

Deep learning for tiny devices

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Abstract

The talk aims to provide a timely review of the fast-paced field of deep learning and artificial intelligence technologies for mobile devices. Enabling deep learning on mobile devices provides several advantages such as data privacy and quicker response times. While traditional computation paradigms rely mostly on cloud computing and connectivity to the cloud, recent breakthroughs in the field have enabled numerous mobile applications. Mobile devices are constrained by the size, weight, area and power considerations and also their computational capabilities. Addressing certain key challenges in deploying deep learning to mobile devices author aims to present the current state of the art techniques and algorithms in their relation to algorithm optimizations that simplify computation while retaining performance accuracy. They also aim to briefly present various applications of these algorithms in industries, ranging from robotics and healthcare to autonomous driving and defense supporting them with implementations and benchmark.

Biography

Anudeepsekhar Bolimera is from Birla Institute of Science and Technology - Pilani, UAE. He is an Entrepreneur with knowledge on computer vision, IOT, autonomous robotics, deep learning and AI.



World Summit on Robotics | June 08 2020

Citation: Anudeepsekhar Bolimera, Deep learning for tiny devices, Robotics Congress 2020, World Summit on Robotics June 08, 2020, Page 04

