Wireless Sensor Networks (WSN) are highly distributed self organized systems. WSN have been deployed in various fields. Because of some hardware problems, especially with respect to energy supply and miniaturization, WSN have certain shortcomings. This paper focuses on various issues such as routing challenges and design issues, topology issues and Quality of Service support issues associated with WSN. Design issues emphasis on designing the Wireless Sensor Networks in such a way that it should provide a fault tolerant communication with low latency. Topology issues include geographic routing, sensor hole problems and sensor coverage issues. Quality of Service aims at providing better networking services over current technologies.
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Index Terms

Computer Science Wireless Sensor Networks

Key words
Latency

Reliability

sensor holes

Quality of Service

Jitter

Routing