INSALATE DI MATEMATICA

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ARMAND LEY

Université de Haute-Alsace A brief introduction to entropic optimal transport



Abstract:

In this talk, staying in the discrete setting, we will first introduce the Monge-Kantorovitch problem, which is the central problem in optimal transport. After this, we will say a few words about a functional called "entropy" (with a generalized version of it) and present its properties. This will then allow us to discuss an entropically penalized version of the Monge-Kantorovitch problem and provide some numerical illustrations of the results/interpretations presented hereafter. I will finally discuss the issues arising when we try to generalize the presented results in the non-discrete setting.

Keywords: Optimal transport · Entropy · Sinkhorn algorithm · Convergence in probability spaces

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"Obvious" is the most dangerous word in mathematics. (Eric Temple Bell)