

The Perplexus Bio-Inspired Platform

The PERPLEXUS project aims to develop a scalable hardware platform made of custom reconfigurable devices endowed with bio-inspired capabilities that will enable the simulation of large-scale complex systems and the study of emergent complex behaviours in a virtually unbounded wireless network of *Ubidules* (ubiquitous computing modules).

The heart of these *Ubidules* hosts a *UbiChip*, a custom reconfigurable electronic device providing special reconfigurability mechanisms for allowing bio-inspired adaptation capabilities such as growth, learning, and evolution.

