



**POLITÉCNICA**



Universidad  
Politécnica  
de Madrid

**ETSI SISTEMAS  
INFORMÁTICOS**

# **Máster en Ciencias y Tecnologías de la Computación Doctorado en Ciencias y Tecnologías de la Computación para Smart Cities**

**Curso 2014-15**

## **Seminarios de Investigación**

### **5º seminario:**

**Título:** Networks of cell-like processors

**Conferenciante:** Victor Mitrana

**Fecha:** 11 de marzo de 2015

**Lugar:** Sala de Grados (ETS de Ingeniería de Sistemas Informáticos)

**Hora:** 19:00

**Descripción:** We discuss a relatively new computing paradigm based on a bio-inspired model of computation, abstracted from the very complex networks in living systems. This talk fits into two modern areas in Computer Science: Global Computing (which includes neural networks, cellular automata, etc) and Bio-Inspired Computing (called also Natural Computing), a new and interdisciplinary field which lies at the crossroads of Mathematics, Computer Science, Molecular Biology and Linguistics. We present several aspects of computing with networks of cell-like processors particularly focused on connections between theoretical models and natural (biological) networks, as well as on computational aspects (computational power, structural and descriptonal complexity) and practical aspects (simulation and implementation).

Madrid, a 26 de febrero de 2015

Fdo.: D. Jesús García López de Lacalle  
(Coordinador de la asignatura)