Abstract

Wireless Multimedia Sensor Networks (WMSNs) is simply a wireless sensor network supporting multimedia traffic by deployment of data sensors and multimedia sensors as the nodes. The requirements of the WMSN is much different and specific as compared to other genera wireless networks, hence requires more specific protocols designed for each layers.
These layers need to support the issues that multimedia traffic brings to the sensor networks, e.g. QoS, energy, MAC layer, bandwidth, etc. However it doesn’t support the cause that these protocols are being treated as independent identities, as WMSN requires a cross-layer optimization of these protocols for proper functioning. With the assumption that most of the multimedia traffic consists of real-time video sensing and transmission, several solutions have been released, proposed and still are in research.

Reference

Multimedia Data Navigation in Wireless Sensor Networks

Annals of Telecomm., 60(7-8), pp. 799-827, July, 2005

- M. Zuniga, B. Krishnamachari, Integrating future largescale sensor networks with the Internet, USC, CS, TR, CS 03-792, 2003.

Index Terms

Computer Science

Data Mining
### Key words

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<th>Wireless Sensor Networks</th>
<th>Multimedia Communications</th>
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Cross-layer protocol design

Quality of service