

## Universidad Internacional Menéndez Pelayo (UIMP)

### 1st Meeting in Commemoration of Alan Turing - 2012 Year of Computer Science

August 6th to 8th 2012

**Director:** **Juan José Moreno Navarro**  
*IMDEA Software y Universidad Politécnica de Madrid*  
*Turing Year Committee Chair / Computer Science Year Spain*

**Subdirector:** **Francisco Tirado Fernández**  
*Universidad Complutense de Madrid*  
*President of the Spanish Computer Science Society*

**Secretary:** **Elvira Mayordomo Cámara**  
*Universidad de Zaragoza*

#### Student funding available for registration and lodging

**Sponsors** This meeting is part of the activities of the Alan Turing Year / Year of Computer Science



With the collaboration of



This meeting is part of the national and international celebrations of the Alan Turing Year / Year of Computer Science. Alan Mathison Turing, considered the father of computing as we know it today, was born in London on June 23, 1912. Thus, 2012 is the centenary of his birth. Today his work is universally recognized as an exceptional scientist and intellect, although his personal life was less fortunate. A movie life uncommon for a scientist that was connected with the espionage that allowed the Allied victory in World War II and that ended with his suicide motivated by his conviction for homosexuality.

The Alan Turing Year / Year of Computer Science offers the opportunity to spread the global developments and research in Computer Science as well as the significant and excellent results Spain is showing in this field. These same goals are assumed by the meeting: On the one hand we want to honor Alan Turing and publicize his life and work. On the other hand, we intend to analyze the significant progress of IT (Information Technology) in Spain, studying the contributions in each of its sub-areas: Artificial Intelligence, Computer Architecture, Software Development, Natural Language, Image Processing, etc.

The course consists of three blocks:

1. The figure of Alan Turing,
2. Advances in Computer Science in Spain, and
3. The Future of Information Technology in Spain and worldwide.

In this sense, we will have conferences on the work of Alan Turing and his visionary capacity of the subsequent evolution of computing. Prestigious national and foreign researchers will analyze the current challenges in their area of expertise, making this meeting a magnificent prospective assessment of future research, always in a highly divulgative fashion. We will also stress the very significant Spanish contribution to these challenges. Confirmed Speakers include Rod Downey, and

This course is aimed at those interested in the dissemination of advances in research, extension and research managers, young researchers and fans of advances in new technologies.

## Monday 6 **Open Challenges and Spanish contributions**

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- 9.30h**      **Registration**  
*President of UIMP*  
*Course directors*  
*Juan Corro, State Secretary of Telecommunications and Information Society (to be confirmed)*
- 10.00h**      **Opening**
- 10.30h**      **The fascinating trip of Artificial Intelligence**  
*Ramón López de Mántaras*  
*IIIA, CSIC*
- 12.00h**      **Natural Language Processing**  
*Manuel Palomar*  
*U. de Alicante*
- 15.30h**      **Data Bases**  
*Arantza Illaramendi*  
*Universidad del País Vasco*
- 16.30h**      **Roundtable: Computer Science in Spain**  
*Juan José Moreno Navarro*  
*Manuel Palomar*  
*Ramón López de Mántaras*  
*Arantza Illaramendi*  
*Juan Corro, State Secretary of Telecommunications and Information Society (to be confirmed)*
- Moderator**  
*Elvira Mayordomo*

## Tuesday 7 **Alan Turing and the birth of Computer Science**

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- 9.30h**      **Turing and the birth of computers**  
*Rod Downey, Victoria University of Wellington (Nueva Zelanda)*
- 11.00h**      **Humanoid robots and Alan Turing's vision of Artificial Intelligence**  
*Luc Steels, ICREA - Institut de Biologia Evolutiva (UPF-CSIC) Barcelona & Sony Computer Science Laboratory Paris*
- 12.30 h**      **Randomness from Borel through Turing and into the 21st Century**  
*Rod Downey, Victoria University of Wellington (Nueva Zelanda)*

**16.30h**

**Turing from Mathematics**

*Antonio Campillo, Universidad de Valladolid, President of the Spanish Royal Society of Mathematics*

**Wednesday 8**

**Computer Science and its future**

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**9.30 h**

**Neurotechnology: Looking for the connection between brains and computers**

*Javier Mínguez, Universidad de Zaragoza, Bitbrain Technologies*

**11.30h**

**Commercialization of Innovation and Entrepreneurialism**

*Manuel Fuertes, University of Oxford Technology Transfer Company (Isis Innovation)*

**13.30h**

**Closure**

**[Information and registration](#)**

**<http://www.uimp.es/estudiantes/cursos-de-verano-santander-2012.html>**

**Price: 129 €**

**[Becas Santander](#) (plazo de solicitud del 15 al 30 de Julio)**

**[Course page](#)**

**<http://babel.ls.fi.upm.es/~jjmoreno/TuringUIMP/>**