The use of smartphone devices over the past years seems to follow a growing trend. This great acceptance along with the endless possibilities that go hand to hand with having a mini computer at all times within reach, can explain this vast interest shown by solo developers and major companies in the mobile industry. As a result, many innovative applications roll out daily to the various online stores, making the lives of the smartphone users a lot better. This thesis describes the design and implementation of a mobile app, a Web Service and a TinyOS application, that bind together allowing the user to execute a variety of queries on a sensor network from any place in the world.

**References**

2. Nicolas Burri, Roland Flury, Silvan Nellen, Benjamin Sigg, Philipp Sommer, and Roger


**Index Terms**

Computer Science

Wireless

**Keywords**

Smartphone, Wireless Sensor Network, Sensor Network Control Smartphone, Android Phone Control of Sensor Network, iOS Phone Control of Sensor Network;