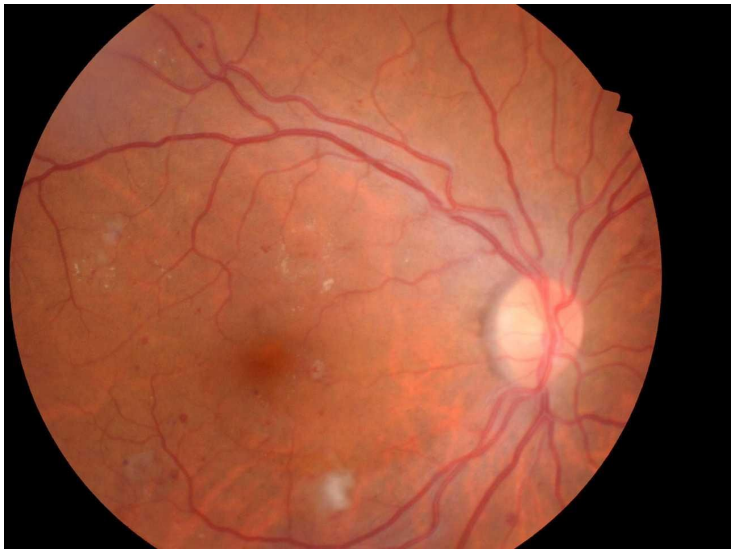
BioSpect
the business of Bi
24 years of leveraging the business of Bio
www.biospectrumindia.co

Ping An Technology wins recognition yet again

23 March 2018 | News

PAMIA ranks first worldwide when it comes to EX, the most difficult yet most important lesions segmentation challenge, while ranking among the top three globally for the segmentation of other lesions



The results of the Indian Diabetic Retinopathy Image Dataset (IDRiD) fundus analysis competition organized by the IEEE International Symposium on Biomedical Imaging (ISBI) were recently announced.

Ping An Technology's PAMIA (Ping An Medical Imaging Assistant) performed head and shoulders above its peers, including a world first in EX (hard exudates) image segmentation, world second in HE (bleeding) segmentation and world third in MA (microaneurysm) segmentation task.

This is the second time this year that Ping An Technology has garnered awards in a world-class competition in the medical imaging research sector, heralding another milestone for the company in artificial intelligence.

Earlier in the year, PAMIA had set a new record for nodule detection with an accuracy rate of 95.1 percent, and beat its own previous record for false positive reduction with an accuracy rate of 96.8 per cent in the international authoritative Lung Nodule Analysis (LUNA) rankings for medical imaging.

PAMIA ranks first worldwide when it comes to EX, the most difficult yet most important lesions segmentation challenge, while ranking among the top three globally for the segmentation of other lesions.

The fundus image is different from other image scenarios, as these lesions only occupy a few dozen pixels.

PAMIA, in order to ensure the detection sensitivity, combined its comprehensive advantages in the field of medical diagnosis and deep learning with its experience of setting new world records in the LUNA competition at the beginning of the year to design a new segmentation network that used deep and transfer learning theories to identify suspected lesions quickly and achieve boundary segmentation.

At present, the marking and segmentation of lesions can be completed in a few seconds, greatly improving the reading speed and accuracy rate.

Ping An Technology has achieved several milestones in the intelligent film reading field since 2016 when it entered the medical imaging sector.

These achievements reflect the company's leadership and dominant position in the technologies related to medical imaging.

With this award as a new milestone, PAMIA plans to devote itself to furthering its research on medical artificial intelligence, helping to achieve a strategic development goal for China's artificial intelligence sector.