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## **Autonomous Guided Vehicles: Methods and Models for Optimal ...**

Sometimes called self-guided vehicles or autonomous guided vehicles, automated guided vehicles (AGVs) are material handling systems or load carriers that travel autonomously throughout a warehouse, distribution center, or manufacturing facility, without an onboard operator or driver.

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Introduction. Connected and autonomous vehicles (CAVs) have the potential to dramatically

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change the way people live, work and travel in cities (Lu, Du, Dunham-Jones, Park, & Crittenden, 2017). Navigation of CAVs will be fully automated in their most advanced stage, making driver engagement with driving tasks obsolete, or illegal (Krueger, Rashidi, & Rose, 2016).

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An automated guided vehicle or automatic guided vehicle (AGV) is a portable robot that follows along marked long lines or wires on the floor, or uses radio waves, vision cameras, magnets, or lasers for navigation. They are most often used in industrial applications to transport heavy materials around a large industrial building, such as a factory or warehouse.

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An Autonomous Guided Vehicle is a mobile robot typically used to automate the transportation of goods/materials between stations, processes and locations on the shop floor. These vehicles use floor markings, optical sensors or laser technology to navigate the environment.

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Autonomous Guided Vehicles The local warehouse business has been challenged by increasing costs in manpower and floor areas. There is also additional pressure to provide more value-added services, such as handling small orders for e-commerce.

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This book provides readers with extensive information on path planning optimization for both single and multiple Autonomous Guided Vehicles (AGVs), and discusses practical issues involved in advanced industrial applications of AGVs.

### **Automated guided vehicle - Wikipedia**

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This brief presents an optimization-based method to calculate such trajectories for autonomous vehicles operating in an uncertain environment with moving obstacles. The proposed approach applies to linear system models, as well as to a particular class of nonlinear models, including industrially relevant vehicles, such as autonomous guided vehicles with front wheel, differential wheel, and ...

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The autonomous guided vehicle 100 is configured (FIG. 9, Block 910) by selectably coupling one of the logistic or material handling accessory module(s) 150 with the module unit 121 so as to change the logistic or material handling autonomous guided vehicle type from a first logistic or material handling autonomous guided vehicle type to a second logistic or material handling autonomous guided ...

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involved in advanced industrial applications of AGVs.

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