Abstract

The big challenge at any cellular system is to keep providing Coverage and quality of service. Femto-cells are used to overcome the dead zones problem and an efficient way to improve coverage. By using Cognitive Radio, spectral efficiency can be provided too. In this paper, a Femto-cell integrated over LTE Advanced (LTE-A) macro-cellular system under the effect of the distance between the macro user and the Femto-cell (R) on Signal-interference noise ratio (SINR), Path-Loss (PL) and Throughput (THR) with changing in bandwidth and the modulation technique are introduced which is not clarified until now. Moreover, studying of how it is important for the macro user to make handover at the Femto-cell to keep in coverage area.

References

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Keywords