

**197. EALBA-R:ENERGY EFFICIENT LOAD BALANCING
GEOGRAPHIC ROUTING AROUND CONNECTIVITY HOLES
IN WIRELESS SENSOR NETWORKS**

S.karpagavalli(ME-communication system engineering), Mrs.Sherin shibi(Assistant professor)

Electronics and Communication Engineering

Loyola Institute of Technology,Palanchur

karpagamsivamal@gmail.com,shibicharles@gmail.com

EALBA and Rainbow (EALBA-R) together solve the problem of routing around a dead end without overhead-intensive techniques such as graph planarization and face routing. The protocol is localized and distributed, and adapts efficiently to varying traffic and node deployments. Through extensive ns2-based simulations, we show that EALBA-R significantly outperforms other convergecasting protocols and solutions for dealing with connectivity holes, especially in critical traffic conditions and low-density networks. Our results show that EALBA-R is an energy-efficient protocol that achieves remarkable performance in terms of packet delivery ratio and end-to-end latency in different scenarios.

Keywords—connectivity holes,dead ends,convergecasting protocol

Journal of Science and Innovative Engineering & Technology