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Chinese scientists unveil the world's first AI model for lunar exploration

GUIYANG — The world's first professional, multimodal large-language model for the field of lunar science has been released in China to significantly accelerate the processing speed of massive amounts of data from the moon.

The new tool, from the Chinese Academy of Sciences' Institute of Geochemistry and Alibaba Cloud Intelligence Group, made its debut at the China International Big Data Intelligence Expo in Guiyang, capital of Guizhou province.

The institute has built a comprehensive "digital moon" platform with the world's most complete databank related to lunar exploration.

The LLM has created a "smart brain" for the digital moon. Ku Wei, vice-president of Alibaba Cloud Intelligence Group, said that the LLM identifies lunar craters

and remembers them by size, depth and shape to provide scientists with an important basis for their study of the moon's geological evolution.

There are more than 1 million lunar craters with a diameter of over 1 kilometer, and countless smaller ones, according to Liu Jianzhong, a researcher at the Institute of Geochemistry. "Identifying all lunar craters would be impossible if we were to rely on human brainpower alone," Liu said.

Researchers now only need to input an image of a lunar crater, and the LLM will determine its shape, size and age.

"The accuracy rate is more than 80 percent, exceeding our expectations," Liu said.

Scientists say that the progress and development of planetary sci-

ence depends on two factors: the development of deep space exploration technology, and the levels of data processing and application.

Scientific research driven by big data is changing the human science and technology development process, and the intelligence of the digital moon will accelerate China's lunar and planetary scientific research and innovation, according to scientists.

"The LLM is like a child with a very high IQ," Liu said. "We train and teach the child professional things. I personally believe that this child's intelligence may have reached the university sophomore level. We will let it continue to grow and help us solve more scientific problems."

XINHUA