

## ABSTRACT

The work contains 88 pages, 34 figures, 12 tables, 1 chart. 34 sources have been used.

**Purpose of the work:** is to study the algorithms of continuous transmission in mobile communication systems 5G, the principle of work of the handover to solve the problem of mobility.

**Object of research:** is the standard of mobile, wireless data transmission network of the next generation 5G.

**Subject of the study:** is the Handoff / Handover technology.

The work considers the features of building a wireless network of fifth generation 5G, as well as the process of forwarding data between base stations - handover. This technology allows subscribers to uninterrupted use mobile communication services.

**Keywords:** Handoff, Handover, Soft Handover, Softer Handover, BS, MSC, RSS, RSS-T, RSS-TH, QoS, MQL.