

Performance study of the ieee 802.15.6 slotted aloha mechanism with power control

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Abstract:

Recent developments in wireless systems and sensor technologies have spurred the interest on the design and development of Wireless Body Area Networks (WBANs). The performance of such systems will very much rely on protocols capable of dealing with the stringent QoS requirements of the end applications. Towards this end, numerous studies are being carried out aiming to evaluate the IEEE 802.15.6 MAC protocol. In this document, we undertake the development of a simulation tool enabling the study of the IEEE 802.15.6 slotted-Aloha MAC under various channel error patterns. Our study includes some preliminary results are included.