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Cognitive Computers: The Next Wave of Computing Innovation

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Entrada libre hasta completar el aforo

Resumen:

The computing ecosystem is at the verge of an important transformation. After the pioneer large computer systems, a first revolution was sparked by the personal computer by making computing accessible to every single person not only at work but also at home for personal uses. These personal computers have evolved to more powerful and smaller systems and have expanded into a variety of form factors such as ultrabooks, tablets and smartphones. These personal devices, or evolutions of them, will keep being important systems for the end-user in the future, but at the same time, a new generation of computing devices are emerging. We envision a world where computing will expand from business and personal uses to be present everywhere: in our cars, in the lighting system of a city, in our shoes, and in the clothes we wear just to name a few. These devices will be interconnected and interoperable, will have the capability of understanding the world around them and provide real time responses in complex situations, emulating human perception and problem solving. In this talk we will discuss this trend and some of the research areas that will be key to make this vision a reality.

Sobre Antonio González:

Antonio González received his Ph.D. degree from the UPC, in Barcelona, Spain, in 1989. He joined the faculty of the Computer Architecture Department of UPC in 1986 and became a Full Professor in 2002. He was the founding director of the Intel Barcelona Research Center from 2002 to 2014.

His research has focused on computer architecture. In this area, Antonio holds over 40 patents, has published over 300 research papers and has given over 100 invited talks. He has also made multiple contributions to the design of the architecture of several Intel processors.

Antonio has been program chair for ICS 2003, ISPASS 2003, MICRO 2004, HPCA 2008 and ISCA 2011, and general chair for MICRO 2008 and HPCA 2016 among other symposia. He has served on the program committees for over 100 international symposia in the field of computer architecture, and as an Associate Editor of the IEEE Transactions on Computers, IEEE Transactions on Parallel and Distributed Systems, IEEE Computer Architecture Letters, ACM Transactions on Architecture and Code Optimization, ACM Transactions on Parallel Computing, and Journal of Embedded Computing.

Antonio's awards include the award to the best student in computer engineering in Spain graduating in 1986, the 2001 Rosina Ribalta award as the advisor of the best PhD project in Information Technology and Communications, the 2008 Duran Farrell award for research in technology, the 2009 Aritmel National Award of Informatics to the Computer Engineer of the Year, the 2013 King James I award for his contributions in research on new technologies, and the 2014 ICREA Academia Award. He is an IEEE Fellow.