Some topics in the foundations of supervised statistical machine learning

Vladimir Pestov*

UFPB (CNPq DCR-A Grant), Paraíba, Brazil, and uOttawa (Emeritus Professor), Ottawa, Canada

Abstract

We will discuss some set-theoretical aspects of the algorithms of supervised statistical machine learning. Examples include a problem by Vidyasagar on learnability of classes under non-atomic distributions, as well as a problem of Devroye, Györfi and Lugosi on the existence of a universally consistent learning rule with a universally monotone error.

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*vpest283@uOttawa.ca