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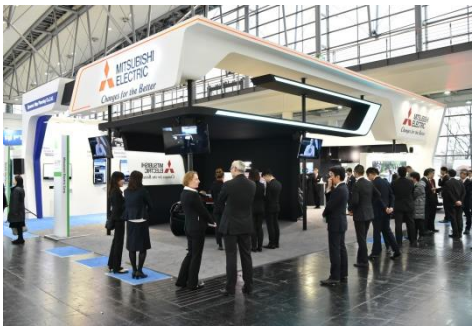
Mitsubishi Electric showcased 3D mapping technologies, a voice activated drawing application and a concept car for autonomous driving at CeBIT 2017

Mitsubishi Electric Develops Technologies for Autonomous Driving

Mitsubishi Electric presented a broad range of solutions which contribute to the high-level of accuracy required for autonomous driving at CeBIT 2017 in Hannover, Germany. Combining artificial intelligence and proprietary Mobile Mapping System could help to accelerate autonomous driving. A system which creates precise 3D street maps for safe autonomous driving, a concept car which uses advanced driver assistance systems and an innovative communication application, which breaks down barriers between people speaking languages unknown to one another or those who are hearing impaired, were some of the highlights presented by Mitsubishi Electric at CeBIT 2017.



Technology creating 10 times faster 3D road maps

In automatic mapping technology, three-dimensional maps are prepared precisely and rapidly by means of artificial intelligence. Mitsubishi Electric's Mobile Mapping System uses a combination of sensors, cameras and lasers mounted on a car roof to collect data in real-time to create centimeter-accurate 3D maps. Mitsubishi Electric's MMS provides 3D positional information of roads and roadside structures with an absolute precision

within 10cm or less, which is collected via a system consisting of laser scanners, cameras and GPS antennas, while driving. AI improves the precision of extraction and recognition of the only data necessary, resulting in some 10 times faster map creation compared to industry-standard manual creation. The system also costs less than conventional methods.

By automatically extracting characteristic points of past data and the latest laser-point cloud data measured with MMS, the difference extraction technology is able to distinguish differences and changes where characteristic points do not match. Thanks to this technology, the maintenance of dynamic maps and the updating of precise 3D maps can be accomplished much faster by automatic extraction of only the points that has changed, compared to updating the entire map each time.

New solutions for safe autonomous driving

Mitsubishi Electric intends that the technologies about the creation, maintenance and updating of three-dimensional maps that provide constantly updated, static and high precise information of roads, traffic signals, surrounding objects and vehicles to form the basis for dynamic maps indispensable for autonomous driving. Moreover, the company aims to offer centimeter-level positioning data required for safe autonomous driving with Quasi-Zenith Satellite System and high precision locator technology exhibited in the fair.

Concept car designed as the pioneer of autonomous driving

Introducing first at CeBIT EMIRAI xDAS 3.1, a concept car which has been designed to be the precursor of autonomous driving, Mitsubishi Electric offers visitors a hands-on experience of the future of driving through this concept car in which a range of innovative driver assistance technologies are used together.

The words which are spoken for the first time in the world are transferred to screen

Another new technology developed by Mitsubishi Electric is an innovative communication application which breaks down the barriers between people speaking different languages, or for those who are hearing impaired. The 'Voice Activated Drawing Application' produces spoken words along the finger path drawn across a tablet display, and is a world-first for this type of application. In combination with innovative drawing and translation features the application allows for easier and more intuitive communication.

About Mitsubishi Electric Corporation

With over 95 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communication systems, space development and satellite communications, consumer electronics, industrial technology, as well as in products for the energy sector, transportation and building equipment. Embracing the spirit of its corporate statement, Changes for the Better, and its environmental statement, Eco Changes, Mitsubishi Electric endeavors to be a global, leading green company, enriching society with technology. The company recorded consolidated group sales of 4,394.3 billion yen (US$ 38.8 billion) in the fiscal year ended March 31, 2016. For more information visit: www.MitsubishiElectric.com*

** Calculated at an exchange rate of 113 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2016*

About Activities of Mitsubishi Electric in Turkey

The main activity fields of Mitsubishi Electric in Turkey are comprised of the sales and after sales services of air conditioning systems, factory automation systems, CNC mechatronics systems and advanced robot technologies. The company also gives support to satellites, elevator, visual data systems, power supplies and transportation linked infrastructure works. Mitsubishi Electric, the producer of Turksat 4A and 4B satellites which contribute in the communication and broadcasting infrastructure of Turkey and neighboring countries, draws attention with automation technology used in Marmaray project besides satellites. Having established household type air conditioner development and production company in Turkey in April 2016, Mitsubishi Electric is preparing to manufacture at Manisa factory in January 2018. For more information visit: tr.mitsubishielectric.com