Spain leading artificial intelligence applied to traffic sensing with a revolutionary solution

OPUS develops a revolutionary system that converts common cameras into smart cameras, monitoring multiple parameters of each vehicle by artificial vision in real time and integrating this information with the remote measurement of each vehicle real-driving emissions.

Madrid, November 6, 2024. OPUS RSE, a leading traffic technology company, has developed a proprietary Artificial Intelligence solution that completely transforms the way in which urban and interurban traffic can be controlled and improved. This new solution provides the main visual characteristics of each vehicle in real-time, together with its real tailpipe emissions reading, a crucial step in creating a cleaner and more sustainable future.

Opus Sensing Drive© technology

Opus Sensing Drive© technology consists of an artificial vision kit that can be integrated into different cameras on the market, turning them into smart cameras automatically. This solution takes advantage of Deep Learning and Edge Computing solutions, processing the video from the cameras in real time, providing key information about each vehicle as it passes:

- ✓ Immediate identification of vehicle type (car, van, motorcycle, truck, bus, etc.).
- ✓ Reading of the vehicle's license plate.
- ✓ Measurement of vehicle speed and acceleration.
- ✓ Calculation of the vehicle specific power, VSP.
- ✓ Identification of the vehicle body colour, makeand model
- ✓ Identification of the background colour of the vehicle's licence plate.

This new AI technology can be integrated with the RSD, which instantly and accurately measures the CO, NOx, HC, NH3 and PM levels of each vehicle. This unique capability makes OPUS a global leader for the analysis of actual traffic emissions in real-world conditions.

Key features

- ✓ **Real-Time Monitoring:** Opus Sensing Drive© uses artificial vision to remotely capture and analyze vehicle parameters as the vehicle drives by the sensing site, providing real-time data without the need for human intervention.
- ✓ **Compatibility with Conventional Cameras:** The technology turns ordinary cameras into advanced sensors, optimizing existing infrastructure without requiring additional investments in new devices.

- ✓ **Focus on Sustainability:** By integrating vehicle information with emissions measurement, the system promotes more sustainable mobility and facilitates the implementation of environmental policies in the urban environment.
- ✓ **Adaptability and Scalability:** The solution is adaptable to different environments and types of traffic conditions, from urban areas to high-speed roads, and is scalable to multiple situations.
- ✓ **100% Spanish development:** The Artificial Intelligence technology developed by OPUS RSE is 100% Spanish, no third-party code is used.

With this technology, OPUS RSE is positioned as a leader in the use of artificial intelligence applied to traffic, allowing regulatory bodies and traffic managers to optimize emissions control and improve road safety efficiently and in real time.

For more information, visit www.opusrse.com

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