

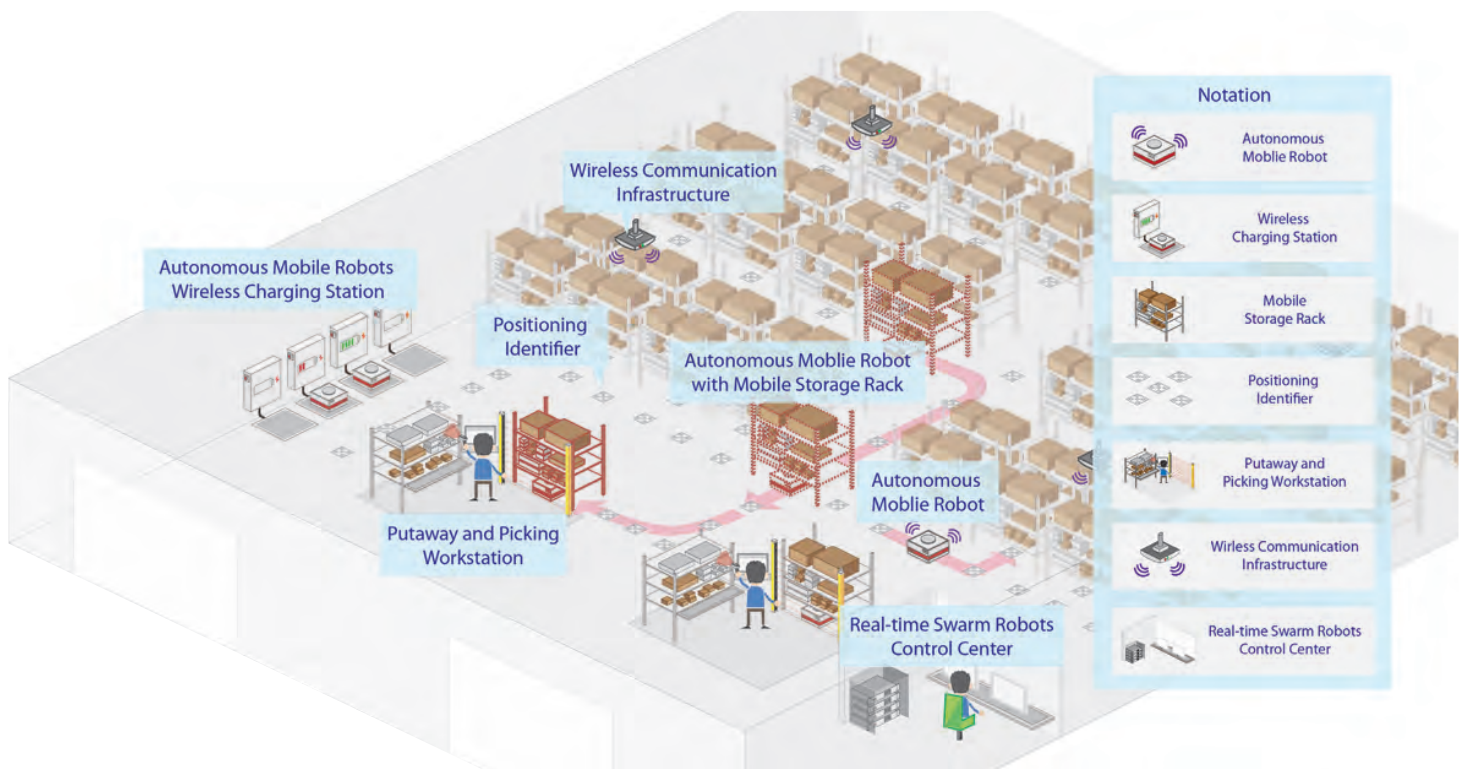
Industrial IIoT-based Smart Robotic Fulfillment System

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In response to the growing demands from the e-commerce, advanced swarm intelligent algorithms to provide autonomous and self-coordinated Unmanned Ground Vehicles (UGVs) was developed. By applying the "Swarm Robot Strategy", UGVs are assigned with specific role in the order fulfilment operation. This helps to increase productivity and efficiency of the fulfilment center. "Rack Defragment Optimization" approach is adopted to pre-organize the racks' location to reduce UGVs' traveling distance. Therefore, the productivity and fulfillment rates are enhanced.

Special Features

- Offers a "Simulation Mode" for top-management to model, analyze, plan and predict future situation and supports decision making on investment of spaces, labors and equipment for fulfillment center
- Provides a comfortable and safe working environment for operators and the utilization of labor can be optimized to solve the labor shortage in logistics industry



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