北京大学前沿计算研究中心
Center on Frontiers of Computing Studies, Peking University

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An Introduction to AI and Deep Learning

Prof. John Hopcroft

Cornell University/Peking University

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Abstract

A major advance in AI occurred in 2012 when AlexNet won the ImageNet competition with a deep network. The success was sufficiently better than previous years that deep networks were applied in many applications with great success. However, there is little understanding of why deep learning works. This talk will give an introduction to machine learning and then illustrate current research directions in deep learning at a level for a general scientific audience.

Biography

John E. Hopcroft is the IBM Professor of Engineering and Applied Mathematics in Computer Science at Cornell University, and the Director of Center on Frontiers of Computing Studies at Peking University. From January 1994 until June 2001, he was the Joseph Silbert Dean of Engineering. After receiving both his M.S. and Ph.D. in electrical engineering from Stanford University, he spent three years on the faculty of Princeton University. He joined the Cornell faculty in 1967, was named professor in 1972 and the Joseph C. Ford Professor of Computer Science in 1985. He served as chairman of the Department of Computer Science from 1987 to 1992 and was the associate dean for college affairs in 1993. An undergraduate alumnus of Seattle University, Hopcroft was honored with a Doctor of Humanities Degree, Honoris Causa, in 1990.

Hopcroft's research centers on theoretical aspects of computing, especially analysis of algorithms, automata theory, and graph algorithms. He has coauthored four books on formal languages and algorithms with Jeffrey D. Ullman and Alfred V. Aho. His most recent work is on the study of information capture and access.

He was honored with the A. M. Turing Award in 1986. He is a member of the National Academy of Sciences, the National Academy of Engineering, a foreign member of the Chinese Academy of Sciences, and a fellow of the American Academy of Arts and Sciences, the American Association for the Advancement of Science, the Institute of Electrical and Electronics Engineers (IEEE), and the Association of Computing Machinery (ACM).

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