

parking

CHINA

Parking China 2024 returns in September to explore innovations in smart parking

Shanghai, 31 July 2024. Parking China 2024 will take place at the Shanghai New International Expo Centre from 3 – 5 September. Running under the theme of “Breaking the boundaries of parking through smart technology”, the fair brings together a strong line-up of smart parking technology and service providers, highlighting cutting-edge technological innovations through on-site demonstrations, technical explanations, and interactive exchanges. Showcases include smart parking management systems, automatic parking, road parking solutions and big data analysis platforms. The show will also explore how the parking industry can achieve sustainability through smart technology, connectivity, and collaboration.

China’s car ownership reached 440 million by the end of June 2024¹, there are currently 96 cities across the country that have over 1 million cars on their roads. As the number of vehicles continues to rise, many local governments are urged to solve the problems associated with urban parking. Meanwhile, the ongoing process of urbanisation has imposed varying degrees of constraint on land resources and their distribution, leading to limitations in the number, size, and location of parking facilities.

From this standpoint, smart parking has become an effective approach to addressing the parking challenges confronting cities. In recent years, numerous Chinese cities, including Beijing and Shanghai, have implemented policies to accelerate the construction of smart parking facilities², for higher overall efficiencies. For example, by leveraging advanced technologies such as the Internet of Things (IoT), big data and cloud computing, smart parking systems can achieve real-time monitoring, intelligent guidance, automated payment, and other enhanced functionalities. This greatly improves the performance and service quality of parking facilities, providing users with a more convenient experience.

Highlighting innovative technologies

Embracing the theme of “Breaking the boundaries of parking through smart technology”, this edition will feature numerous leading companies in the industry, showcasing their latest solutions in smart parking systems, charging and battery swapping solutions, autonomous driving solutions and other innovative smart technologies.

Smart parking systems integrate a variety of cutting-edge technologies, such as the IoT, big data and artificial intelligence (AI), to build an intelligent management system. In doing

¹ “The number of motor vehicles reached 440 million across the country”, People.cn, July 2024, <https://qr.messefrankfurt.com/pbe1f> (Retrieved: July 2024)

² “Beijing and Shanghai propose to accelerate the construction of smart parking facilities”, Insight and Info, February 2024, <https://qr.messefrankfurt.com/c9bad> (Retrieved: July 2024)

so, these systems elevate the parking experience for car owners and also optimise the operational efficiency of these facilities. Some of the key products and solutions include:

- **Parking management platforms:** Utilising technologies such as the IoT, big data and cloud computing, these platforms enable real-time parking space monitoring, dynamic updates of availability information, online payment capabilities and various other enhanced functionalities.
- **License plate recognition and guidance screens:** Using high-definition cameras to capture vehicle license plate information, and employing advanced image processing and AI algorithms, these systems automate vehicle entry and exit identification. The screens display key information in real time, such as the availability of spaces and location guidance, providing drivers with parking assistance.
- **Inspection vehicles:** Equipped with sensors, cameras, and communication tools, these vehicles perform real-time monitoring tasks autonomously or remotely, even in complex environments.
- **Smart Parking Bollard:** Using IoT technology to offer remote control and status monitoring, tackling parking space occupancy issues.
- **Magnetic parking sensors:** Installed underneath the parking space to monitor its occupancy status in real-time.
- **Access control systems:** By integrating license plate recognition, payment capabilities, and other features, these systems provide fully automated and unstaffed parking management.
- **Bluetooth Angle of Arrival (AoA):** This solution adopts Bluetooth Low Energy (BLE) technology to enable high-precision indoor positioning. Through communication between the Bluetooth device installed in the vehicle and the base stations in the parking facility, these solutions can track the vehicle's location in real-time and instantly provide information to both the driver and the parking management system.
- **Self-service car wash:** Offering convenient and affordable self-service car wash service.

With the growing popularity of electric vehicles, drivers have an increasing need for more convenient charging and battery swap services within car parks. **Charging and battery swapping solutions** integrate innovations from multiple sectors, including parking management, power supply, and battery technology, which aim to provide electric vehicle drivers a more convenient, systematic, and secure charging and battery swapping service.

Furthermore, **autonomous driving solutions** leverage a combination of cutting-edge sensor technologies, AI, machine learning, and advanced vehicle control systems. This enables cars to achieve basic assisted driving features, such as adaptive cruise control and automatic emergency braking, and even fully autonomous driving capabilities at SAE Levels 4 and 5, without the need for driver control.

For example, automated parking capabilities enable vehicles to identify available spaces and park precisely. Additionally, intelligent navigation functions automatically plan the shortest route for the driver to reach an available spot, saving the time that would otherwise be spent blindly searching for a space within the facility.

Welcoming leading brands from the parking industry

The show is now open for booth reservations. Notable exhibitors who have already confirmed their participation include: Aituosila, Blueiot, Changjie, Drop parking, Huite, INMOTIONTEC, Jiangsu Ruolin, JOYTECH, Jushi, Qianling, Shanghai CTP, SuZhou Transpeed, Washingduck, Weishi Intelligent, Wujie Wisdom, Xiaoju Charging, Yiting Wuyou, and UOZO.

For information about booth reservation, please visit <https://parking-china.hk.messefrankfurt.com/shanghai/en/planning-preparation/exhibitors.html>

For visitor reservation, please visit <https://parking-china.hk.messefrankfurt.com/shanghai/zh-cn/planning-preparation/visitors.html>

For the latest updates about the fair, please visit www.smartparkingchina.com, follow us on WeChat at “ParkingChina_MF” or send an email to parking@china.messefrankfurt.com.

To find out more about Shanghai Intelligent Building Technology, Shanghai Smart Home Technology and Shanghai Smart Office Technology, please visit www.building.messefrankfurt.com.cn.

The shows are also part of Messe Frankfurt’s Building Technologies fair portfolio. For more information on Building Technologies worldwide, please visit <https://building-technologies.messefrankfurt.com>.

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Background information on Messe Frankfurt

The Messe Frankfurt Group is the world's largest trade fair, congress and event organiser with its own exhibition grounds. With a workforce of some 2,300 people at its headquarters in Frankfurt am Main and in 28 subsidiaries, it organises events around the world. Group sales in financial year 2023 were around € 609 million. We serve our customers' business interests efficiently within the framework of our Fairs & Events, Locations and Services business fields. One of Messe Frankfurt's key strengths is its powerful and closely knit global sales network, which covers around 180 countries in all regions of the world. Our comprehensive range of services – both onsite and online – ensures that customers worldwide enjoy consistently high quality and flexibility when planning, organising and running their events. We are using our digital expertise to develop new business models. The wide range of services includes renting exhibition grounds, trade fair construction and marketing, personnel and food services.

Sustainability is a central pillar of our corporate strategy. Here, we strike a healthy balance between ecological and economic interests, social responsibility and diversity.

For more information, please visit our website at: www.messefrankfurt.com/sustainability

With its headquarters in Frankfurt am Main, the company is owned by the City of Frankfurt (60 percent) and the State of Hesse (40 percent).

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