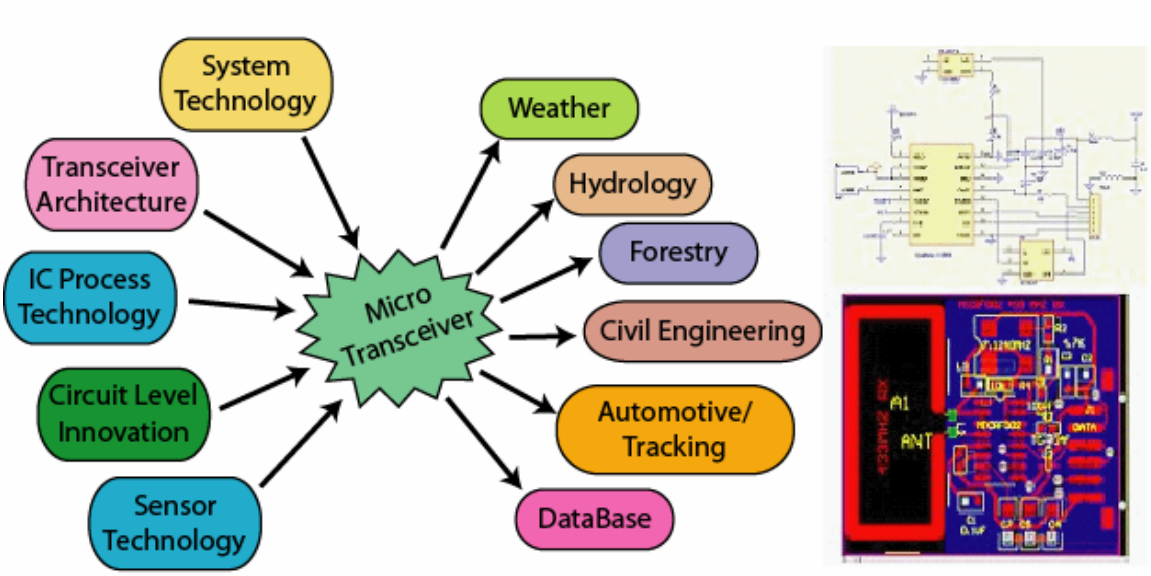
UNIVERSITY OF NORTH FLORIDA *Commercializing Technology*

Intelligent Networked Sensors

Description

The University of North Florida has developed and deployed Intelligent Networked Sensors in various applications. The Intelligent Network Sensor employs an embedded system design incorporating a digital signal processor, various sensors, wireless spread spectrum communications, and impromptu network architecture. In some cases, a GPS subsystem is included for capturing spatial information. This applied research allows the capture of information from the field, transmitting the field records to an Internet for display on a GIS geographic database. The Intelligent Networked Sensor system is shown in the following figure.



patents pending

Advantages

- Real time sensor reporting on conditions of interest
- Ad hoc or Impromptu network technology for automatic node connection
- Two-way wireless communications
- GPS capable
- Internet capability

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