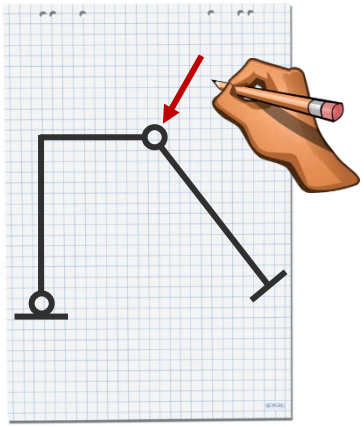
Development of a recognition and analysis application for 2D structural systems

Project Characteristics

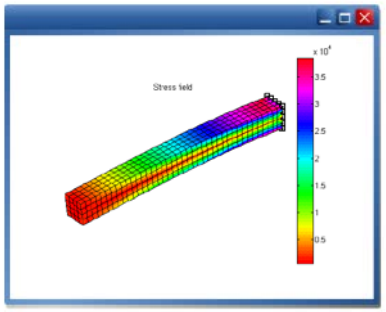
Mathematics: ★★☆☆☆
Programming: ★★★★★
Effort: ★★★★★

- Current situation:



draw a structural system

Model it on the computer



perform a structural analysis

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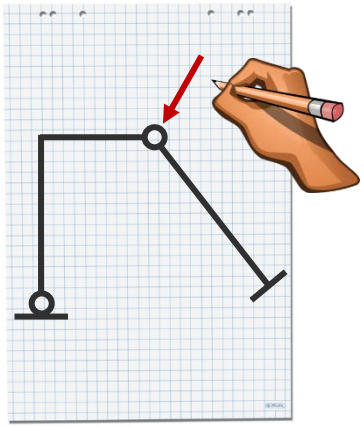
- Idea → Bypass the modeling part



draw a structural system

Take a photo (with a mobile device)

perform a structural analysis

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- Your task:
  Create an application to…
  - take a photo of a drawn 2D structural system
  - detect and model the system
  - perform a static analysis

- Software used:
  - Qt IDE
  - OpenGL ES
  - OpenCV

- Programming language: C++

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