

علمی سمینار



Challenges and opportunities of deploying machine learning systems on edge devices

Abstract



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embedded computer vision

و

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Edge computing enables advanced on-device processing, continuous learning, and decision making. This paradigm lowers dependence on the cloud and hence reduces the latency for critical applications and potentially enhances the privacy of users. On the other hand, it entails certain design and implementation challenges, including but not limited to, mapping computation and/or communication intensive algorithms to resource-constrained devices, providing essential portability and accessibility features, and ensuring security and safety at the edge. In this talk, we will evaluate edge devices as a collection of embedded systems and go over some of the implementation challenges, particularly in the scope of deploying machine learning systems. Furthermore, we will talk about some of the proposed solutions and the opportunity landscape for edge computing.



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