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Implementation of Agent Based Smart Parking System using IoT

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Abstract: *Due to the increasing number of automobiles on the roads worldwide, parking space problems have arisen in many areas, causing people to spend a considerable amount of time searching for a place to park. This study proposes a smart mobile parking booking system utilizing an agent-based model. The algorithm considers the driver's location, speed, desired destination, preferred parking charge, and arrival time, to determine the most suitable and available parking spot for them. The agent-oriented approach is utilized to represent the system, with each agent responsible for addressing a particular issue.*

Keywords: Smart parking system, Agent-based modeling, Agent-based parking systems, Internet of Things, Smart Devices, Raspberry Pi

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