**HKU President’s Forum – Science and Society**

**Professor John L Hennessy**

**Topic: The Deep Learning Revolution**

Abstract:

The invention of the microprocessor, the personal computer, the Internet, and the World Wide Web have changed our lives and society. Machine learning based on deep neural networks will be as important as any of these earlier innovations and may have deeper and more disruptive societal impacts than earlier innovations. What has enabled this revolution? How has the capability of systems using this technology changed? How will deep learning transform our society?

**香港大學校長論壇 – 科學與社會**

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**演題：深度學習革命**

微處理器、個人電腦、互聯網和全球資訊網絡（萬維網）的發明，改變了我們的生活和社會。基於深度神經網絡的機器學習的應用，將與上述的早期創新發明對人類生活有著同樣重要的影響，將有著同樣的重要性，甚至具有更深遠、更具顛覆性的社會影響。演題探討的議題，包括是甚麼促成這場革命？相關的應用技術系統性能的演變？深度學習將會如何改造我們的社會？