Conferència de la Societat Catalana de Tecnologia

La sessió se celebrarà el **dilluns 6 de juny de 2011**,
a les 12 hores, a la Sala d'Actes de l'Edifici U de la Facultat de Matemàtiques i
Estadística de la Universitat Politècnica de Catalunya
(carrer de Pau Gargallo, 5, de Barcelona).

Títol: **«Function model of a control unit - a bionic approach»**

Ponent: **Prof. Dr. Dietmar Dietrich**

Sinopsi

Research in automation focuses on systems which are capable of solving very complex tasks and problems. Artificial Intelligence and especially Cognitive Science have brought remarkable successes; however, in some areas the boarders of feasibility and further extension are reached. Compared to human intelligence the range of capabilities of the solutions is still modest. In the ARS project we argue why we see the necessity to introduce a novel approach for creating models, which possibilities and tools computer engineering can offer, why a psychoanalytical template is considered meaning-ful, and which open problems could be tackled or even broken through with this approach, respectively. The international research collaboration is constantly growing counting more than ten academic partners worldwide.

Sobre l'autor

Dietmar Dietrich is director of the Institute of Computer Technology, Technical University of Wien from 1999. Prior to this, he worked in the aviation and space industry (computer architecture and bus systems), and later in the communication industry (mainly in ISDN development). His research interests were digital ASIC design, and is still today mainly in communication systems - especially on fieldbus systems -, as well as modeling of psychoanalytical apparatus for developing intelligent automation systems. He is a member of various national and international organizations and also a delegate of the OVE and ON in CEN and CENELEC. In 1994, he founded the Center of Excellence for Fieldbus Systems. He is a Senior Member of IEEE, Associated Editor for Transactions on Industrial Informatics (TII), ADCOM Member, initiator as well as TC Co-Chair of BACM (Building Automation, Control and Management Systems) in IES/IEEE. Furthermore, he is Associate Editor for EURASIP and co-organizer of various tracks and conferences for IEEE. In 2006, he became Chair of Section Austria in IEEE R8.