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Neural networks and self-learning AI make autonomous driving for buses cost-efficiently possible

New application possibilities and lower costs - this is how the Israeli AI start-up Imagry advertises its Mapless Autonomous Driving solution.

A new software generation can bring the breakthrough: location-independent autonomous driving, no costly mobile phone infrastructure and fees, no space-consuming data storage, but instead a self-learning AI: this significantly reduces the costs for autonomous driving features for Level 3 and 4.

Premiere for Imagry in Hall 11 Stand 1164d at Busworld Europe

When the Israeli start-up Imagry aims to give autonomous driving a new boost at the world's largest bus trade fair, Busworld in Brussels, from 7 October, it will present an innovative AI-driven technology that is already proving its worth in initial operations.

Two key building blocks make this technological advance possible: a real-time image recognition system that uses video footage to create a reliable top-down view of the vehicle's surroundings, and a spatial DCNN (Deep Convolutional Neural Network) that learns how to drive by mimicking human driving behaviour.

Imagry's software solution enables the autonomous vehicle to understand the road as it drives and react to dynamic contexts and environments, just like an experienced human driver. Therefore, the use of an autonomously driving bus or shuttle is no longer dependent on the creation of high-resolution digital maps of roads or the surrounding area, which are time-consuming and personnel-intensive, and on the existence of a cellular connection to the vehicle for data traffic.

First pilot programmes in operation

The new technology will be used in two pilot programmes for autonomous bus and shuttle services. The first is a shuttle bus that will be used at the Sheba Medical Center in Israel, the largest medical centre in the Middle East. The medical centre campus is about 200 hectares, roughly the size of a small village.

The second programme involves an autonomous bus that can travel on a public road. This bus will be integrated into an existing bus line in Nahariya, Israel. The idea is to use Imagry's technology to solve the problem of bus driver shortage in Israel, a problem Israel shares with the whole world. Both programmes are supported by the Israel Innovation Authority.

Imagry's technology premiere at Busworld2023 in Brussels

Imagry will be showcasing its new AI and software package for autonomous buses and shuttles at Busworld 2023 at the Brussels Expo in Hall 11, Stand 1164d, and will be speaking about the details of the various pilot projects for autonomous driving buses as part of the Digital Enhanced Driving panel discussion taking place there at the Digital Mobility Solutions Conference on Wednesday 11 October.

About Imagry

Imagry (www.imagry.co) was founded in 2015 for high-end computer vision applications and has specialised in the automotive sector since 2018. The bio-inspired technology combines a real-time vision-based perception network and mimicking artificial intelligence (AI) for a driving decision-making network that is economical, easily deployable and scalable. This eliminates the need for external digital mapping of roads and cities. It can be installed in cars as well as buses and shuttles. A well-known German supplier is using it for its autonomous driving platform.

Photos of the Imagry Mapless Autonomous Driving Software being used in autonomous buses in Israel are attached.

I would be happy to arrange an interview with Eran Ofir, CEO of Imagry at Busworld.

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