

# Toyota's humanoid duplicates movements in robotic mobility

December 19 2019, by Yuri Kageyama

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In this Dec. 18, 2019, photo, Toyota Motor Corp.'s human-shaped T-HR3 robot, right, is remotely controlled by its staff member, left, during a demonstration in Tokyo. Toyota's upgraded version of the human-shaped T-HR3 now has faster and smoother finger movements because the wearable remote-control device has become lighter and easier to use. The person wearing a headset and wiring made the robot move in exactly the same way he was moving, waving or making dance-like movements, as sensors sent computerized signals to the robot of what they detected as human movements. (AP Photo/Yuri Kageyama)

Toyota Motor Corp.'s upgraded version of the human-shaped robot T-HR3 now has faster and smoother finger movements because the wearable remote-control device has become lighter and easier to use.

In a recent demonstration in Tokyo, a person wearing a headset and wiring made the [robot](#) move in exactly the same way he was moving, waving or making dance-like movements, as sensors sent computerized signals to the robot of what they detected as human movements.

Smaller robots that look like the mascots for the 2020 Tokyo Olympics and Paralympics were controlled in the same way. Japanese automaker Toyota is an Olympic sponsor.

Toyota engineer Tomohisa Moridaira said human-shaped robots can be controlled intuitively because all one has to do is move naturally.

Toyota believes the technology is a kind of mobility, the automaker's longtime mission, and mobility includes moving people emotionally, Moridaira said.

Developing a robot that mirrors [human movements](#) may, in the future, mean it would be able to perform surgery in a distant place where a doctor might not be able to travel.

The robot may also allow people to take part in events vicariously, according to Toyota.

The challenge still lies in securing reliable and speedy telecommunications connections so that signals are accurately relayed, said Moridaira.



In this Dec. 18, 2019, photo, Toyota Motor Corp. engineer Tomohisa Moridaira, shows a upgraded version of the human-shaped T-HR3, which now has enhanced finger movements that can be remotely controlled during a demonstration in Tokyo. In the demonstration, a person wearing a headset and wiring made the robot move in exactly the same way he was moving, waving or making dance-like movements, as sensors sent computerized signals to the robot of what they detected as human movements. (AP Photo/Yuri Kageyama)



In this Dec. 18, 2019, photo, a staff member arranges Toyota Motor Corp.'s robot developed for the 2020 Tokyo Paralympics, in Tokyo. Toyota upgraded version of the human-shaped T-HR3 now has faster and smoother finger movements because the wearable remote-control device has become lighter and easier to use. Smaller robots that look like the mascots for the 2020 Tokyo Olympics and Paralympics were controlled in the same way. Japanese automaker Toyota is an Olympic sponsor. (AP Photo/Yuri Kageyama)

The robots were connected by local networks in the demonstrations.

"The robot now has enhanced finger movements," Moridaira said. "By offering better mobility, we hope to make for a better world."

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