



News Release

July 9, 2018

PLEN Robotics Inc.

**PLEN Robotics Inc. develops real-time face tracking algorithm
by applying the deep learning, computer vision technology from SenseTime Japan Ltd.**

PLEN Robotics Inc. (located in Osaka, Japan lead by CEO Natsuo Akazawa) has begun to implement SenseTime Japan Ltd.'s face recognition software library, FaceSDK, a deep learning computer vision technology, in their personal assistant robot, the PLEN Cube. By this real-time face tracking algorithm, the processing time from the camera input to the actuator output will be virtually instantaneous.

PLEN Cube

The PLEN Cube is a personal assistant robot that fits in the palm of your hand. It connects and integrates your web services and uses voice-controlled commands to perform tasks from house appliance control to social media services. Developed by PLEN Robotics Inc., the PLEN Cube will respond to your commands not only with its voice but with various unique motions, giving it a loveable, character-like quality.





Real-Time face tracking technology

1) A compact algorithm

Unique individual recognition from captured images will be processed within the PLEN Cube terminal. With this automated authentication process called “face pass” the processing does not have to pass through the cloud.

2) High speed data analysis

The amount of movement of the tracked subject is converted to a command and sent to an actuator (ie: motor) and is adjusted in real time. This enables automatic tracking face tracking at approximately walking speed in front of the camera

Efficiency in Operations

In industry, there are indications that growth of robot technology in the service industry is slow while it is progressing very steadily in the manufacturing field with factory automation. Using this real-time tracking technology, we aim to recognize visitors’ faces to be linked to the authentication system, and provide unique service offers based on each individual’ s interaction. These personalized interactions combined with pauses and motion are designed to be as if you are having a natural interaction with a “person”.

By facilitating simple and routine tasks such as reception, check-in, entry/exit management, and monitoring, this will contribute to the overall improvement of the efficiency in the service industry.

About PLEN Robotics Inc.

PLEN Robotics Inc. founded in July 2017 is Japanese hardware startup. We aim to create robotics technology for all people, regardless of age, gender, nationality, or region, to readily enjoy and enrich their lives. To this end, we are open-minded, devoted, and focused on finding the most effective means for the support and propagation of new technologies and values, regardless of beliefs, culture, title, or organization. For more information, please contact us at info@plenrobotics.com

Web site : <http://www.plenrobotics.com/en/>



Facebook: <https://www.facebook.com/plenrobotics/>

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Instagram: <https://www.instagram.com/plenrobotics/>

About FaceSDK

For more information, please contact at contact@sensetime.jp

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