Tencent launches AI-powered medical imaging and data management devices

21 October 2020 | News

Tencent announces 'AIMIS Medical Image Cloud' and 'AIMIS Open Lab' help medical data management and accelerates incubation of medical AI application

Tencent announced at the 83rd China International Medical Device Expo (CMEF) two new products that will enable consumers and medical professionals to safely and securely share medical data more easily, and equip medical professionals new tools to diagnose patients and achieve better patient outcomes.

The Tencent AIMIS Medical Image Cloud, where patients can manage their images generated by X-rays, CT, and MRIs to allow for safe and secure sharing of patient medical data. The second product, The Tencent AIMIS Open Lab will share Tencent's medical AI capabilities with third parties, including scientific research institutions, universities, and scientific and technological innovation enterprises, to incubate medical AI applications.

New offerings will enhance medical imaging management by patients and sharing between healthcare professionals, driving the digital transformation of the world's medical and healthcare industries. In conjunction with this offering, Tencent created the AI Open lab as a one-stop intelligent service platform to provide clinicians and technology enterprises with the necessary tools to handle critical medical data and diagnose patients.

Tencent AIMIS Image Cloud supports complete images on the cloud to reduce repeated examination

It is often inconvenient and cumbersome for patients to manage their medical images and share them with medical professionals. Patients can now safely manage their images via Tencent AIMIS Image Cloud and can permission medical professionals' access to the original images and reports anytime, anywhere. Patients can carry out one-stop management of personal data and authorize the sharing and mutual recognition of image reports among hospitals, so that the complete medical image files can be checked to avoid unnecessary duplicate examinations and reduce the waste of medical resources.

In addition, the Tencent AIMIS Image Cloud also connects medical institutions at all levels in the Medical Treatment

Combination through Picture Archiving and Communication Systems (PACS) on the cloud, so patients can take examinations in primary medical institutions and obtain expert diagnosis remotely. Doctors can conduct online consultations through Tencent real-time audio and video facilities when they encounter difficult cases and they can conduct synchronous collaborative operations on images to communicate efficiently.

Tencent AIMIS Open Lab accelerates Incubation of medical AI application

The medical and healthcare sector often face challenges regarding lack of data sources, time-consuming labeling, a lack of applicable algorithms, and difficulties meeting the required computing power. Tencent AIMIS Open Lab is a one-stop intelligent service platform grounded in secure storage and the compelling computing power of the Tencent cloud. Tencent AIMIS Open Lab provides clinicians and technology enterprises with whole-process services such as data desensitization, access, annotation, the ability to model training, testing and applying, they can develop medical AI applications more efficiently, so as to promote the industry and its ecosystem.

Tencent also announced an AI innovation competition aimed at medical institutions, universities, and technology startups. The competition invites clinicians to ask questions based on actual clinical application needs, and then invites teams to use digital technologies such as AI, big data, and cloud computing to solve these clinical medical problems.

Wang Shaojun, vice president of Tencent Healthcare says, "We are building comprehensive medical AI portfolio, including Tencent AIMIS, the Guide and Assistant Diagnosis System, and the Tumor Assistant Diagnosis System, which have been proved the feasibility of combining AI with medical treatment. We will deepen the open cooperation with industry partners to better address medical AI's application problems, and develop solutions covering the entire healthcare process."

As of now, Tencent has 23 products on its cloud platform that have been adapted through the comprehensive technical architecture of the China National Healthcare Security Administration, aiding in the development of China's medical insurance informatization. Simultaneously, Tencent is opening its technical capabilities to international medical professionals, to jointly develop the digital transformation of the world's medical and health industries.