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Hiwi

Signal Processing Methods - Tutor

Motivation

Signal Processing Methods play a fundamental role in analyzing signals and extracting meaningful features. They allow scientists and engineers to perform high-precision analyses in both the time and frequency domains, leading to more accurate results and a deeper understanding of signal variations.

Assisting in teaching this subject offers students the opportunity to strengthen their grasp of signal behavior and the mathematical principles behind these methods. At the same time, it encourages tutors to share knowledge, engage in critical discussions, and develop communication skills through collaborative learning and open exchange of ideas.

Key Concept

Tutors will be responsible for reviewing lecture slides and exercises, identifying and correcting any typos or mistakes before and after the lectures. They will also have the opportunity to strengthen their programming skills by solving selected problems using Python or MATLAB, and by discussing their solutions with students during class.

Additionally, tutors are encouraged to suggest new problems and solutions that can be integrated into the course content, thereby contributing to continuous improvement of the teaching material.

Prior knowlege

- Completed the Signal Processing Methods (SPM) course or its previous version (MSV)
- Basic knowledge in LaTex and Git
- Basic knowledge in programming (Python - MATLAB)

Teaching area

- Signal processing

Studiengang

- [x] Elektro- und Informationstechnik
- [ ] Informatik
- [x] Mechatrinik
- [x] Medizintechnik

Alignment

- [x] Method development
- [x] Teaching
- [x] Problem solving
- [x] Programming

Start

Immediately

Links

Research Assistant

Contact person

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