

# Survey on Data-Centric based Routing Protocols for Wireless Sensor Networks

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## Abstract

The great concern for energy that grew with the technological advances in the field of networks and especially in sensor networks has triggered various approaches and protocols that relate to this field. In this context, the routing protocols were of great interest. The aim of the present paper is to discuss routing protocols for sensor networks. This paper focuses mainly on the discussion of the data-centric approach (COUGAR, rumor, SPIN, flooding and Gossiping), while shedding light on the other approaches occasionally. The functions of the nodes are discussed as well. The methodology selected for this paper is based on a close description and discussion of the protocol. As a conclusion, open research questions and limitations are proposed to the reader at the end of this paper.