Abstract

The impact of energy based heterogeneity is investigated through Source Initiated Reactive algorithm for event driven applications to understand the impact of heterogeneous network on energy efficiency and network lifetime. Based on the simulated experimental and numerical results, it is found that the energy efficiency performance is enhanced by 24% for correlated and 40% for uncorrelated event detection by interposing heterogeneity. With the aid of these
observations, one can say that this novel approach can help us contribute in the energy-efﬁciency context, and future solutions can take advantage of the proposed algorithms and observations.

References

- Sharma, Nonita, Ajay K. Sharma, and Kumar Shashvat. "Impact of
Index Terms

Computer Science

Wireless

Keywords

Event Detection; Heterogeneity; Spatial Correlation; Temporal Correlation; Routing; Energy-efficiency.