

Socionext Achieves Significant Milestone from Collaboration on Artificial Intelligence

Yokohama, April 18, 2017 --- Socionext Inc. and SOINN Inc. today announced initial results of collaboration started in 2016, in which Socionext extracts and delivers biometrics data to the "Artificial Brain SOINN". The companies achieved initial results in reading ultrasound images from Socionext's viewphii™ mobile ultrasound solution by Artificial Brain SOINN. The results will be introduced at Medtec Japan, held in Tokyo Big Sight, April 19-21, at booths 4505 & 4507.

In this initial trial, SOINN learned to read subcutaneous fat thickness from abdominal ultrasound images. The estimations by SOINN were then compared with the reading results by ultrasound technicians. Machine deep learning, which is attracting more and more attentions recently, is thought to require hundreds of thousands of images in order to learn from reading the images. In contrast, SOINN needed only about 700 images, revealing the unique approach by SOINN Inc. to obtain learning result using very small data samples. SOINN can accurately read fat tissue thickness from 80 percent of the data within 5 percent margin of error. There were noticeable differences between the readings by human and by SOINN for some of the images. After reviewing these data, it was confirmed that human error, including numerical input, was a common occurrence from data reading by human. Based on the findings, the companies believe that AI has the potential to be used for assisting technicians in reading images and detecting human errors in medical image handling.

Socionext will build on the knowledge gained by the current trials and continue to develop technology and business promotion on the use of AI, not only in the medical field but for various IoT applications. Socionext has its core strength in extracting value-added information from sensor data, as well as the ability to develop edge computing solutions built on the experience of developing high-performance, multi-functional processors. The company will leverage such expertise and apply innovative methods of transferring sensor data to the cloud, to make full use of such data in various applications. By achieving this goal, it aims to become an industry leader in the use of AI for IoT.

About viewphii: <http://www.socionext.com/en/products/assp/viewphii/>

About Medtec Japan <http://www.medtecjapan.com/en>

About Socionext Inc.

Socionext is a new, innovative enterprise that designs, develops and delivers System-on-Chip products to customers worldwide. The company is focused on imaging, networking, computing and other dynamic technologies that drive today's leading-edge applications. Socionext combines world-class expertise, experience, and an extensive IP portfolio to provide exceptional solutions and ensure a better quality of experience for customers. Founded in 2015, Socionext Inc. is headquartered in Yokohama, and has offices in Japan, Asia, United States and Europe to lead its product development and sales activities. For more information, visit socionext.com.

About SOINN Inc.

SOINN Inc. is a unique startup found by Associate Professor of Tokyo Institute of Technology which is one of top computer science university in Japan. We drive safe and efficient world with our innovative Machine Learning technologies. Our patent based, Artificial Brain "SOINN", enables machines to be autonomous and smart. Our cutting edge knowledge and skills get over many kinds of tasks like Deep Learning cannot achieve. Feature of SOINN, small CPU power/less training time/small training data sets, achieves smart IoT world.

SOINN=Self-Organizing Incremental Neural Network

Website: <http://soinn.com/>

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