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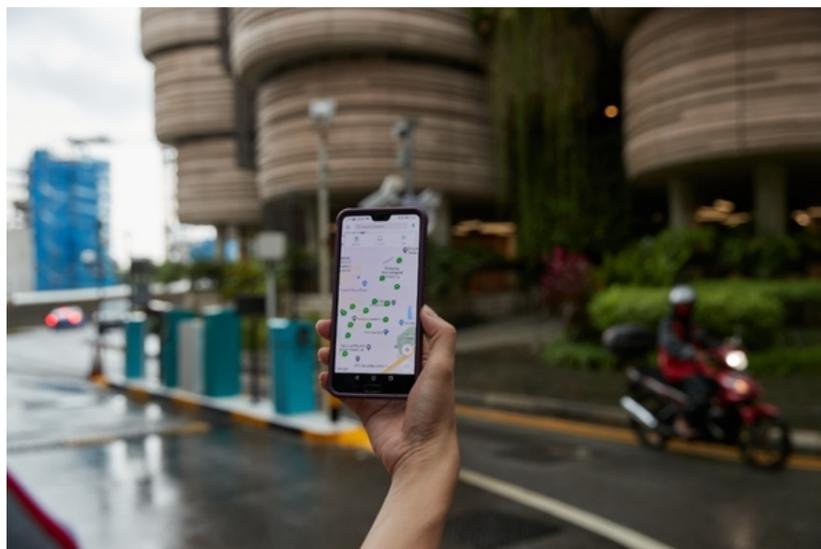


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Singapore launches barrier-free smart car park

News 14 Sep 2020 by SmartCitiesWorld news team

Developed by the electronics arm of ST Engineering, the system is paired with the GoParkin mobile app and integrates technologies such as automatic number plate recognition and data analytics.



The smart car park system in action. Image: Nanyang Technological University

Nanyang Technological University, Singapore (NTU Singapore), and ST Engineering have launched a barrier-free smart car park intended to make parking easier and more convenient across NTU's multiple campuses.

Reported to be the first smart car park system in Singapore, the ticketless and barrier-free parking solution was developed by the electronics arm of ST Engineering.

Mobile payment technologies

Paired with the GoParkin mobile app, the system integrates technologies such as automatic number plate recognition, data analytics and mobile payment technologies to help motorists overcome issues encountered in conventional car park systems, according to the partners.

They also claim the system will deliver "significant operational and maintenance" cost-savings to car park operators and key insights on the usage of their car parks.

The barrier-free system has started operating at three car parks on NTU's main Jurong campus. The system will be progressively implemented at all 59 car parks in the university's campuses including Novena and one-north, and will cover more than 4,000 parking lots when completed by the end of 2021.



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“The new smart car park system platform is an example of yet another innovation that improves everyday life through technology-enabled solutions. This is in line with the NTU Smart Campus vision whereby we harness the power of technology in a sustainable manner to improve the quality of life of members of our community,” said professor Subra Suresh, president of Nanyang Technological University.

“The smart car park technology will enable us to enhance the experience of visiting, living and working at NTU for our students, employees and guests. It will also give us better insights and data analytics to improve our services while reducing cost.”

To benefit from the system features, motorists register via the GoParkin mobile app and provide the required details and credit/debit card information to their account. When motorists use a smart car park, their registered number plate will be recognised, providing them with seamless entry and exit. The correct parking fee will be calculated at exit and billed to their account.

“Smart car parks manage parking in a more effective and sustainable way, reducing air pollution and traffic congestion which improve motorists’ experience”

The system also aggregates parking data and provides real-time information on car park occupancy via the GoParkin app. Motorists are pointed to the closest available parking spots with car park rates, saving them time in searching for available car park lots. Motorists can also conveniently apply and pay for season parking via the app.

Car park operations

In addition, NTU expects to realise significant savings by reducing operational and maintenance costs via the smart car park system. The cloud-based platform enables centralised management and control of car park operations, providing the university with an overview of parking occupancy records and an asset management module to help identify preventive maintenance that can extend the value of equipment and prevent costly downtime.

“Smart car parks manage parking in a more effective and sustainable way, reducing air pollution and traffic congestion which improve motorists’ experience,” added Ravinder Singh, president of ST Engineering’s Electronics arm.

“Beyond these, insights on car park usage can potentially generate new value-added services for motorists and transform business models for car park operators. Smart car parks are integral to the smart cities of the future.”

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