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Changes for the Better

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FOR IMMEDIATE RELEASE

Mitsubishi Electric Unveils Six New Technologies at Annual R&D Open House

TOKYO, Feburuary 13, 2019 - Mitsubishi Electric Corporation (TOKYO: 6503) announced six new technologies, outlined below, at its annual Research and Development Open House held today at its headquarters in Tokyo, Japan, including three artificial intelligence (AI) technologies using the company's proprietary Maisart®* AI.

* Mitsubishi Electric's AI creates the State-of-the-ART in technology ◀ Maisart

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No. 3253

Mitsubishi Electric R&D Strategy

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Full release text: https://www.MitsubishiElectric.com/sites/news/2019/pdf/0213-a.pdf

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No. 3254

Mitsubishi Electric's Fast Stepwise-learning AI Shortens Motion Learning
Ideal for efficient startup of production equipment

The company announced today that it has developed an artificial intelligence (AI) technology capable of fast stepwise learning using a simulator to efficiently complete motion learning in a relatively short time using the company's Maisart AI technology.

Full release text: http://www.MitsubishiElectric.com/news/2019/0213-b.html

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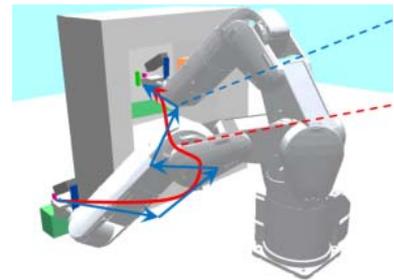
No. 3255

Behavioral-analysis AI Detects Slight Differences in Human Movements
Achieves fast analysis without prior machine learning

The company announced today that it has developed a unique behavioral-analysis artificial intelligence (AI) using the company's Maisart AI technology.

Full release text: http://www.MitsubishiElectric.com/news/2019/0213-c.html

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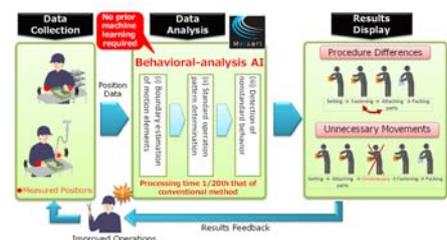
No. 3256

**Mitsubishi Electric Develops Super Compact Power Unit
and High Power Density Electric Machine for Hybrid Electric Vehicle**

Will expand vehicle cabin space while improving fuel efficiency for hybrid electric vehicles

The company announced today that it has developed what is believed to be the world's smallest power unit for a two-motor hybrid electric vehicle (two inverters and one converter), measuring just 2.7 liters in volume, offering a world-leading 150 kVA/L power density.

Full release text: http://www.MitsubishiElectric.com/news/2019/0213-d.html

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No. 3257

Mitsubishi Electric Develops Robust Sensing for Autonomous Driving

Enables autonomous-driving and driving-assistant systems to work even in dense fog or heavy rain

The company announced today that it has developed sensing technology for highly accurate detection of vehicle perimeters even in dense fog or heavy rain.

Full release text: http://www.MitsubishiElectric.com/news/2019/0213-e.html

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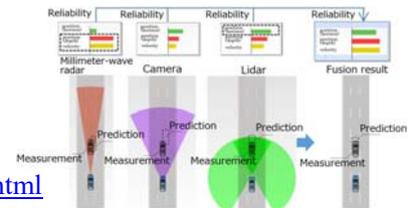
No. 3258

Mitsubishi Electric Develops Simulation Technology for ZEB Operation

Helps to determine ideal settings for energy savings and comfort levels in net zero energy buildings

The company announced today that it has developed a simulation technology for predicting energy consumption and comfort levels to operate net zero energy buildings (ZEBs).

Full release text: http://www.MitsubishiElectric.com/news/2019/0213-f.html

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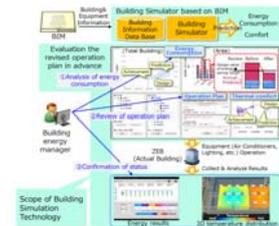
No. 3259

Mitsubishi Electric Develops Multilingual Speech Recognition Technology that Automatically Identifies which Language is Spoken

Will help realize speech interfaces that are highly suited to a wide variety of situations by applying the company's Maisart compact AI to simultaneously identify and understand spoken languages, even when multiple people are speaking

The company announced today that it has developed what the company believes to be the world's first technology capable of highly accurate multilingual speech recognition without being informed which language is being spoken.

Full release text: http://www.MitsubishiElectric.com/news/2019/0213-g.html

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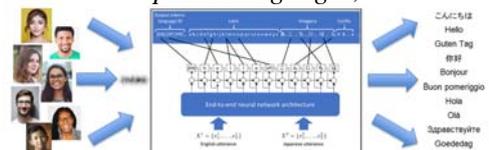
About Maisart

Maisart encompasses Mitsubishi Electric's proprietary artificial intelligence (AI) technology, including its compact AI, automated design deep-learning algorithm and extra-efficient smart-learning AI. Maisart is an abbreviation for "Mitsubishi Electric's AI creates the State-of-the-ART in technology." Under the corporate axiom "Original AI technology makes everything smart," the company is leveraging original AI technology and edge computing to make devices smarter and life more secure, intuitive and convenient.

Maisart is a registered trademark of Mitsubishi Electric Corporation.

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About Mitsubishi Electric Corporation

With nearly 100 years of experience in providing reliable, high-quality products, Mitsubishi Electric Corporation (TOKYO: 6503) is a recognized world leader in the manufacture, marketing and sales of electrical and electronic equipment used in information processing and communications, space development and satellite communications, consumer electronics, industrial technology, energy, 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 4,444.4 billion yen (in accordance with IFRS; US$ 41.9 billion*) in the fiscal year ended March 31, 2018. For more information visit:
www.MitsubishiElectric.com
*At an exchange rate of 106 yen to the US dollar, the rate given by the Tokyo Foreign Exchange Market on March 31, 2018