# Cooperation vs. Non-Cooperation Basedrouting Protocols in WBAN

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*Abstract*—Design of routing protocols has seen remarkable advancement in the field of Wireless Body Area Networks (WBANs).These protocols work to enhance the performance of WBAN by focusing on routing, energy efficiency and end-to-end delay. As these protocols can be categorized in a variety of ways according to the mechanisms and functionalities they follow, hence it becomes important to understand their principal of operations. In this research, we have selected some recent routing protocols in the field of WBAN and presented a comparative analysis according to the categories on which they rely. Also a detail analysis of their key advantages and flaws are also identified in this research.

*Keywords:* WBAN, Routing protocol, Relay node, Sink, Energy efficiency, End-to-End delay, Network stability