Seyedi Hosseininia	Ehsan	Assistant professor, Ferdowsi University of Mashhad (FUM)	Iran
38	Shao	Jianfu	Professor, University of Lille	France
39	Shen	Wanqing	Assistant professor, University of Lille	France
40	Shen	Zhifu	PhD, Nanjing Tech University	China
41	Sounthararajah	Arooran	PhD candidate, Monash University	Australia
42	Tang	Chaosheng	Professor, Nanjing University	China
43	Tian	Longgang	Lecturer, Southeast University	China
44	Tong	Liyuan	Professor, Southeast University	China
45	Wang	Dong	Professor, Ocean University of China	China
46	Wang	Fei	Associate Professor, Southeast University	China
47	Wang	Mingyuan	Professor Senior Engineer, Huadong Engineering Corporation Limited	China
48	Wang	Rui	Lecturer, Tsinghua University	China
49	Wei	Changfu	Professor, Institute of Geotechnical Engineering, CAS	China
50	Wei	Kai	Associate Professor, Southwest Jiaotong University	China
51	Wu	Kai	Lecturer, Southeast University	China
52	Wu	Yongxin	Associate Professor, Hohai University	China
53	Yang	Hongwei	Post-doc, The University of Hong Kong	HKSAR
54	Yang	Wei	Associate Professor, Hunan university	
55	Yang	Zhongxuan	Professor, Zhejiang University	China
56	Ye	Guanlin	Professor, Shanghai Jiaotong University	China

57	Ye	Weimin	Professor, Tongji University	China
58	Yin	Zhenyu	Associate Professor, Ecole Centrale Nantes	France
59	You	Xianhui	PhD, FujianYongfu Power Engineering Co., Ltd.	China
60	Zhai	Qian	Associate Professor, Southeast University	China
61	Zhang	Chunshun	Lecturer, Monash University	Australia
62	Zhang	Dongmei	Professor, Tongji University	China
63	Zhang	Guoping	Professor, University of Massachusetts Amherst	USA
64	Zhang	Guozhu	Associate Professor, Southeast University	China
65	Zhang	Kun	Assitant Professor, Washington State University	USA
66	Zhang	Ning	Associate Professor, Hohai University	China
67	Zhang	Qi	Lecturer, Southeast University	China
68	Zhao	Tengyuan	Postdoctoral Researcher, City University of Hong Kong	HKSAR
69	Zhao	Xue-Liang	Associate Professor, Southeast University	China
70	Zhu	Qi-Zhi	Professor, Hohai University	China
71	Zhuang	Yan	Professor, Southeast University	China

Welcome to Nanjing!