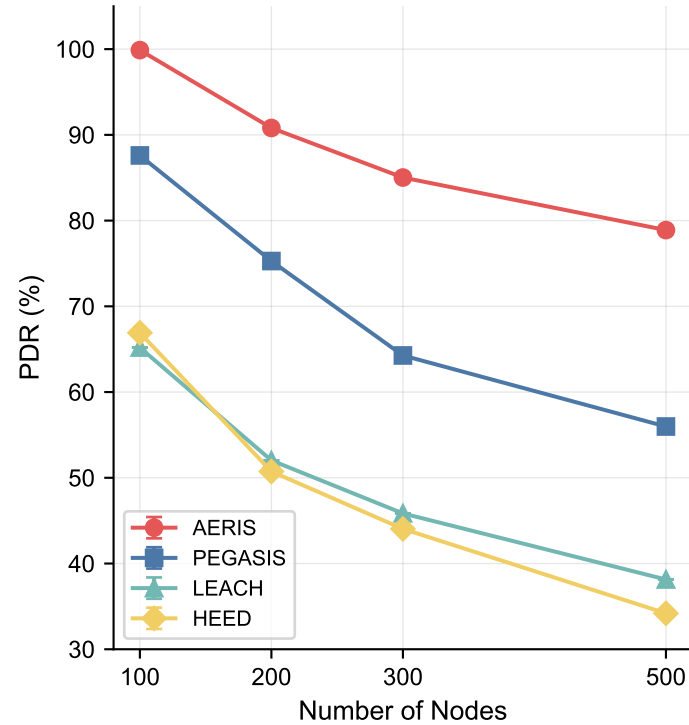
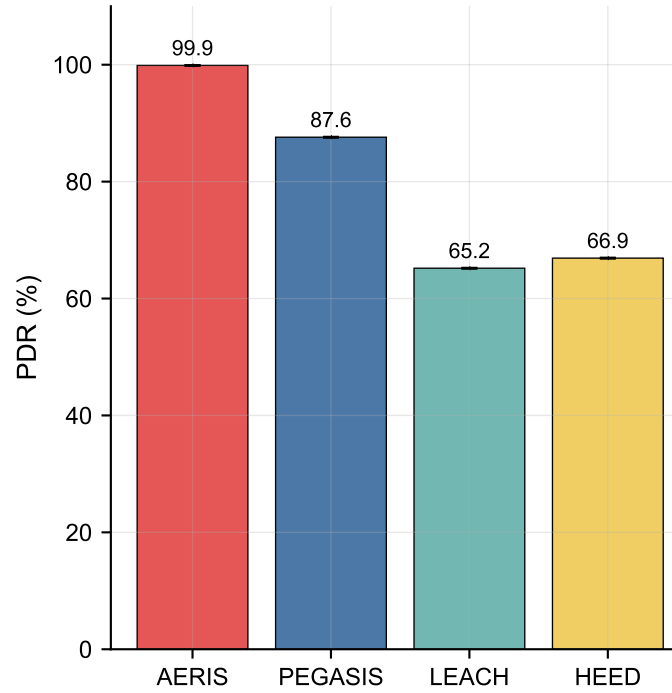


AERIS Protocol Performance Comparison

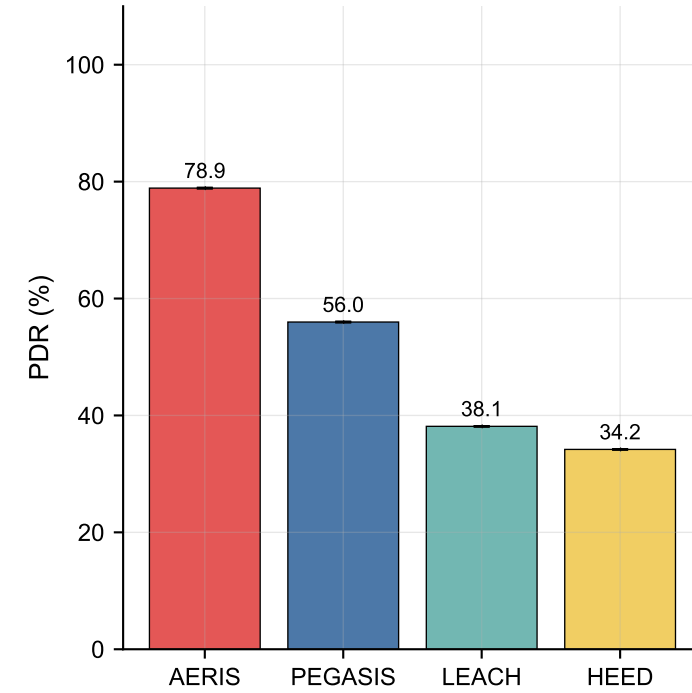
(a) PDR vs Network Scale



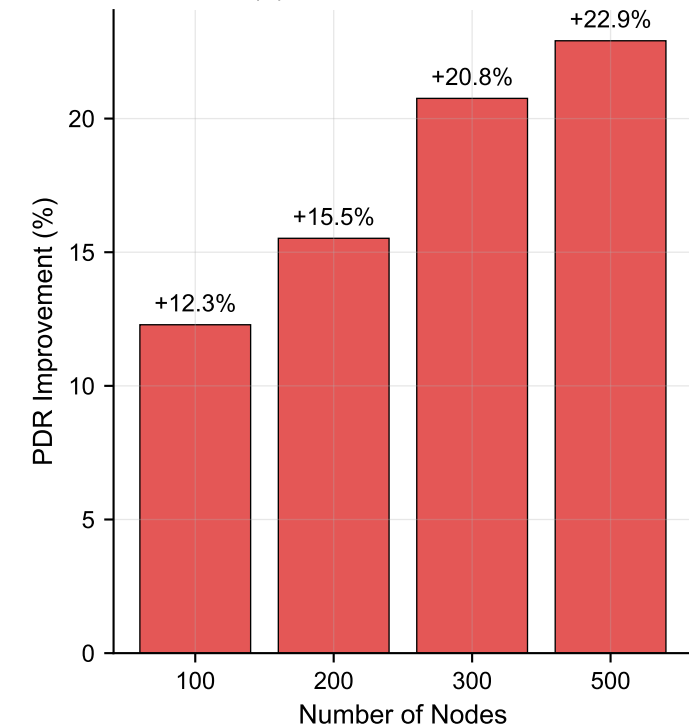
(b) 100 Nodes



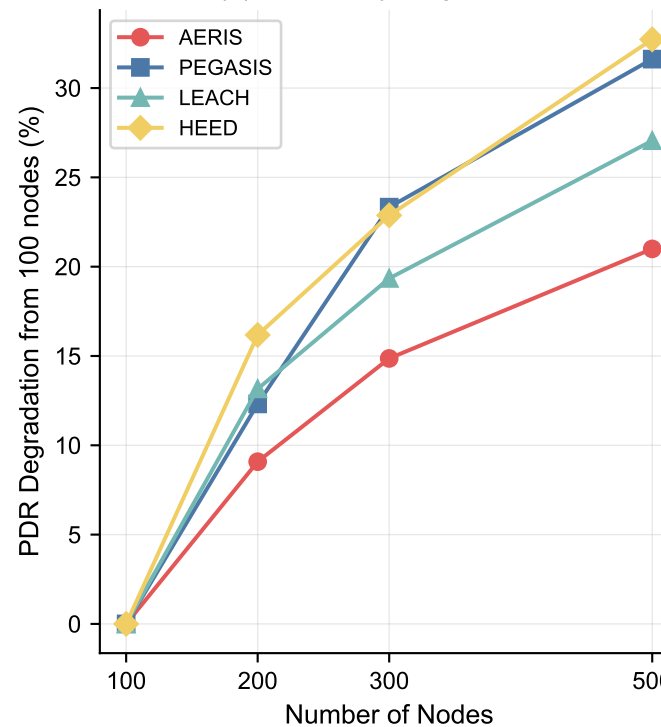
(c) 500 Nodes



(d) AERIS vs PEGASIS



(e) Scalability Degradation



(f) Summary

Statistical Summary	
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AERIS Advantages:	
100 nodes:	+12.3% vs PEGASIS
200 nodes:	+15.5% vs PEGASIS
300 nodes:	+20.8% vs PEGASIS
500 nodes:	+22.9% vs PEGASIS
Experimental Setup:	
Replicates: 60 per config	
Rounds: 1000	
Channel: Log-normal ($\sigma=8\text{dB}$)	
Energy: CC2420 model	