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EDUCATION IN THE AGE OF ARTIFICIAL INTELLIGENCE

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ABSTRACT

We experience AI technologies in everyday life. Examples include Google's self-driving car, IBM's Watson AI, Apple's Siri assistant, Amazon's Echo speaker, and SoftBank's Pepper robot. Artificial intelligence is not just changing our everyday life, but it is also transforming the whole industries. In manufacturing, deep learning AI technologies build a "digital twin" model of a factory to simulate and predict the plant by learning from real-time sensory data. Likewise, in education, the everyday behavior of students can be sensed by wearable and mobile devices to learn the interest of the student and make the most effective and fun study plan based on the sensory data. The power of self-learning AI was clearly demonstrated by the AlphaGo, Google's Go playing AI, that beat the human Go-champions. As smart sensors collect more data, the computing power grows faster, and machine-learning algorithms get smarter, the growth rate of machine intelligence can be increased, leading to "intelligence explosion". Some futurists predict that artificial intelligence will surpass human intelligence within 30 years. In this talk I will review the recent trends of artificial intelligence and discuss the ensuing impact on the 4th industrial revolution. I will then discuss the impact of AI on future education, both online and offline.

Keywords: Artificial Intelligence, Machine Learning, Digital Transformation, Impact of AI on Education.