پژوهشگاه دانش‌های بنیادی
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سخنرانی علمی

Deep One-Class Classification

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Abstract

One-class classification poses as an essential component in many machines learning and computer vision applications, including novelty, anomaly, and outlier detection systems. With a known definition for a target or normal set of data, one-class classifiers can determine if any given new sample spans within the distribution of the target class. Solving this task in a general setting is particularly very challenging, due to the high diversity of samples from the target class and the absence of any supervising signal over the novelty (non-target) concept, which makes designing end-to-end models unattainable. In this talk, I will briefly introduce the state-of-the-art solutions for one-class classification and also present in details the several efficient deep learning methods such as ALOCC, AVID for the one-class classification task.

Mohammad is currently a senior postdoctoral researcher with the Institute for Research in Fundamental Sciences (IPM), working at the intersection of machine learning and computer vision.

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