

CORE-TX Project

CORE-TX

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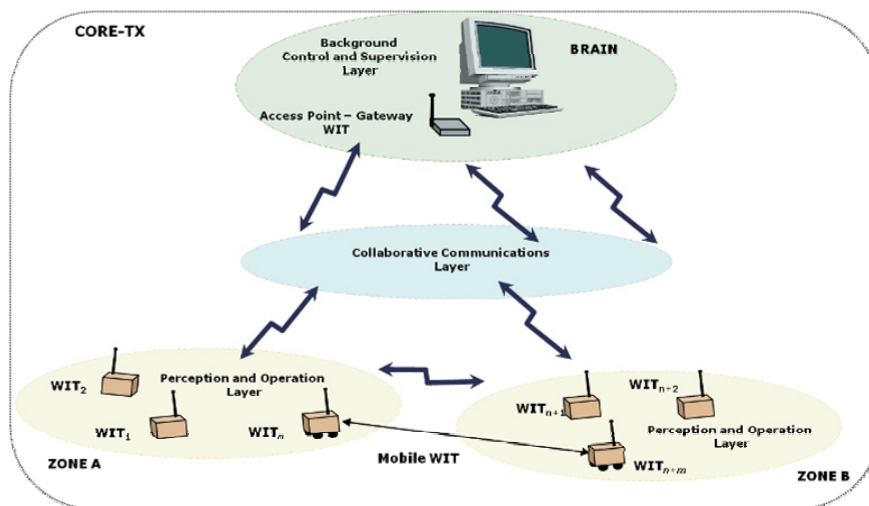
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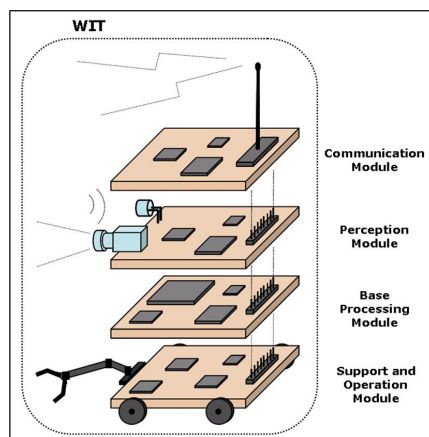
Project Specifications

The CORE-TX (**C**ollaborative **R**obotic **E**nvironment – the **T**imisoara **eX**periment, read as "cortex") system is conceived as a complex platform composed at architecture level by a heterogeneous set of autonomous Microsystems with embedded intelligence, a collaborative communication environment and a central entity with the role of configuration, controlling and supervising of the whole system (see the figure).



The CORE-TX model is based on applying advanced principles of complex digital systems architecture: modularity, flexibility, reliability, reconfigurability, functional abstraction, etc.

At the operation and perception layer, the CORE-TX system interacts with the environment through autonomous microsystems with embedded intelligence called *WIT* (**W**ireless **I**ntelligent **T**erminal).



The WIT elements can have perception functions (intelligent sensors), or operating functions (autonomous mini-robots) or combined.