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He is full professor in the Telematics Department of the Universitat Politècnica de Catalunya and director of the Fundació i2Cat. He is also the responsible of the connectivity area at the SEAT-UPC Chair. His research activity is focused on the usage of the wireless systems and Internet access technologies. He is coauthor together with C. Gomez and J.E. Caballero of the book "Sensors Everywhere: Wireless Network Technologies and Solutions?", published by Fundación Vodafone in 2010. He managed to install in 2007 the first smart city in Spain in the village of Sant Vicenç del Horts. It consisted on more than 80 nodes. Some of them are installed in lampposts to create an access network and the others in different places such trash containers, parking places or green zones. From 2010 to 2012 he has been in charge of the participation of the UPC in the project BCI (Barcelona Ciudad Inteligente) where new concepts such a REST protocol was defined to communicate from the gateway to the platform. Also with the support from Orange the infrastructureless smart city is demonstrated. This implies to have a public bus moving in the city and collecting information from sensors and measuring certain parameters by itself. At present he is participating in a lighthouse project called Growsmarter. The participation of i2CAT will deploy a set of environmental sensors in electric bikes.