Context
It is a fact that a distributed environment has no central point of decision and reasoning. Lending notions from Multi-Agent Systems (MAS), such an environment provides distributed reasoning and computation within the scope of the scalability of the system. Requiring from every node to "give its two cents" in the system, the coordination of such systems tends to be a very hard task. When it comes to using sensors to track an object for example, you have to distribute them in an environment and try to figure out the path of the object in this environment.

Scope of the Thesis
The scope of this thesis is to research how such a tracking system can be realised in scenario of tracking a person down the hallway for example. The method that should be developed should lend from MAS systems with a task to distribute the decision how to track a specific object. Designing and implementing a distributed system involves development, utilization and integration of various techniques in computer network, software and hardware.

Requirements and Comments
• Good programming skills are required.
• Hardware hands-on
• Knowledge of network protocols

If you are interested in this or similar theses, please contact Athanasios Tsitsipas either by mail or directly in his office.

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