LBS 2026

20th International Conference on Location Based Services

11-13 November, Nanjing, China



Organised by

ICA Commission on Location Based Services

Hosted by

Southeast University

Chinese Academy of Surveying and Mapping

Co-hosted by

UK-China Intelligent Mobility Research Centre, Southeast University

Committee for International Cooperation, Chinese Society for Geodesy, Photogrammetry and Cartography

Committee for Intelligent Transportation, GNSS and LBS Association of China

Committee for Youth Working, Chinese Society for Geodesy, Photogrammetry and Cartography

Working Committee for Remote Sensing Image Application, China Association for Geospatial Industry and Sciences

State Key Laboratory of Comprehensive PNT Network and Equipment Technology

Working Group 1/8, International Society for Photogrammetry and Remote Sensing

11-13 November 2026 • Nanjing, China

Conference committees

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Programme at a glance

11–13 November 2026
Holiday Inn Nanjing Qinhuai South Suites, No. 21 Mozhou East Road, Nanjing, China

11 November · Wednesday

TIME	PROGRAMME
13:00–19:00	Registration desk open
18:30–20:00	Icebreaker

12 November · Thursday

TIME	PROGRAMME
08:30–12:10	Opening and keynote speeches
14:00–17:00	Parallel sessions S01–S04
17:15–18:00	Journal of LBS editorial board meeting (Closed-door)
18:00–20:00	Welcome dinner

13 November · Friday

TIME	PROGRAMME
08:30–11:30	Parallel sessions S05–S08
11:45–12:15	Closing ceremony: Best paper and presentation awards, LBS 2027 announcements, and closing remarks

Parallel session directory

DATE	SESSION	TOPIC
12 November	**S01**	Future LBS & the fifth China-UK-Europe intelligent mobility forum
	S02	Crowdsensing and location intelligence
	S03	Spatiotemporal datums empowering LBS
	S04	Geospatial intelligence and transportation systems
13 November	**S05**	Geospatial science for urban lifeline infrastructure monitoring
	S06	Multi-sensor fusion for positioning and autonomous navigation
	S07	Mobile cartography and human-centred navigation
	S08	Spatial analytics and geospatial applications

Plenary programme

Opening, keynote speeches and closing ceremony

12 November 2026 · Thursday | 08:30–12:10 | Meeting room: Qinhuai Amazing Ballroom, Floor 3

TIME	PROGRAMME AND SPEAKERS	
08:30–08:45	**Welcoming speech** Head of office of international cooperation, SEU, Prof. Chen Wang President of ICA, Prof. Georg Gartner Vice president of FIG, Prof. Qin Yan (Video)	**Moderator:** Prof. Xiaolin Meng
08:45–09:15	**Maps that think, services that understand: A cartographic vision for the future of location-based services** Prof. Georg Gartner	**Chair:** Prof. Xinming Tang
09:15–09:45	**Handling uncertainties in location-based services** Prof. Wenzhong Shi	
09:45–10:15	**Positioning transforming LBS to embodied spatial intelligence** Prof. Ruizhi Chen	
10:15–10:30	**Coffee break and group photo**	
10:30–11:00	**'Location' in location-based services** Prof. Stephan Winter	**Chair:** Prof. Wenzhong Shi
11:00–11:40	**Research agenda on mobile cartography** Prof. Robert Roth, Prof. Amy Griffin and Prof. Haosheng Huang	
11:40–12:10	**China's scientific and technological innovation and international cooperation** Mr. Sunan Jiang	

Closing ceremony

13 November 2026 · Friday | Meeting room: UPark Room, Floor 5

TIME	PROGRAMME	
11:45–12:15	Closing ceremony - Best paper awards - LBS 2027 announcements - Closing remarks	**Moderator:** Prof. Xiangdong An

DETAILED PROGRAMME

S01 Future LBS & the fifth China-UK-Europe intelligent mobility forum

12 November 2026 · Thursday | 14:00–17:20 | Meeting room: UPark Room, Floor 5

Chairs: Prof. Xiaolin Meng, Dr. Roberta Dow, Prof. Vassilis Gikas | Secretary: Mr. Xu He

TIME	PRESENTATIONS AND AUTHORS (PRESENTERS UNDERLINED)
14:00–14:20	**Space technology for supply chain traceability: My review and assessment** Roberta Dow
14:20–14:40	**Hybrid (HAS-PPP) GNSS/INS/5G for urban positioning: From observable characterization to tightly coupled engine development and field validation** Vassilis Gikas
14:40–15:00	**AI-empowered location-based services: Paradigm or paradox?** Simon Roberts
15:00–15:20	**Navigate in demanding missions: Integrating human intelligence and brain-inspired intelligence (Reviewed full paper)** Xu He, Xiaolin Meng, Youdong Zhang, Lingfei Mo, Wenxuan Yin, Xiangdong An, Jingnan Liu
15:20–15:40	Coffee break
15:40–16:00	**From acoustic-emission localisation to location-aware structural health monitoring** Michele Meo
16:00–16:20	**GeoAI-enabled LBS** Rong Qu, Yuwei Guo, Licheng Jiao, Zhuangzhuang Sun, Shuang Wang, Shuo Wang, Fang Liu
16:20–16:40	**Introduction to the ESA CONTACT project in supporting urban mobility** George Ye
16:40–17:00	**Bridging physical and digital cadastres with Pix2Land: A location-anchored augmented reality platform for integrated property health assessment** Trias Aditya

Parallel sessions S01–S04 | All times UTC+8

DETAILED PROGRAMME

S02 Crowdsensing and location intelligence

12 November 2026 · Thursday | 14:00–17:00 | Meeting room: Knowledge Room, Floor 5

Chairs: Prof. Yunbin Yuan, Prof. Shengfeng Gu | Secretary: Mr. Youdong Zhang

TIME	PRESENTATIONS AND AUTHORS (PRESENTERS UNDERLINED)
14:00–14:20	**Exploring human activities in cyber-physical spaces** Xintao Liu
14:20–14:40	**Data-driven localization technologies for complex environments** Fuqiang Gu
14:40–15:00	**AI-assisted integrity monitoring for multi-sensor fusion positioning in complex environments** Weisong Wen
15:00–15:20	**Cloud-terminal interactive GNSS network RTK atmospheric modeling and uncertainty estimation** Wang Gao
15:20–15:40	Coffee break
15:40–16:00	**On the problem of S-basis changes in PPP-RTK satellite phase bias estimation** Pengyu Hou
16:00–16:20	**Corner-guided active exploration navigation for unmanned platforms** Xianlu Tao
16:20–16:40	**LEO-enhanced crowdsourced tropospheric delay correction maps (LEO-CTM): Transforming zenith tropospheric delay from minute-level convergence estimates to second-level convergence and high-reliability parameters** Hongjin Xu
16:40–17:00	**Precision-driven self-organizing vehicular networks for sub-meter satellite positioning** Bo Wang

Parallel sessions S01–S04 | All times UTC+8

DETAILED PROGRAMME

S03 Spatiotemporal datums empowering LBS

12 November 2026 · Thursday | 14:00–17:00 | Meeting room: ULake Room, Floor 3

Chairs: Prof. Tao Jiang, Prof. Vagner Ferreira | Secretary: Ms. Yuqing Ma

TIME	PRESENTATIONS AND AUTHORS (PRESENTERS UNDERLINED)
14:00–14:20	**Cross-domain computing of high-value spatiotemporal data (Invited speech)** Guifei Jing
14:20–14:40	**Hessian-aware camera–IMU spatiotemporal calibration with learned dense geometry** Xingxing Li
14:40–15:00	**Direction-aware tomogram planning for ground robots in multi-level buildings** Zishen Li
15:00–15:20	**Mass-free recovery of geoid changes from satellite line-of-sight gravity differences for time-dependent vertical datums** Vagner Ferreira
15:20–15:40	Coffee break
15:40–16:00	**Accurate and robust personnel positioning technology in complex mining environments based on generative artificial intelligence** Qianxin Wang
16:00–16:20	**BeiDou/GNSS ionospheric scintillation models and their applications in precise positioning** Dongsheng Zhao
16:20–16:40	**A step forward in realization of event-based spatio-temporal information system (Reviewed full paper)** Nina Polous
16:40–17:00	**Intrinsic assessment of OpenStreetMap road data quality** Wangshu Wang

Parallel sessions S01–S04 | All times UTC+8

DETAILED PROGRAMME

S04 Geospatial intelligence and transportation systems

12 November 2026 · Thursday | 14:00–17:00 | Meeting room: Unique Room, Floor 5

Chairs: Prof. Rong Qu, Prof. Jian Zhang | Secretary: Mr. Wenxuan Yin

TIME	PRESENTATIONS AND AUTHORS (PRESENTERS UNDERLINED)
14:00–14:20	**AI4Science in GNSS correction services** Shaojun Feng
14:20–14:40	**Target-ahead detection and dual-channel multi-indicator forward collision warning for vehicles experiencing sudden illumination changes at tunnel entrances** Yun Hao, Jin Wang
14:40–15:00	**GNSS/UWB adaptively robust EKF tightly coupled model for automated guided vehicle (Reviewed full paper)** Duan Yang, Donglin Huang, Jian Wang, Houzeng Han, Qifan Wang
15:00–15:20	**Research on vehicle localization methods based on roadside LiDAR** Lansong Jiang, Xiaolin Meng, Xiangdong An, Kai Zhang, Xuetao Wang
15:20–15:40	Coffee break
15:40–16:00	**Spatial-temporal-semantic knowledge graph framework for explainable traffic accident prediction** KwangHee Jeong, Seula Park
16:00–16:20	**Generating training samples for autonomous driving: From traffic rules to maps** Tianyuan Xiao, Tinghua Ai, Lingrui Yan, Haohua Zheng, Hao Wu
16:20–16:40	**MSTENet: Multi-scale spatial and temporal-enhanced network for driver attention prediction (Reviewed full paper)** Haoran Yang, Shen Ying, Lu Tao
16:40–17:00	**A training-deployment decoupled warehouse navigation system based on hierarchical control architecture and dynamic-static fusion localization** Shan He, Shen Ying, Chaohong Wu

Parallel sessions S01–S04 | All times UTC+8

DETAILED PROGRAMME

S05 Geospatial science for urban lifeline infrastructure monitoring

13 November 2026 · Friday | 08:30–11:30 | Meeting room: UPark Room, Floor 5

Chairs: Prof. Xiangdong An, Prof. Yufeng Zhang, Prof. Craig Hancock | Secretary: Mr. Zhihao Peng

TIME	PRESENTATIONS AND AUTHORS (PRESENTERS UNDERLINED)
08:30–08:50	**Location-enabled intelligent building inspection: Integrating low-cost indoor positioning with semantic digital twins for compliance monitoring** Craig M Hancock, Karen Blay, Yiwen Zhao, Dayou Chen
08:50–09:10	**Communication loss and transportation resilience in connected vehicle environments** Yasir Ali, Karen Blay, Peter Demian
09:10–09:30	**Real-time estimation of inter-system bias with BDS-3 PPP-B2b by repairing the frequent jumps of satellite clock datum** Cancan Wang, Lin Pan
09:30–09:50	**Research progress on space-air-ground-human collaborative PNT system for large-scale deep burial life detection in post-disaster emergency search and rescue** Mingfeng Qin, Shuguo Pan
09:50–10:10	Coffee break
10:10–10:30	**Displacement and attitude monitoring system of Long-Span Bridges** Xiangdong An, Xiaolin Meng, Liangliang Hu, Zhihao Peng, Junjie Liu, Yilin Xie, Fan Zhang
10:30–10:50	**Positioning integrity assessment under ionospheric disturbances** Hao Liu, Dongsheng Zhao
10:50–11:10	**Maps for potential operational integration for search and rescue** Carolyn Fish
11:10–11:30	**Monitoring vegetation recovery in an abandoned mine using multi-temporal UAV multispectral remote sensing** Anqi He, Fu Wu, Lv Zhou, Jianxiong Lao, Fan Jiang, Xiang Huang, Wenguang Wei, Jiao Xu

Supported by the National Natural Science Foundation of China (NSFC).

DETAILED PROGRAMME

S06 Multi-sensor fusion for positioning and autonomous navigation

13 November 2026 · Friday | 08:30–11:30 | Meeting room: Knowledge Room, Floor 5

Chairs: Prof. Guifei Jing, Assoc. Prof. Wang Gao | Secretary: Mr. Junjie Liu

TIME	PRESENTATIONS AND AUTHORS (PRESENTERS UNDERLINED)
08:30–08:50	**Satellite-based augmentation and GNSS/IMU fusion for smartphone lane-level high-precision navigation** Ding Yi
08:50–09:10	**Comprehensive performance evaluation of multi-mode GNSS positioning: Evidence from a multi-national real-world loop campaign across the United Kingdom and Ireland (Reviewed full paper)** Lintong Li, Liangliang Hu, Yilin Xie, George Ye, Washington Ochieng
09:10–09:30	**Earable IMU-based indoor positioning (Reviewed full paper)** Yinqi Zhang, Xu Feng, Mai Nguyen, Zhiyuan Luo, Khuong An Nguyen
09:30–09:50	**Cross-level degeneracy perception for robust LiDAR localization framework** Yang Sun, Xiaolin Meng, Qing Wang
09:50–10:10	Coffee break
10:10–10:30	**Research on key technologies for multi-GNSS precise orbit and clock offset products combination based on a unified reference frame** Xuexi Liu
10:30–10:50	**A LiDAR-inertial-visual odometry method based on Bayesian EM noise estimation (Reviewed full paper)** Jianye Guo, Qiuzhao Zhang, Wenda Wang, Wen Zheng
10:50–11:10	**Adaptive point and directional constraint sampling for robust LiDAR odometry in narrow and elongated environments (Reviewed full paper)** Wenda Wang, Qiuzhao Zhang, Wen Zheng, Jianye Guo
11:10–11:30	**A reservoir computing-based grid cell model for efficient brain-inspired path integration** Youdong Zhang, Xiaolin Meng, Xu He, Xiangdong An

Parallel sessions S05–S08 | All times UTC+8

DETAILED PROGRAMME

S07 Mobile cartography and human-centred navigation

13 November 2026 · Friday | 08:30–11:30 | Meeting room: ULake Room, Floor 3

Chairs: Prof. Rui Sun, Prof. Anthony C. Robinson | Secretary: Mr. Fengyuan Liu

TIME	PRESENTATIONS AND AUTHORS (PRESENTERS UNDERLINED)
08:30–08:50	**Opportunities for expressive geovisualization in mobile cartography** Anthony C. Robinson, Zhaoxu Sui
08:50–09:10	**Virtual environment study of navigation applications supporting building evacuation** Jakub Łobodecki, Dariusz Gotlib
09:10–09:30	**Place-revisit consistency evaluation of reference poses (Reviewed full paper)** Jianzhu Huai, Yujia Zhang, Grzegorz Jozkow
09:30–09:50	**Evaluation for warehouse mobile robots using sparse 2D-code reference points** Chaohong Wu, Shen Ying, Shan He
09:50–10:10	Coffee break
10:10–10:30	**GNSS/Vision/IMU adaptive factor graph fusion in unmanned surface vehicle navigation** Yuan Yang
10:30–10:50	**Label-efficient representative target calibration for cross-environment urban GNSS double-differenced pseudorange error prediction (Reviewed full paper)** Yan Xia, Yaqing Lv, Liwen Yang
10:50–11:10	**Are we lost in the screen? Tracking eye movements and spatial learning in app-based vs. paper map pedestrian navigation** Sus Geeraerts, Peter Kiefer, Haosheng Huang
11:10–11:30	**Performance assessment of S-, C-, and Ka-band LEO augmentation for BDS-3 undifferenced and uncombined PPP ambiguity resolution** Ning Liu, Wujiao Dai

Parallel sessions S05–S08 | All times UTC+8

DETAILED PROGRAMME

S08 Spatial analytics and geospatial applications

13 November 2026 · Friday | 08:30–11:30 | Meeting room: Unique Room, Floor 5

Chairs: Prof. Pan Li, Prof. Xiaoguo Zhang | Secretary: Mr. Ruihang Liu

TIME	PRESENTATIONS AND AUTHORS (PRESENTERS UNDERLINED)
08:30–08:50	**When association is not enough: Explore causal mechanisms of urban mobility resilience under extreme weather** Mengqi Li, Pengyu Meng, Cheng Fu
08:50–09:10	**Machine learning based detection and recovery of UAV navigation spoofing attacks (Reviewed full paper)** Hongyuan Qin, Haiying Liu, Yingfei Xiao, Li Huang
09:10–09:30	**Finding the gaps in bicycle parking: Identifying underserved destinations in Munich from bike-sharing trips** Nils Voß, Andreas Keler, Jukka M. Krisp, Pablo S. Löw
09:30–09:50	**Perceptual Walkability Index (PWI): A conceptual fuzzy logic-based model for walkability index integrating objective and subjective factors** Chenyu Zuo, Pablo S. Löw
09:50–10:10	Coffee break
10:10–10:30	**Spatiotemporal regularity of revisits to functionally similar places: A case study of Beijing** Zidong Fang, Linfang Ding
10:30–10:50	**AR-CVG: Analytic curved volumetric gaussian splatting** Feng Jiang, Qing Wang, Yang Sun
10:50–11:10	**Ambiguity-domain likelihood-based adaptive ionosphere-weighted RTK for fast and precise positioning** Longlei Qiao
11:10–11:30	**Constructing a navigation-ready parcel boundary layer for autonomous agricultural machinery** Lanxi Liu, Cheng Fu

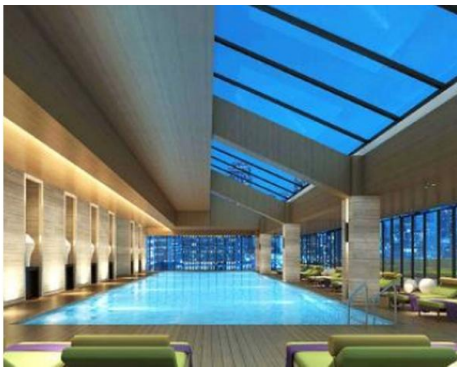
Parallel sessions S05–S08 | All times UTC+8

LBS 2026 / NANJING

Venue and practical information

Hotel, travel, contacts and supporting programmes





Holiday Inn Nanjing Qinhuai South Suites

Conference venue and accommodation

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Nanjing, Jiangsu 211111, China

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Getting here

Metro Line 3 · Mozhoudong Road Station, Exit 2 · About a 2-minute walk.
Nanjing Lukou International Airport · About 25 minutes by taxi.
Nanjing South Railway Station · About 25 minutes by taxi or 15 minutes by metro.

Accommodation

Superior King / Superior Twin / Deluxe Lake View King: CNY 450 per night.
Includes breakfast for one guest, Wi-Fi, service charge and applicable taxes.
Rooms are available on a first-come, first-served basis.

Conference secretariat

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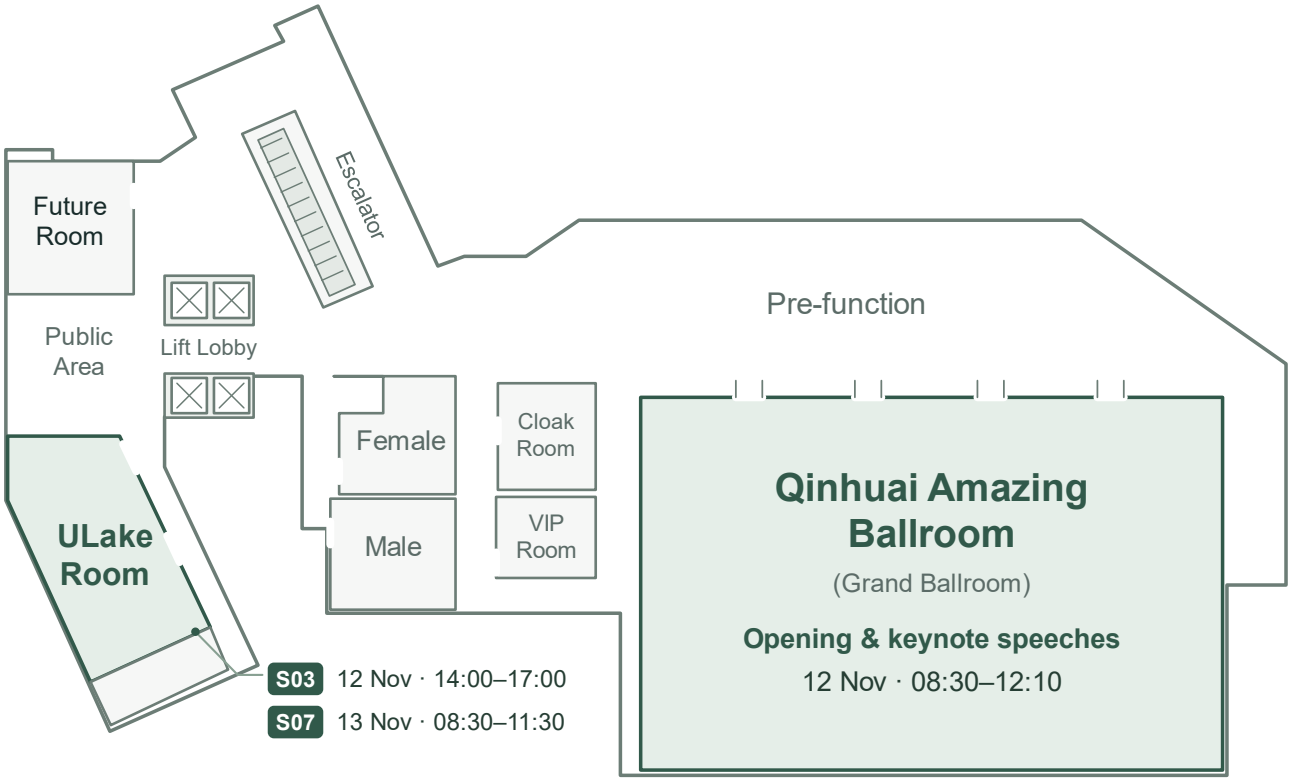
- Office of International Cooperation, Southeast University
- Nanjing Lingyuan Geospatial Technology Co., Ltd., Nanjing, China
- Zhejiang Zhongyu Communication Co., Ltd., Zhoushan, China

LBS 2026 / NANJING

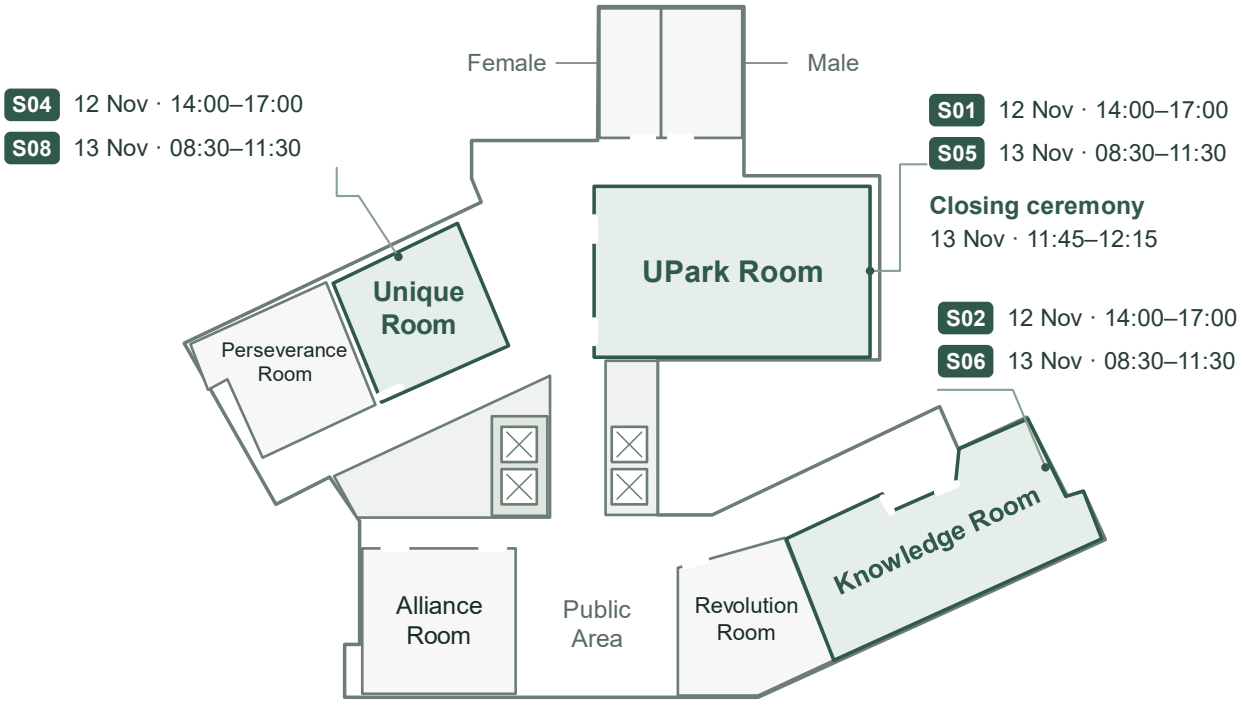
Conference venue map

Holiday Inn Nanjing Qinhuai South Suites

Floor 3



Floor 5



20th International Conference on Location Based Services

11–13 November 2026 | Nanjing, China



Conference website

https://lbs2026.lbsconference.org/

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