



## “AI” makes life more convenient!

“AI” stands for Artificial Intelligence whose research has been progressing world-wide since 1950s. Recently AI is experiencing a dramatic progress through learning method called deep learning using big data. Also, we are able to witness “AI” used in household items in line with development of “IoT”. It appears that our life will become more convenient by further utilization of “AI” going forward.

### Point 1

#### Usage of big data and progress by deep learning Even winning poker by enhancing intuitive capabilities

- In the past, we needed to set definitions, prepare data and input them in the computer for usage of “AI”. In recent days, “AI” has evolved significantly by using big data in the course of data processing and by self-study based on learning methodology called deep learning which imitates the learning mechanism of human nerve system.
- For example, there was a world-wide news last spring that “AI” defeated professional player of “Go” (an abstract strategy board game originally invented in ancient China) who can think of and make astronomical number of moves in the game. In addition, a few days ago there was a research result announced that “AI” won against professional player of poker under certain conditions, even though the game is difficult to predict future development since you cannot see hand of other players, as “AI” had developed and enhanced its intuitive capabilities.

### Point 2

#### Connecting more and more by “IoT” Development of “IoT” can be found in familiar home electric appliances

- Other than big data, “IoT (Internet of Things)” which connects everything through the internet, not limited to PCs and network servers, is known as a technology that dramatically evolved “AI”.
- For example, at one of the world's largest consumer electronics trade fair held in Las Vegas in January 2017, we could see lots of evolution of “IoT” used by familiar home electric appliances such as (i) large display with on-line shopping function using “IoT” and (ii) refrigerator which gather information responding to verbal requests.

### Future Outlook

#### Our lives will become more convenient by new technologies supported by “AI”

- Now that “AI” is equipped with self-thinking function, products which can verbally communicate with people have been produced. In addition, functions which will support comfortable life are being proposed, as reading of facial expression and health condition of human beings is made possible due to improvement of accurate image recognition. Also, it is expected that “AI” can (i) create novels, movies and music by learning taste of people and (ii) propose meal menu to keep health in good shape. “AI” is expected to be more active and will become familiar and visible to us going forward.



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