Abstract

With the advent of mobile technologies, communication is no longer a stationary element. In addition, with gradual sophistication of the technologies, the need for communication is no longer confined to voice only. Now, mobile communication encompasses voice, video and live streaming while the host is on the move. Various researches are going on to satisfy these needs to appreciable extent which can be taken farther to a satisfactory extent. Recently, 4G has been launched to address contemporary shortcomings of the mobile technology. To take the renovations steps ahead, the next phase of development will be commencing soon which is unofficially named as 5G. In this paper, we address some of the shortcomings still persisting in the current stage of networking and focus on some design considerations of 5G including High Altitude Platform, Femtocells, and Cognitive Radio.

References


Addison-Wesley/Longman, Reading, MA.
- CISCO (2012b). Cisco Visual Networking Index: Global Mobile Data Traffic Forecast...

1, Pages 61-62.
- Re, E. D., Pucci, R., Ronga, L. S. (2011). Energy efficient resource allocation game for
cognitive radio. October 2011 CogART &apos;11: Proceedings of the 4th International
Conference on Cognitive Radio and Advanced Spectrum Management. Publisher: ACM.
Conference on Cognitive Radio and Advanced Spectrum Management. Publisher: ACM.
application? October 2011 CogART &apos;11: Proceedings of the 4th International Conference
on Cognitive Radio and Advanced Spectrum Management. Publisher: ACM.
information, and network optimality: a topology control example. Proc. ICCCN&apos;09, San
Francisco, CA, USA, August 2009.
design of a cognitive radio prototyping platform. October 2011 CogART &apos;11: Proceedings
of the 4th International Conference on Cognitive Radio and Advanced Spectrum Management.
cognitive radios: An information theoretic perspective. Proc. of the IEEE, vol. 97, no. 5, Pages
- Ertu,rul, O., Buzluca, F. (2011). An efficient broadcasting scheme for cognitive radio
Conference on Cognitive Radio and Advanced Spectrum Management. Publisher: ACM.
1632-1634.
Issue 7, pages 469-471, 3p, 2 Graphs.
- Karapantazis, S., Pavlidou, F.-N., (2005). The role of high altitude platforms in beyond
and Selection in the Future Wireless Communication. June 2011, Mobile Networks and
Applications, Volume 16 Issue 3.
optimization algorithms using genetic programming. In Personal, Indoor and Mobile Radio
- Bao, X., Narayan, T., Sani, A. A., Richter, W., Choudhury, R. R., Zhong, L.,

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