

ABSTRACT**PEER-TO-PEER COMMUNICATION IN WIRELESS SENSOR NETWORK
THROUGH DELAY RESPONSE BETWEEN PACKETS**

A method for transmitting data between first and second nodes in a network comprises (a) the first node sending a start packet to the second node, (b) the first node starting a first counter concurrently with sending the start packet, wherein the first counter adds a first count a predetermined count time after the first counter starts and then adds another first count the count time after the most recent first count to accumulate first counts while the first counter is running, (c) the second node starting a timer in response to the start packet, (d) the second node starting a second counter in response to the timer running for a predetermined delay time, wherein the second counter adds a second count the count time after the second counter starts and then adds another second count the count time after the most recent second count to accumulate second counts while the second counter is running, (e) the first node stopping the first counter and sending a stop packet to the second node in response to the first node determining that the number of accumulated first counts corresponds to the data, thereby transmitting the data solely as a time interval between the start and stop packets, and (f) the second node stopping the second counter in response to the stop packet and determining the data based on the number of accumulated second counts, thereby determining the data based solely on the time interval between the start and stop packets.

FIG. 6