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THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

PHD STUDENT SEMINAR

Bidirectional Generative Modeling Using Adversarial Gradient Estimation

By

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Abstract

We consider the general f-divergence formulation of bidirectional generative modeling, which includes VAE and BiGAN as special cases. We present a new optimization method for this formulation, where the gradient is computed using an adversarially learned discriminator. In our framework, we show that different divergences induce similar algorithms in terms of gradient evaluation, except with different scaling. Therefore this paper gives a general recipe for a class of principled f-divergence based generative modeling methods. Theoretical justifications and extensive empirical studies are provided to demonstrate the advantage of our approach over existing methods.

Date : 15 May 2020 (Friday)
Time : 10:30am – 11:30am
Zoom Meeting : https://hkust.zoom.com.cn/j/96396217133

All are Welcome!