



پژوهشگاه دانش‌های بنیادی
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Training Deep Neural Networks with Weak Supervision

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Abstract

Training deep neural networks requires many training samples, but in practice, training labels are expensive to obtain and may be of varying quality, as some may be from trusted expert labelers while others might be from heuristics or other sources of weak supervision such as crowd-sourcing. This creates a fundamental quality-versus-quantity trade-off in the learning process. Do we learn from the small amount of high-quality data or the potentially large amount of weakly-labeled data?

This talk is about how to design neural network architectures in which the learner learns from weak labels and could somehow know and take the label-quality into account so that we could get the best of both worlds.

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