

Development of a model order reduction library for an Android-based FEM app

Your Tasks:

The goal is to extend an Android-based FEM solver with various methods from the field of model order reduction for frequency response analysis.

- Optimize the existing FEM framework
- Implement different MOR techniques
- Represent the frequency response graphically
- Validate the results using a commercial FEM

Programming language: Java

You will learn:

- Object oriented programming with Java and the Android API
- Design patterns
- Model order reduction techniques
- Numerical linear algebra algorithms

Project Characteristics

Modeling: ★☆☆☆☆
Mathematics: ★★★★★
Programming: ★★★★★
Science: ★★★★★

