

# Wireless Sensor Networks - Connecting the Internet to the Physical World

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Wireless Sensor Networks have attracted much interest in the scientific community over the past six to seven years due to their design challenge and their application space, which is only really limited by our imagination. Ongoing research in wireless sensor networks covers all aspects of hardware, software, and network design. One of the most attractive opportunities for wireless sensor network development is the connection to the Internet in order to provide the Internet with a connection to the physical world. This talk will present a brief overview of wireless sensor network characteristics, design challenges, and challenges for Internet connectivity. A brief overview of the sensor network application space will be given with a specific focus on wireless building management and control, a focus of the Cork Smart Building Cluster.