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## Bachelor Thesis

Theoretical / Practical

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# Computer aided Multi-User Teleinteraction and Telecooperation

*Keywords: Human-Machine-Interaction, Multi-User system, Teleinteraction, Telecooperation*

### General conditions:

Duration: 3-4 Months

Prerequisites:

- Able to work independently and in time
- Show personal initiative and skills for self-organization
- Show capability of intensive / extensive reading, and summarizing

### Content:

Nowadays, there are numerous complex tasks that can not be solved by a single human but can be easily solved with cooperation by multiple humans. However, a successful implementation of the so-called telecooperation relies on reliable and fault-free information communications and data transmissions. And how can a telecooperation be carried out with computer aided systems in asynchronous cases (which means, teleinteraction with non-presences)?



The goal of this thesis is to make an intensive /extensive literature research on the concepts of performing collaborative work by multi-users in both synchronous and asynchronous situations. The main tasks include

- Literature research regarding
  - Concepts of telecooperation and teleinteraction (TAT),
  - Approaches of computer aided TAT, and
  - Realization of TAT in synchronous and asynchronous situations.
- Comparing the TAT concepts
- Applying at least one approach on a given daily working example

The detailed research results have to be documented (in LaTeX) and the whole work has to be demonstrated within an oral presentation.

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