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(57) Abstract :
A system (100) and a method (200) for parking assistance is provided. The system (100) involves a machine learning component (108), an occupancy monitoring system (110), and an user interface (112) for smart parking assistance. The system 100 helps reduce the time spent searching for parking. The user interface of the system 100 enables drivers to easily access real-time information on parking availability, reserve parking spots in advance, pay for parking, and receive notifications. The system (100) enables parking resources to be allocated proactively, ensuring that there are sufficient spaces available when demand is expected to be high. The system (100) can communicate and integrate with other smart city infrastructure systems, such as traffic management systems and public transportation systems. The system (100) provides businesses with valuable insights into parking occupancy rates, demand, and revenue generation.

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