

# Customized Mobile Robotics Newsletter

**ROBTEC** Mobile Robotics  
ROBOTIC SERVICE

Newsletter from the Entire Web - Oct. 26--Nov. 1

## [Chinese Patent Grant Awarded for Four-Wheel Independent Suspension System Applied to Mobile Robot](#) Branded Newsletter Sample

China Patent News | Fri, 01 Nov 2024

Beijing, Nov. 1 -- Jiangyin Cuike Intelligent Manufacturing Tech and Hust Wuxi Res Institute have received a patent on four-wheel independent suspension system applied to mobile robot. This invention was developed by Huang Yuanhai, Zou Xinjue, Liu Qiang, Chen Chunxiao, Zhang Kai, Song Xin and Wang Zheng.

## [Robert Bosch GmbH Submits Patent Application Titled Method for Transmitting Data Between a Mobile Robot and an External Device](#)

WIPO Patent News | Fri, 01 Nov 2024

Geneva, Nov. 1 -- Robert Bosch GmbH has submitted a patent application for method for transmitting data between a mobile robot and an external device. This invention was developed by Rothacker Elisa, Gaessler Gabriel, Dumbill Martin, Visel Benjamin and Winkler Thomas.

## [AI Brings Vision-Guided Robotics Far Beyond Pick-and-Place](#)

Quality Magazine | Fri, 01 Nov 2024

As consumers demand higher-quality goods at steadily increasing volumes, the chief benefits of industrial automation, accuracy, and consistency become more important to businesses worldwide with each passing day.

## [QUASI ROBOTICS UNVEILS MODEL C2 LARGE OPTION WITH EXPANDED SHELF CAPACITY](#)

Einnews.com | Fri, 01 Nov 2024

Quasi Robotics, the developer of autonomous mobile robots (AMRs) behind the leading C2 Robotic Cart for material transport, today announced the highly anticipated launch of the Model C2 Large, a larger and more versatile addition to its acclaimed Model C2 line.

### **The Future of Encoders in Robotics: Trends and Innovations**

TechBullion | Fri, 01 Nov 2024

As technology continues to progress at an unmatched speed, the role of encoders in robots has become increasingly crucial. Encoders are devices that convert motion into an electrical signal. Control systems use this signal to track and manage motion.

### **Advantech partners with oToBrite to create low-latency AI for AMRs**

THE ROBOT REPORT | Fri, 01 Nov 2024

oToBrite Electronics Inc. this week announced a strategic partnership with Advantech to co-develop high-performance and cost-effective perception for mobile robots. oToBrite will bring its experience with artificial intelligence, machine vision, and automotive-grade cameras, while Advantech will provide expertise with global industrial Internet of Things.

### **New storage, logistics facility exceeding expectations**

Engineering News | Fri, 01 Nov 2024

The new premises of independent logistics service provider Seabourne Logistics, which was meant to be a 11 000-pallet capacity contemporary office and warehouse complex, is now a comprehensive logistics facility accommodating 13 500 pallets, and has surpassed all expectations in the months since its opening last year.

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### **Advantech Unveils AFE-R360: A Next-Generation AMR Solution with MIPI-CSI & GMSL Camera Integration Powered by Intel(R) Core Ultra**

AsiaOne | Fri, 01 Nov 2024

Advantech (TWSE: 2395), a global leader in AIoT and Edge Computing, is thrilled to introduce the AFE-R360. The AFE-R360 focuses on Autonomous Mobile Robot (AMR) and robot market, designed to meet the evolving demands for vision sensors and performance.

### **Robot logistics startup Nexobot lands \$400,000 pre-Seed raise**

Startup Daily | Fri, 01 Nov 2024

Robotics startup Nexobot has raised \$400,000 in pre-Seed funding to deliver an affordable solution for order fulfilment in smaller warehouses. The round was backed by Skalata and Antler, to help smaller retailers and others compete against the multi million-dollar robotic systems deployed by the likes of Amazon.

### **Technical limitations of Organic Human-Robot Interaction (O-HRI) for mobile robots moving amongst humans**

IEEE 21st International Power Electronics and Motion Control Conference | Thu, 31 Oct 2024

There is a growing need to make human-robot interaction natural. Its principles were summarized by psychologists under the name O-HRI. If we want to extend the O-HRI concept to mobile robots moving between people, then the most important feature is the indication of intent.

## Robots in Logistics Boom Worldwide VDMA Reports

Business Wire | Thu, 31 Oct 2024

The demand for robots for transport and logistics is increasing: Almost 113,000 robots were sold for transport and logistics tasks in 2023 up 35%. These results are published by VDMA Materials Handling and Intralogistics Association in cooperation with the IFR.

## Japanese inventor makes 6 robotic clones: Are we ready?

YourStory | Thu, 31 Oct 2024

Imagine stepping into a room filled with lifelike robots that resemble a person. Now picture these humanoids engaging in meaningful conversations, expressions and thoughts with uncanny accuracy. This is the reality brought to life by Hiroshi Ishiguro, a Japanese inventor who has taken the art of robotics to new heights by creating 6 clones of himself!

## Locus Robotics Reaches Unprecedented 4 Billion Units Picked, Cementing Industry Leadership

Finanznachrichten | Wed, 30 Oct 2024

Locus Robotics, a global leader in autonomous mobile robots (AMRs) for warehouse automation, today announced a major milestone as its AMR solutions worldwide have now picked an industry-first four billion units across its global customer deployments.

## Tesla has a need for SSD speed as reports say it's talking to

Blocks and Files | Wed, 30 Oct 2024

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Tesla is reportedly talking to SK hynix about a potential 1 trillion (\$725 million) order for the high-capacity SSDs it will need to store data for its AI training supercomputers. This is according to a report by the Korea Economic Daily, whose chip industry sources reckon the storage product in question is SK-hynix-owned Solidigm 61.

## Univ Shanxi Agricultural Got Patent Approval for Mobile Robot Pesticide Spraying Device

China Patent News | Wed, 30 Oct 2024

Beijing, Oct. 30 -- Univ Shanxi Agricultural today announced that it has been granted patent approval for mobile robot pesticide spraying device by State Intellectual Property Office of China. Yin Yudong, Li Yingying, Li Xue and Wang Li developed the invention.

## Optimization design method for typical grassland perception robot system

Memetic Computing | Wed, 30 Oct 2024

This study introduced a perceptive robot system optimization method and framework designed specifically for grassland ecological monitoring, focusing on improving data collection efficiency and prediction accuracy. This study first took the grassland perceptive robot as the object to establish its kinematics and dynamics model.

## Optimizing actual PID control for walking quadruped soft robots using genetic algorithms

Nature | Tue, 29 Oct 2024

The construction of soft robots models and controllers remains a significant challenge. In this paper, we propose a new walking control method for the quadruped soft robot named genetic algorithm-optimized PID.

## Meet the next generation of humanoid robots

The Globe and Mail | Tue, 29 Oct 2024

In Flowery Branch, Georgia, an hours drive from Atlanta, robots designed to look and move like humans are unpacking and moving boxes in a warehouse run by logistics company GXO.

## Nvidia: Shaping the Rise of AI Humanoid Robots

Technology Magazine | Tue, 29 Oct 2024

Nvidia, Tesla & tech giants invest billions in AI-powered humanoid robots, aiming to revolutionise manufacturing, healthcare and logistics. The concept of humanoid robots working alongside humans is moving from science fiction to reality.

## U.S. Patent and Trademark Office Releases Intel Corp Patent Application for Autonomous Navigation System for Mobile Robots

US Patent News | Tue, 29 Oct 2024

Alexandria, Oct. 29 -- U.S. Patent and Trademark Office has released Intel Corp patent application for autonomous navigation system for mobile robots. This invention was developed by Campos Macias Leobardo.

## Trajectory error compensation method for grinding robots based on kinematic calibration and joint variable prediction

Robotics and Computer-Integrated Manufacturing | Tue, 29 Oct 2024

Trajectory accuracy, a crucial metric in assessing the dynamic performance of grinding robots, is influenced by the uncertain movement of the tool center point, directly impacting the surface quality of processed workpieces. This article introduces an innovative method for compensating trajectory errors.

## Toyota Jidosha KK Files Patent Application on Operation Device and Mobile Robot

US Patent News | Tue, 29 Oct 2024

Alexandria, Oct. 29 -- U.S. Patent and Trademark Office has filed patent application in U.S. Patent and Trademark Office on operation device and mobile robot. Sakamoto Takumi, Oda Shiro and Matsui Takeshi developed the invention.

## oToBrite Joins Forces with Advantech to Revolutionize Autonomous Mobile Robot (AMR) with High-Performance Vision-AI Solutions

PR Newswire | Tue, 29 Oct 2024

oToBrite, a leading provider of vision-AI ADAS and automotive-grade cameras has announced a strategic partnership with Advantech, a global industrial IoT pioneer, to co-develop high-performance and cost-effective solutions for Autonomous Mobile Robot (AMR).

## Adopt AI, ESG adoption in transport and logistics: SFAAZ

Zimbabwe Situation | Mon, 28 Oct 2024

Speaking during the SFAAZ Transport and Logistics Awards held last Friday in Harare, Dube said AI and ESG adoption could catapult the transport and logistics sector. SHIPPING and Forwarding Agent Association of Zimbabwe (SFAAZ) chief executive officer Washington Dube has urged players to prioritise environmental

## Relay Robotics proposes levels of autonomous navigation for indoor robots

THE ROBOT REPORT | Mon, 28 Oct 2024

When we think of autonomous navigation, the first thing that usually comes to mind is self-driving cars. Although their development has spanned decades, recent years have seen significant advancements. One important framework that is used ubiquitously in the self-driving car industry is the classification of levels of driving automation.

## Decentralized fault-tolerant control of multi-mobile robot system addressing LiDAR sensor faults

Nature | Mon, 28 Oct 2024

The control of multi-robot formations is a crucial aspect in various applications, such as transport, surveillance and monitoring environments. Maintaining robots in a specific formation pose or performing a cooperative task is a significant challenge when a fault occurs among any of the robots.

## NaoTrac to Redefine Surgical Navigation Robotics at MEDICA 2024

PR Newswire | Mon, 28 Oct 2024

NaoTrac, Brain Navi Biotechnology's flagship autonomous surgical navigation robot, is set to take center stage at MEDICA 2024, the world's largest medical trade fair, held in Düsseldorf, Germany, from November 11-14.

## Branded Newsletter Sample

## Shanghai Chaifu Robot Granted Chinese Patent for Heavy-Load Dual-Drive Speed Reducer

China Patent News | Mon, 28 Oct 2024

Beijing, Oct. 28 -- Shanghai Chaifu Robot has been granted a patent for heavy-load dual-drive speed reducer. This invention was developed by Chen Bao, Wei Hongfu, Li Nanhai, Wang Haiyong and Liu Jinwei.

## Your arsenal for last-mile delivery: How to stay ahead of the curve

The Africa Logistics | Mon, 28 Oct 2024

In today's fast-paced e-commerce and logistics environment, last-mile delivery is the final, crucial step that determines the overall customer experience. As consumers increasingly expect faster, more reliable deliveries, logistics companies need a robust 'arsenal' of strategies, technologies, and practices to stay ahead of the competition.

## Meta Unveils Lightweight Llama 3.2 Models for Mobile and Edge AI

WinBuzzer | Sat, 26 Oct 2024

Meta AI has introduced quantized versions of its Llama 3.2 models, expanding mobile and edge AI capability with compact designs. The new 1B and 3B parameter models are optimized to run efficiently on devices with limited power and memory resources, using 4-bit quantization to cut memory usage by 41% and speed up processing by up to four times.

## Application of Path Planning and Tracking Control Technology in Mower Robots

Agronomy | Sat, 26 Oct 2024

Path planning and tracking is the most basic technology for mowing robots, among which the performance of algorithms has a great impact on their intelligence and efficiency. Based on the research of relevant references on mower robots, it mainly focuses on complete coverage path planning

**Robert Bosch Secures Patent for System and Method for Detecting Virtual Points and Ascertaining Virtual Planes for Autonomous Navigation of a Movable Robotic Unit, and Robotic System Including the Robotic Unit**

US Patent News | Sat, 26 Oct 2024

Alexandria, Oct. 26 -- Robert Bosch has secured a patent on system and method for detecting virtual points and ascertaining virtual planes for autonomous navigation of a movable robotic unit, and robotic system including the robotic unit. Sabzevari Reza, Arndt Charlotte and Civera Javier developed the invention.

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