

0. Development of the theory of construction the sensors systems end using the IP end the nano-microtechnologie.

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3. Results.

The advent of nano-technology and advances in communications has made it technologically feasible and economically viable to develop low-power devices that integrate general-purpose computing with multi-purpose sensing and wireless communications capabilities. It is expected that sensor networks will have a significant impact on a wide array of applications ranging to scientific, to industrial, to health-care, to domestic, to environmental.

As new fabrication and integration technologies reduce the cost and size of micro-sensors and wireless interfaces, it becomes feasible to deploy densely distributed wireless networks of sensors and actuators. These systems promise to revolutionize environmental monitoring applications, providing data at granularities unrealizable by other means. In addition to the challenges of miniaturization, new system architectures and new network algorithms must be developed to transform the vast quantity of raw sensor data into a manageable stream of high-level data.

In this the rapport we propose the researchers the sensor networks end the sensor node, the integrated sensor platform of environmental monitoring applications. We proposed the new methodology for developing the sensor networks end new module a radio networks interface end the system for environmental monitoring magnetique in soil.

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