

Scene2Compliance – Automated Compliance Verification from BIM Generated Views

Task

To develop a framework that performs compliance checking with a scene from BIM and retrieved relevant regulations

- Perform a literature review to identify state-of-the-art methods and baseline approaches that address similar tasks
- Select and collect target datasets for specific design regulations.
- Creating a dataset that consists of scene/regulation/compliance results.
- Implement algorithms that perform the similar task described in Figure 1 but replace user input modality.

Project Characteristics

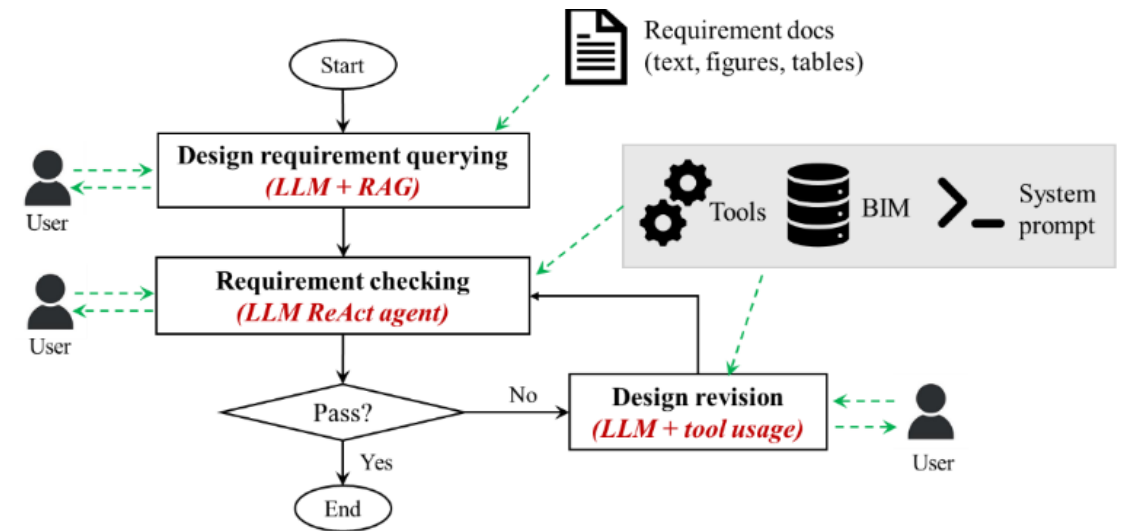
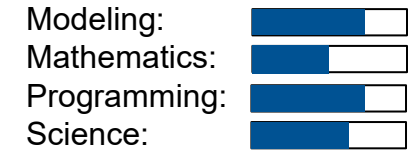


Figure 1. A similar workflow [1] but our input should be scene from BIM

[1] Ying, H., and R. Sacks. 2024. "From Automatic to Autonomous: A Large Language Model- driven Approach for Generic Building Compliance Checking.", EasyChair Preprint.