



پژوهشگاه دانش‌های بنیادی

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سخنرانی علمی

Understanding deep neural networks loss landscape

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Abstract

Understanding the loss landscape of deep neural networks has been the subject of many studies due to its close connections to optimization and generalization. Empirical observations suggest that the loss landscape of deep networks has many minima. One reason behind the abundance of minima is over-parametrization. Over-parametrized networks have enough capacity to present different functions that behave similarly on the training data but vastly different on other points. Another reason is the existence of scale and permutation invariances which allows the same function to be represented with many different parameter values of the same network and imposes a counter-intuitive geometry on the loss landscape. In this talk, we first have a look at the influencing factor on the shape of the loss landscape. Then we investigate the role of permutation over loss landscape.

Biography

Rahim Entezari is a Ph.D. student of TU Graz/Complexity Science Hub, Vienna. His research interest includes understanding deep learning phenomena with a special focus on loss landscape and the effect of sparsity. Before moving to Austria, he completed his master's studies at IUST and BSc in computer engineering at AUT.

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