

**Media Relations:**

Mitsubishi Electric Turkey PR Agency  
Inomist Communication Consultancy  
Sibel Selvi Arslantürk [sibel@inomist.com](mailto:sibel@inomist.com)  
0216 639 60 16 / 0533 441 80 33

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2 December 2020

**Attending the Robot Olympiads of Istanbul Technical University, Mitsubishi Electric shed light on the latest developments in Artificial Intelligence and Robot Technologies**

## **The Future Will Be Shaped With Artificial Intelligence and Robot Technologies**

***An ambitious player in the factory automation and advanced robot technologies in Turkey, Mitsubishi Electric has gathered with university students, the decision-makers of the future, at ITURO LITE "Robot Olympiads" organized online by the Control and Automation Club of Istanbul Technical University. As a keynote speaker, Tolga Bizel, Manager of Product Management and Marketing Department of Mitsubishi Electric Factory Automation Systems introduced the brand's next generation products and solutions boasting cutting-edge technology during his presentation "Age of Digital Factories and Robots". Elaborating on Artificial Intelligence, Internet of Things (IoT) and future of robot technologies, Mr. Bizel underlined that human will always be needed for a successful rollout of the digital transformation.***



Organized by Control and Automation Club of Istanbul Technical University under the name of ITURO LITE and gathered students, academicians and industry representatives working in the field of robotics, "Robot Olympiads" held online on November 28 to 29, 2020. Meeting with the students with his presentation "Age of Digital Factories and Robots" as part of the event, **Tolga Bizel, Manager of Product Management and Marketing Department of Mitsubishi Electric Factory Automation Systems** shed light on the IoT (Internet of Things), AI (Artificial Intelligence), and the future of the robot technologies, advising the engineers of the future for their preparedness to the new industry phase.

### **One-step-ahead production thanks to artificial intelligence**

Pointing out that digital transformation entered a new phase, robots have becoming rapidly widespread, and things in factories being done increasingly different than past, Tolga Bizel explained "Future will be shaped by Artificial Intelligence technologies. Because Artificial

Intelligence has been playing an increasingly larger role in our daily lives. The most popular applications of Artificial Intelligence, we are encountering in our daily lives, are Internet searches, PID loops, automatic pilot and vision recognition. Involved with the production, as well, Artificial Intelligence has a myriad of skills such as parameter settings, troubleshooting, assisted maintenance, as well as voice and face recognition. If we want to have a production process that is one step ahead of our time, we have to apply Artificial Intelligence technologies to robots, too. Driven by the future vision that robots will rapidly start playing bigger role in production, we, as Mitsubishi Electric, are developing next generation products and solutions in advanced robot technologies. Thanks to the next generation collaborative robots enhanced with Artificial Intelligence, we are enabling companies to set up their robotic systems faster, intuitively, cost effectively, responding resiliently to rapidly changing business settings and social needs. Therefore, it becomes possible to prevent unforeseen malfunctions and alert users in advance about the components potential source of failures. With power sensors, our robots do not paralyze the system and works faster compared to the conventional system; it outperforms itself as it continues learning. ”

#### **Increased productivity in factories thanks to MAISART technology**

Giving the insight that digital twin simulation not only enabled significantly shorter design process of a factory but also improved the precision of simulation, Mr. Bizel noted that companies are using the Mitsubishi Electric's proprietary AI trademark "MAISART" technology to derive maximum benefit from Artificial Intelligence, explaining "Being an abbreviation of Mitsubishi Electric's AI creates the **State-of-the-ART** in technology, MAISART significantly lowers the downtime in Artificial Intelligence-based factories and plants while boosting the productivity."

#### **"Human is our priority in digital transformation"**

Defending that digitalization will not cause people unemployed instead people will be driven towards more intellectual works rather than labor-intensive works, Mr. Bizel concludes "Setting up perfectly running systems in production processes, smooth operations and when necessary revisions will always require human. The most important matter at this point is the creation of trained-qualified human resources and being prepared for the digitalization process. As a brand giving significant weight to the education of future generations, we are launching the educational support project for which we have long been contributing to establishment of robot education centers at engineering faculties of universities. As Mitsubishi Electric, we are foreseeing the requirements of next age, accordingly developing new technologies to meet the needs of future, and, at the same time, continuing to invest in human."

#### **About Mitsubishi Electric Corporation**

*With nearly 100 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 communications, space development and satellite communications, consumer electronics, industrial technology, energy, transportation and building equipment. Mitsubishi Electric enriches society with technology in the spirit of its "Changes for the Better," and environmental statement, "Eco Changes."*

*The company recorded a revenue of 4,462.5 billion yen (U.S.\$ 40.9 billion\*) in the fiscal year ended March 31, 2020. For more information, please visit [www.MitsubishiElectric.com](http://www.MitsubishiElectric.com)*

*\*U.S. dollar amounts are translated from yen at the rate of ¥109=U.S.\$1, the approximate rate on the Tokyo Foreign Exchange Market on March 31, 2020*

### **About Mitsubishi Electric's Activities in Turkey**

Main fields of activity of Mitsubishi Electric that stand out with its advanced technology solutions in various areas ranging from “Home to Space” in Turkey are; air conditioning systems, industrial automation systems, advanced robot technologies, CNC mechatronics systems, elevator and escalator system. Designating Turkey whose power and potential it believes in as a major production headquarter, Mitsubishi Electric produces energy efficient and environment-friendly air conditioners for Europe and Turkey in its digital factory in Manisa which is the brand's first room air conditioner factory in Europe. Working to integrate factories of Turkish industry into digital transformation period, Mitsubishi Electric also draws attention with its automation technologies in the world's deepest sunken tube tunnel, the Marmaray project. Operating in several fields in Turkey such as automotive components, semi-conductor devices, transportation and energy systems, Mitsubishi Electric applies its radar technology which is developed for airports to increase safety for airplanes and flights within its operations in public systems in Antalya Airport. One of the leading developers in space research and development systems, Mitsubishi Electric is also the manufacturer of Turksat 4A and 4B satellites which contributes to Turkey's and neighbouring countries' communication and broadcasting infrastructure. For detailed information; [tr.mitsubishielectric.com](http://tr.mitsubishielectric.com)

### **About Mitsubishi Electric Turkey Factory Automation Systems**

Mitsubishi Electric Turkey Factory Automation Systems; provide added value in terms of rapid integration, productivity, flexibility and productivity to the leading industrial companies in Turkey in various fields such as automotive, food, packaging, metal and PVC processing machines. The new industry, also called "Industry 4.0", responds with e-F@ctory, i.e. the digital factory concept. For more information; [tr3a.mitsubishielectric.com](http://tr3a.mitsubishielectric.com)

### **Mitsubishi Electric Turkey Social Media Accounts**

**Facebook** <https://www.facebook.com/MitsubishiElectricTurkeyA.S/>

**LinkedIn** <https://www.linkedin.com/company/mitsubishi-electric-turkey/>

**Instagram** <https://www.instagram.com/mitsubishielectricturkey/>

**Twitter** [https://twitter.com/MitsubishiE\\_TR](https://twitter.com/MitsubishiE_TR)

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