Using SciLab Improvement of Channel Capacity with Cell Splitting

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Abstract: *Cell splitting in mobile communication is the process in which the bigger cells split up into smaller ones. In mobile communication we use cell splitting so that we can expand the capacity of the system. Cell splitting also helps to increase the number of channels. Whenever there is a bigger network for any area, the number of mobile users also increases.This system can be implemented using MATLAB software. But MATLAB software requires licence. In this paper, cell splitting is implemented using Scilab software. Scilab is an open-source software and therefore cell splitting implemented using Scilab.*

Keywords: *Scilab, Frequency Reuse, Cell Splitting, Cell*

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