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# Distribute Antenna System (DAS) Provide High Rate Transmission Wireless Application

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## Abstract

Wireless Ad Hoc Networks and base stations combine to build a hybrid wireless ad hoc network. Wireless ad hoc network data is transmitted to the destination via a multi-hop method due to the lack of infrastructure. In some cases, a group of base stations is the goal of the wired infrastructure, which is embedded within the ad hoc networks and connected by wired links, is to improve the performance of the entire network. Hybrid wireless ad hoc networks are the name given to the resulting network. 31 papers that were submitted in response to the open call for papers on hybrid wireless ad hoc networks were chosen for inclusion in this special issue.

**Keywords:** Satellites • Cyber-attacks • Antenna

## Introduction

These publications highlight some of the most recent findings and areas of interest in this field. A cellular service provider finds it more challenging to provide enough cellular spectrum resources to fulfil the daily changes in traffic demand due to the growth of mobile traffic and highly dynamic real estate. The authors of the paper "Reverse spectrum auction algorithm for cellular network offloading"., take into account the changing characteristics of the traffic demands on cellular networks and propose an ideal, honest reverse auction incentive framework that can reduce the leasing costs incurred by the mobile network operator under the presumption of meeting the traffic demand of each time period.

## Literature Review

Approaching the capacity of K-user MIMO interference channel with interference counteraction scheme," studies the general K-user MIMO interference channel with M antennas at each transmitter and N antennas at the corresponding receiver. Interference counteraction scheme is proposed to improve the entire achievable rate of such channel under the assumption that the global channel state information (CSI) is available to the receivers. High data rate transmission can be provided by a distribute antenna system (DAS) to meet the needs of rapidly expanding wireless applications. Additionally, the adoption of wireless applications is driving up the demand for spectrum, making cognitive radio (CR) an attractive technology to increase spectrum utilisation. A promising method of allocating frequency bands for CR is through spectrum auctions. To improve system performance, a few previous works examined combining DAS and CR, however they never looked into the spectrum auction in these systems [1,2].

In order to increase spectrum usage, F. Zhao et AL study,.'s "A spectrum auction algorithm for cognitive distributed antenna systems," investigates the spectrum auction problem. As the future Internet architecture, information centric networking(ICN) can also offer superior architectural support for mobile ad hoc networking. Therefore, information-centric mobile ad hoc networks (ICMANET), a new cross-cutting research area, is gradually forming. The paper, "Information-centric mobile ad hoc networks and content routing: A survey," by X. Liu et al introduces the current advances in ICN and analyze its development trends, and interprets the formation of ICMANET and sketch an overview of it [3,4].

### Satellite performance in various levels

Fractional frequency reuse (FFR), whose main goal is to strike a balance between increasing frequency utilisation efficiency and suppressing ICI, can not only coordinate intercell interference (ICI), but also enhance the communication quality of cell-edge users. The paper "Group buying spectrum auction technique for fractional frequency reuse cognitive cellular systems" discusses how conventional spectrum auctions ignore inter- and intra-cell interference and how wireless spectrum has become a limited resource in cognitive radio networks. Full-duplex relaying (FDR), which allows simultaneous transmission and reception within the same frequency range, has garnered a lot of interest since it significantly improves spectral efficiency. The performance of multi-hop decode-and-forward (DF) FDR systems, in which the relay nodes suffer from both self-interference and inter-relay interference, is examined in the work "Performance analysis of multi-hop full-duplex decode-and-forward relaying" by (IRI).

Satellite correspondence networks made out of different satellites with various levels can be viewed as agreeable essential clients in the space fragment. Agreeable range detecting as the key procedures of mental radio has been focused closer on the utilization of satellite correspondences. To completely investigate the possibilities of the versatile satellite correspondence networks based on the idea of satellite bunch in supporting of heterogeneous applications, a trust-weighted helpful range detecting to essential satellite framework is proposed in the paper, "Joint agreeable range detecting and range an amazing open door for satellite group correspondence organizations. "Local connectivity for heterogeneous overlaid wireless networks," studies the local connectivity, i.e., the node isolation probability of two coexisting wireless ad hoc networks (a primary network vs. a secondary network), where two users can communicate if the signal-to-interference ratio (SIR) at the receiver is larger than a threshold. Assuming the primary users are distributed as a Poisson point process (PPP) and the secondary users are distributed as a Matern cluster process (MCP), it investigates the impact of network parameters on the node isolation probability [5].

## Conclusion

The increment of savvy cell phone (SMD) brings about dangerous

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development in versatile rush hour gridlock and incites portable clients to use increasingly more figure serious applications through SMD. System of consistent versatile application execution and systems administration in view of edge figuring assets is ended up being one of the promising patterns in future versatile Web. Zeroing in on systems administration of specially appointed cloudlet, the paper, "PMC2O: Versatile cloudlet systems administration and execution examination in view of calculation offloading," proposes a dynamic cloudlet self-systems administration system in light of part offloading.

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## Conflict of Interest

The authors declare that there was no conflict of interest in the present study.

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