



Mês de: **JUNHO 2013**

SEMINÁRIO DE LÓGICA MATEMÁTICA

(Please note the new time!!!!)

Dia 20 de Junho (quinta-feira), às 15h30, na Sala B3-01

The ARNN model relativises $P == NP$ and $P \neq NP$

Félix Costa

(IST and CMAF)

Abstract:

In this talk we will sketch the proof that the relations $P == NP$ and $P \neq NP$ relativise to the deterministic / non-deterministic artificial recurrent neural net (ARNN) with real weights (informally considered as oracles by Martin Davis in several papers). Although, in the nineties, a dozen of papers were written on the ARNN model, some introducing computation via neural nets with real weights and some introducing non-deterministic and stochastic neural nets, it seems that no one noticed such a relativisation, which makes the ARNN together with dynamical systems interesting but restricted models of relative computation.

(Joint work with Raimundo Leong)

Local:
**INSTITUTO PARA A INVESTIGAÇÃO
INTERDISCIPLINAR**
Av. Prof. Gama Pinto, 2
1649-003 Lisboa

