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Sommario/riassunto	As many experimental simulations were conducted in the field of wireless sensor networks, OMNeT++ has gained popularity due its scalability and rich graphical user interface. The use of OMNeT++ based simulation for reliable point-to-point wireless transmission and realistic Segmentation and Reassembly (SAR) with error control for a distributed wireless sensor network are explored. Simulations demonstrated that OMNeT++ is a reliable method for bridging theory and practice and building confidence in this tool for implementing future networks. A particular example of SAR with error control was implemented, and showed promising and realistic outcomes regarding the relation-ship between BER, PER, window size, and system efficiency.