Now-a-days LEO satellites have an important role in global communication system. They have some advantages like low power requirement and low end-to-end delay, more efficient frequency spectrum utilization between satellites and spot beams over GEO and MEO. So in future they can be used as a replacement of modern terrestrial wireless networks. But the handover occurrence is more due to the speed of the LEOs. Different protocol has been proposed for a successful handover among which BMBHO is more efficient. But it had a problem during the selection of the mobile node during handover. Here we have proposed an algorithm so that the connection can be established easily with the appropriate satellite. By simulation we have shown that it will reduce the handoff latency as well as efficiency of the
communication will be maximum and force call termination probability or call blocking probability will be minimum.

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**Index Terms**

Computer Science

**Keywords**

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