

2007 Eckert-Mauchly Award



Professor Mateo Valero of the Technical University of Catalonia and Director of Barcelona Supercomputing Center has been selected as the recipient of the [2007 Eckert-Mauchly Award](#). This has been awarded annually since 1979 for outstanding contributions to computer and digital systems architecture. It is a US award administered jointly by the Institute of Electrical and Electronics Engineers (IEEE) Computer Society and Association for Computing Machinery (ACM). Prof. Valero is only the second European to win this award for his extraordinary leadership in building a world class computer architecture research centre, for seminal contributions in the areas of vector computing and multithreading, and for pioneering basic new approaches to instruction-level parallelism. Calling the award the highest honour which can be bestowed in the field of computer architecture, Prof. Mateo Valero says that "receiving this award is to recognize the effort of a lot of people who collaborated with me and, especially, my PhD students."

[Prof. Valero](#) is the co-ordinator of the [HiPEAC](#) Network of Excellence on High-Performance Computer Systems and is involved in a number of other EU funded projects. The project addresses the research challenges faced by the industry today include programming parallel computing systems and low power computing for mobile devices like cell phones. With a 10+ year horizon, HiPEAC covers the design of microprocessors and associated tools (compilers) as well as the evaluation of upcoming applications made possible by the increased power of future computing devices. The [Barcelona Supercomputing Centre](#) has the most powerful computer in Europe, called the [MareNostrum](#), which is currently [ranked](#) fifth in the world.

