Abstract

Smart meters used in electric grids need a dedicated network that should be highly reliable & cost effective. Various techniques like 3G cellular have been proposed to improve efficiency of this smart grid electric meter network. For distribution of proper information in smart grid system Hybrid Spread Spectrum using slow frequency technology is also better choice. To improve the performance of this network in the terms of throughput and number of smart meter per data aggregation point (DAP), we have proposed HSS-FFH (to implement AMI) method. These techniques give better result in terms of coverage high density population area & interference immunity.

References

A. Nesbitt, B. Stewart, S. McMeekin, S. Conner, J. Gamio, K. Liebech- Lien, H. Kristiansen, and S. Krakenes; "A novel approach to high voltage substation surveillance using radio frequency interference measurement," in Electrical Insulation Conference,
Hybrid Spread Spectrum based Smart Meter Network using Fast Frequency Hopping


- Marc Greis, "NS2 Tutorial Documentation" maintained and being expanded by VINT group.


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Index Terms

Computer Science

Networks

Keywords

AMI DAP HSS Fast Frequency Hopping Slow Frequency Hopping