From Sensing to Understanding: Research Experiences at NDS LAB

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Abstract - The ever-increasing diffusion of embedded and pervasive systems has enriched our everyday living environments with a ubiquitous network of sensors, which enable us to collect tons of data quite cheaply. The availability of large collections of data has increased the awareness that “measuring” does not seamlessly translate into “understanding”, and more data does not entail more knowledge. The title “From Sensing to Understanding” synthetizes the activities developed at Network and Distributed Lab of University of Palermo. In particular, the main topics will be the application of Ambient Intelligence techniques for energy saving in buildings, the real-time analysis of data streams from social sensors, and finally the proposal of grammar inference for structural knowledge extraction.

Brief Bio – Giuseppe Lo Re is associate professor of computer engineering at the University of Palermo. He received the Laurea degree in computer science at the University of Pisa, in 1990 and the Ph.D. in computer engineering at the University of Palermo, in 1999. His current research interests are in the area of computer networks and distributed systems, broadly focusing on Wireless Sensor Networks, Ambient Intelligence, Internet of Things.