



### **Academic education**

- 1984 PhD Thesis and Doctorate degree in Computer Science, Polytechnical University of Catalunya, Spain  
Supervisor: Prof. Fernando Orejas Valdés
- 1972 Master and Bachelor Degree in Physics, Complutense University of Madrid, Spain

### **Professional record**

- 2002 – today Full Professor, Complutense University of Madrid
- 1991 – 2002 Associate Professor, Complutense University of Madrid
- 1984 – 1991 Associate Professor, Polytechnical University of Catalunya
- 1972 – 1984 Project leader in companies in the areas of telecommunication and computer aided design

### **Research lines**

Formal methods, concurrent program verification, parallel functional programming, static analysis, proof carrying code, computer assisted verification, automated test case generation.

### **Key figures:**

- Number of publications in journals (DBLP): 14
- Number of publications in refereed conference proceedings and book collections (DBLP): 51
- Number of proceeding editorship (DBLP): 9
- Number of text and scientific divulgation books: 4
- Number of citations (Google scholar): 1.431
- H-index (Google scholar): 21

### **Supervision of PhD students**

- Javier de Dios Castro (January 2012) Formal Certification of Functional Programs.
- Manuel Montenegro Montes (November 2011) Safety and Bounded Memory Analyses in a Functional Language.
- Clara María Segura Díaz (November 2001) Program Analysis of Parallel Functional Languages.
- Fernando Rubio Díez (November 2001) Efficient Parallel Functional Programming.
- Luis María Alonso González (October 1992) Formal Methods for Hierarchical Development of Concurrent Systems.

### **Conference PC chair**

- Foundational and Practical Aspects of Resource Analysis, FOPARA 2013, Bertinoro (Italia)
- Trends on Functional Programming, TFP 2011, Madrid (España)
- Foundational and Practical Aspects of Resource Analysis, FOPARA 2011, Madrid (España)
- Practical Aspects of Declarative Languages, PADL 2010, Madrid (España)
- Implementation of Functional Languages, IFL 2002, Madrid (España)

### **Research projects as Main Researcher**

- Spanish National Plan competitive Projects: Computer Assisted Validation CAVI-ART-2 (TIN2017-86217-R, 2018-20); Computer Assisted Validation CAVI-ART (TIN2013-44742-C4-3-R, 2014-17); Proof Carrying Code SELF-UCM (TIN2004-07943-C04-04, 2004-07); Parallel Functional Programming (TIC2000-0738, 2001-03); Eden: Development of a Functional-Concurrent Language (TIC97-0672, 1997-00).
- Madrid Regional competitive projects: Proof Carrying Code (GR85/06, 2007); Eden: Development of a Functional-Concurrent Language (06T/033 /96, 1997-99).