Abstract

In this thesis a biologically inspired logical model for an ambient intelligence system has been proposed and developed.

A multisensorial architecture, for the collection and the fusion of data coming from heterogeneous sensors, has been taken as base for the development of a causal model able to represent relationship between user and system. The model has been used to automatically learn these relations and to supply a prediction on the future internal state in order to communicate with the user more pervasively and efficiently.