

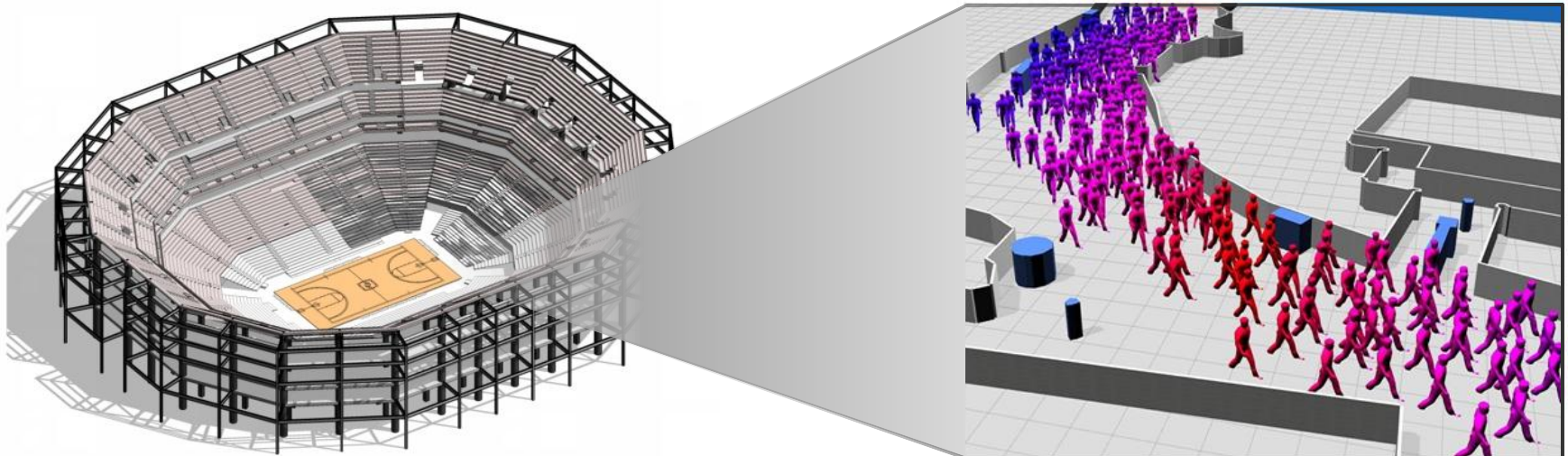
The Revit Crowd Simulation (also available as a Scrum project)

Project Characteristics

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

Pedestrian simulations application areas

- Calculation of evacuation times
- Identification of bottleneck
- Support for security staff in handling major events



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Extend Revit to a scenario manager

- Import of GIS formats
- Definition scenario attributes
- Interface to simulation application

Your Task

- Define mappings between GIS & BIM
- Add properties to components
- Integrate these properties to the Revit file format
- Implement an exporter to a given .xml format

Programming language: C#

