

March 24, 2020

Press Release

Japan Electronics and Information Technology Industries

Eight Winners of the Fifth JEITA Venture Awards Selected

— *Promoting Co-creation and Partnership with Startup Firms Aiming for the Realization of Society 5.0* —

Japan Electronics and Information Technology Industries Association (JEITA; Nobuhiro Endo, Chairman) is proud to announce that the eight winners of the JEITA Venture Awards have been selected today. JEITA Venture Awards are given to startups that are expected to contribute not only to the advancement of the IT and electronics industry, but also to overall economic growth. In the past, a total of 24 firms have been awarded, including up-and-coming startups such as Preferred Networks, MUJIN, and ABEJA to name a few. This year, for the fifth time, the JEITA Venture Awards panel of judges have screened and selected winners based on the perspectives of growth potential (ability to lead), ripple effect (ability to make an impact), and social capability (ability to adapt into society). As a result, the following eight startups were awarded the Fifth JEITA Venture Awards: Araya, AI Medical Service, CyKinso, Dynamic Map Platform, Novel Crystal Technology, PicoCELA, BOSCO Technologies, and Remohab.

Currently, JEITA is involved in a wide variety of operations aiming to create new businesses through social implementation of CPS/IoT as a part of business guidelines in realizing Society 5.0. JEITA Venture Awards is a part of these measures, aiming to support venture companies that lead to the development of IT and electronics industries as well as to build co-creation, partnerships and ecosystems between JEITA members and startups (blue-chip startups). If one of the award recipients is interested in becoming a member of JEITA, the firm can make use of the special exemption program for startups which makes award recipient startups eligible to save on membership fees for the first two years if the firm becomes an official member of JEITA.

The eight award recipient startups will be granted a number of privileges starting with participation in JEITA activities in the future, to exhibit at CEATEC—a CPS/IoT exhibition aiming for the realization of Society 5.0, to take the rostrum at symposiums and seminars hosted by JEITA, and to interact with JEITA official member companies.

Promoting co-creation and partnership with startup firms and further implementing the social application of Society 5.0 and CPS/IoT, JEITA will focus on solving social issues and creating new businesses. JEITA will continue to announce future initiatives as they arise.

[Press Contacts]

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5th JEITA Venture Awards



Araya Inc.

<https://www.araya.org/en/>



Date of foundation : December 9, 2013

Location : ARK Mori Building 24F, 1-12-32 Akasaka,
Minato-ku, Tokyo

Representative : Ryota Kanai (CEO)

Number of employees : 49

Industry sector : AI and information

BUSINESS CONTENT

Araya Inc. develops AI algorithm products under the following three businesses.

1. Deep learning

The company possesses higher-grade image recognition technology, and expertise in the development of autonomous driving at manufacturing facilities and in automobiles, as well as digitalization in agriculture, forestry and fisheries.

2. Edge AI

The company possesses a unique patented technology that compresses an original AI model to up to 1/30 of its original size and helps to reduce the amount of calculation required. This Edge AI technology enables the user to implement AI on edge devices such as automobiles, smartphones and drones. What's more, the software product "Pressai" that automates diverse processing such as compression, implementation on CPU and FPGAs, is planned for release in March 2020.

3. Autonomous AI

The company is utilizing Reinforcement Learning to promote the development of technologies and products that allow robots and drones, as well as construction machinery and HVAC systems, to judge the situation on their own and perform given tasks (moving autonomously) without human intervention.

EVALUATION

Araya Inc. has operational presence in manufacturing, communications, and agriculture, forestry and fisheries, through the development of deep learning technology that possesses higher-grade image technology. The company also established original compression technology that is capable of compressing AI models up to 1/30 of the original size and reduce the amount of calculation with comparable accuracy to enable development of technologies and products that can be moved autonomously and judge the situation on their own. In the future, implementation to 5G edge devices is anticipated including automobiles, smartphones, drones, FA robots, and cameras. For this reason, the company was chosen to receive the JEITA Venture Award.

5th JEITA Venture Awards



AI Medical Service Inc.

<https://www.ai-ms.com/>



Date of foundation : September 1, 2017

Location : Arai Building 2F, 1-10-13 Minami Ikebukuro, Toshima-ku, Tokyo

Representative : Tomohiro Tada (CEO)

Number of employees : 37

Industry sector : Medical and healthcare

BUSINESS CONTENT

Development of an AI that supports image diagnosis for endoscopy

Specializing in endoscopic AI, the AI Medical Service focuses on implementing a system that supports the detection and diagnosis of lesions by endoscopic diagnosis for digestive organs including the esophagus, stomach and intestines.

We are dedicated to saving patients around the globe by employing products that can be used in medical care, where responsibility is of prime importance.

EVALUATION

AI Medical Service has developed a cloud-based endoscopic AI diagnostic support system for gastric cancer screening to cope with the increased number of images examined, stemming from the revision of public policy guidelines by the Ministry of Health, Labor and Welfare (Japan). Through this development, the company is advancing a secondary image reading support service that automatically detects potential cancers and other cautionary notes with accuracy comparable to those of skilled specialists.

A detection rate of 99% was achieved by the development of AI technology based on teacher data of the world's top-class physicians. Due to the company's efforts to promote the technology both domestically and globally, further marketability and social contribution are expected. For this reason, AI Medical Service was chosen to receive the JEITA Venture Award.

5th JEITA Venture Awards



Cykinso, Inc.

<https://cykinso.co.jp/>



Date of foundation : November 19, 2014

Location : Odaka Building 2F, 1-36-1 Yoyogi, Shibuya-ku, Tokyo

Representative : Yu Sawai (President and CEO)

Number of employees : 15

Industry sector : Medical and healthcare

BUSINESS CONTENT

Cykinso is a healthcare startup company that develops and provides the DNA inspection and AI analysis service of human intestinal flora called MyKinso. As a result of joint research with Osaka University Research Institute for Microbial Diseases, the company has implemented a process of intestinal flora inspection and analysis technology that is low-cost, speedy and accurate. The company possesses 15,000 sample data, one of the largest number of data domestically (as of December 2019). In the future, the company aims to contribute to the extension of healthy life expectancy through the use of collected big data for the detection of pre-symptomatic disease by promoting the prevention of pre-symptomatic disease.

EVALUATION

CyKinso is commercializing a service that identifies the human intestinal flora through DNA testing, and offers advice using AI analysis on the potential for various diseases and prevention/life modification at pre-symptomatic stages. To develop and establish a highly accurate health management platform, and improve the cost and speed of information technology in the medical and health fields, such as next-generation sequencers and AIs, for biological-data that vary among individuals and are highly diverse, it is expected that health management will be increasingly reliable at the pre-symptomatic stage as the proportion of older adults among the general population increases. Therefore, CyKinso was judged to be a worthy recipient of the JEITA Venture Award.

5th JEITA Venture Awards



Dynamic Map Platform Co., Ltd.

<https://www.dynamic-maps.co.jp/en/index.html>



Date of foundation : June 13, 2016

Location : Kinsan Building 6th floor, 4-1-21 Nihonbashi Muromachi,
Chuo-ku, Tokyo

Representative : Hiroyuki Inahata (President)

Number of employees : 49

Industry sector : Mobility

BUSINESS CONTENT

- Generation, maintenance and provision of dynamic map cooperation areas and highly precise three-dimensional map data pertaining to national motorways and expressways
- Multipurpose (e.g. infrastructure management, natural disaster prevention and mitigation) business deployment using high-precision three-dimensional map data
- Overseas business development
- Business development for projects related to ordinary roads

EVALUATION

Dynamic Map Platform has developed technology for generating and integrating high-precision three-dimensional map data that realizes centimeter-level accuracy by using advanced positioning technology, and has promoted business deployment of maps for automatic running of national expressways and dedicated motorways. In addition, the company has contributed to global standardization in this field with an eye to future developments in Europe, as well as advancing the development of overseas business in North America and other regions. The three-dimensional map data developed by the company will be applied to the field of demonstration experiments by mounting on self-driving vehicles in the future. Its use is expected to be expanded into the fields of snow removal and infrastructure. Therefore, Dynamic Map Platform was judged to be a worthy recipient of the JEITA Venture Award.

5th JEITA Venture Awards



Novel Crystal Technology, Inc.

<https://www.novelcrystal.co.jp/eng/>



Novel Crystal Technology, Inc.

Date of foundation : June 30, 2015

Location : 2-3-1 Hirosedai, Sayama-shi, Saitama

Representative : Akito Kuramata (President and CEO)

Number of employees : 38

Industry sector : Manufacturing

BUSINESS CONTENT

- Development, manufacturing and sales of gallium oxide (β -Ga₂O₃) monocrystalline substrates and epitaxial wafers
- Development and sales of power devices using the aforementioned materials

EVALUATION

Novel Crystal Technology is expanding into the device business by establishing large diameter gallium oxide (β -Ga₂O₃) monocrystalline substrate manufacturing technology anticipated for next-generation power devices and homoepitaxial growth technology on substrates. Gallium oxide has high potential to simultaneously realize technical advantages such as high-voltage resistance, low loss, high frequency drive, high temperature operation and low cost of power devices. In addition, new applications such as devices to withstand harsh environments, high-sensitivity image sensors, and scintillators can be expected. Therefore, Novel Crystal Technology was judged to be a worthy recipient of the JEITA Venture Award.

5th JEITA Venture Awards



PicoCELA Inc.

<https://www.picocele.com/en/>



Date of foundation : August 8, 2008

Location : SANOS Nihonbashi 4F, 2-34-5 Nihonbashi
Ningyo-cho, Chuo-ku, Tokyo

Representative : Hiroshi Furukawa (Director and CEO)

Number of employees : 21

Industry sector : AI and information

BUSINESS CONTENT

PicoCELA possesses a wireless multi-hop technology (PicoCELA wireless backhaul) that relays cellular base stations such as 5G mobile communications and wireless LAN access points. Depending on the highly stable PicoCELA wireless backhaul, the use of LAN cables required for wiring base stations has been reduced by more than 90%. The basis of their technology is a result of research and development under an industry-academia-government collaboration project and is supported by more than thirty inventions. The company has sold more than 4,000 products and possesses more than 200 sites that implement PicoCELA products and technologies.

EVALUATION

PicoCELA has developed a technology to multi-hop relay with wireless mesh between communications access points, to provide a wireless communications environment inside factories, construction sites, commercial establishments, and event venues. This technology features easy and quick setup of a wireless environment without the need for cabling. Currently the company is focusing on developing its expertise mainly on Wi-Fi, however, the company's technology is anticipated to be an important fundamental technology for B2B service specializing in a specific region or facility (i.e. local 5G) among the next-gen 5G communications technologies. Adoption results are expected to expand with the diffusion of 5G technology. Therefore, PicoCELA was judged to be a worthy recipient of the JEITA Venture Award.

5th JEITA Venture Awards



BOSCO Technologies Inc.

<http://www.bosco-tech.com/>



Date of foundation : February 29, 2012

Location : Toranomom-Yoshiara Building 4F, 6-13, Nishi-shimbashi
1-chome, Minato-ku, Tokyo

Representative : Tsunemasa Hayashi (President and CEO)

Number of employees : 25

Industry sector : Cyber security, AI and information technology, Other

BUSINESS CONTENT

IT system consulting, technology marketing, system development, research & development, product development and sales

EVALUATION

BOSCO Technologies develops Smart Gateway, that functions as a proxy gateway. Smart Gateway not only acquires a detailed log of user operation but also enables integration management for controlling various equipment such as for access restriction. The company's products are implemented in diverse key industries including two megabanks, local governments and civil services as well as for a major telecom company that has fully adopted the company's product to manage 100,000 pieces of equipment. BOSCO is expected to contribute to solving a wide variety of issues through reduction of cost and labor involved in adopting products and running them. Therefore, BOSCO Technologies was judged to be a worthy recipient of the JEITA Venture Award.

5th JEITA Venture Awards



Remohab Inc.

<https://www.remohab.com/>



Date of foundation : March 10, 2017

Location : 1-23-19, Esaka-cho, Suita-shi, Osaka

Representative : Tatsunori Taniguchi (CEO)

Number of employees : 14

Industry sector : Medical and healthcare

BUSINESS CONTENT

Remohab is a startup company originating from Osaka University that deals with the development of the Remohab System, a remote medical care system that enables optimum rehabilitation from home utilizing IoT technology. This system consists of an app that monitors the patient's cardiac stress load, a "wearable ECG" that obtains the patient's ECG waveform, and a "smart ergometer" that has been turned into an IoT device. The system creates an environment where a medical professional provides cardiac rehabilitation equivalent to that normally provided at hospitals by monitoring patients remotely as they use the system at home. Patients send biometric data to medical institutions via the cloud, and medical institutions can guide and manage patients using the data received from the client.

EVALUATION

Remohab is running a business that provides a remote medical care system, enabling proper rehabilitation at home using IoT technology. Patients suffering from heart failure, as common among the elderly, have difficulties making hospital visits. However through the use of Remohab, continuous rehabilitation will be enabled with proper guidance management, to have patients who are rehabilitating at home send biometric data such as cardiac stress load and ECG waveform to the medical institution. This will lead to improving the patient's quality of life and can expect a positive contribution to the aging society. Therefore, Remohab was judged to be a worthy recipient of the JEITA Venture Award.