

Hoping for Better AI: Advice from the Brain

Friday, 8 November 2019 09:20 (20 minutes)

Artificial intelligence (AI), by definition, is an artificial version of natural intelligence (NI). Trying to understand how natural intelligence works, Alan Turing, Demis Hassabis and other AI experts have tried to understand how the human brain works. With the recent explosive advance in technology, modern neuroscience is now getting closer to unraveling the mysterious algorithms of the brain one by one. Some of the algorithmic principles as to how the brain processes information (e.g., reinforcement learning, deep neural networks with backpropagation, etc.) have been readily adopted by the AI research field and have revolutionized the field as evidenced by the famous 'AlphaGo' by the Google's DeepMind. However, the current version of AI is inferior to the brain in many aspects although neuroscience has a lot more to offer in pushing the envelope in AI technology to make AI virtually inseparable from NI in the future. In this short talk, I will introduce some of the key areas in which modern AI to improve to resemble the human brain.

Presenter: Prof. LEE, Inah (Seoul National University)

Session Classification: Invited talks - Biological sciences, Neurosciences