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**FOR IMMEDIATE RELEASE**

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

**TOKYO, February 13, 2019** - [Mitsubishi Electric Corporation](http://www.MitsubishiElectric.com) (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**

**No. 3253**

### Mitsubishi Electric R&D Strategy



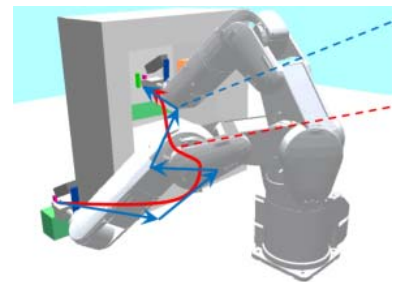
Full release text: <http://www.MitsubishiElectric.com/news/2019/0213-a.pdf>

**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.



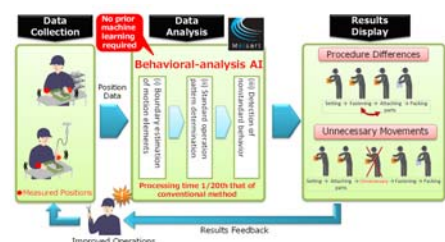
Full release text: <http://www.MitsubishiElectric.com/news/2019/0213-b.html>

**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>

**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.



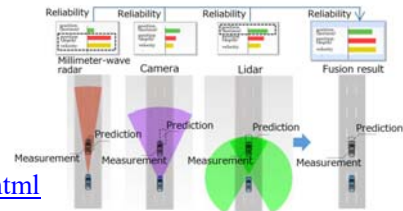
Full release text: <http://www.MitsubishiElectric.com/news/2019/0213-d.html>

**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.



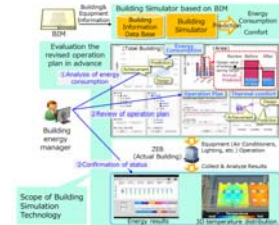
Full release text: <http://www.MitsubishiElectric.com/news/2019/0213-e.html>

**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).



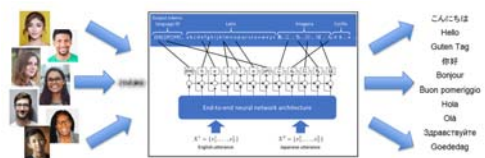
Full release text: <http://www.MitsubishiElectric.com/news/2019/0213-f.html>

**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>

### **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](http://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