

郭宗杰院士大師講座

Green Learning: Methodology, Examples and Outlook

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迅慧講堂



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Abstract

The rapid advances in artificial intelligence in the last decade are primarily attributed to the wide applications of deep learning (DL). Yet, the high carbon footprint yielded by larger DL networks is a concern to sustainability. Green learning (GL) has been proposed as an alternative to address this concern. GL is characterized by low carbon footprints, small model sizes, low computational complexity, and mathematical transparency. It offers energy-effective solutions in cloud centers as well as mobile/edge devices. It has three main modules: 1) unsupervised representation learning, 2) supervised feature learning, and 3) decision learning. GL has been successfully applied to a few applications. This talk provides an overview on the GL solution, its demonstrated examples, and technical outlook. The connection between GL and DL will also be discussed.

報名連結

<http://bit.ly/3iDDmPS>