

Faculdade de Ciências da Universidade de Lisboa
cmafcio@fc.ul.pt Tel. (+351) 21 750 00 27

SEMINÁRIO DE LÓGICA MATEMÁTICA

Dia 2 de Fevereiro (sexta-feira), sala 6.2.33 às 15:00

Using o-minimality to compute lower bounds on sample complexity of neural networks

Alex Usvyatsov
(Universidade de Lisboa, CMAFCIO)

Abstract:

I will discuss the concept of sample complexity in statistical learning theory. Then I will show how definability of many hypothesis classes (for example, essentially all artificial neural networks used in practice) in o-minimal structures, helps to compute tighter lower bounds on sample complexity for these hypothesis classes.

*Seminário financiado por Fundos Nacionais através da FCT – Fundação para a Ciência e a Tecnologia
no âmbito do projeto UID/MAT/04561/2013*

Local: FCUL, C6 - Piso 2, 6.2.33