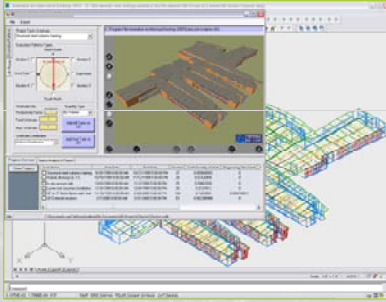


iConViz[®]: Virtual Reality 4D Construction Planning and Visualization Tool

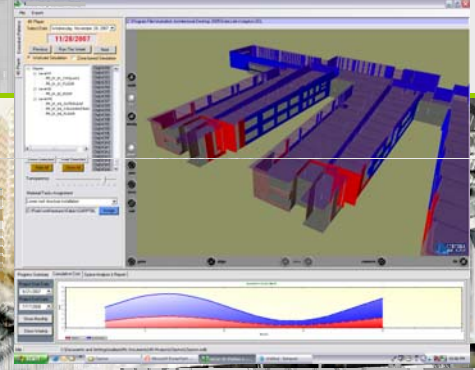
Introduction: The iConViz[®] tool embeds a computational model and method to dynamically visualize the construction progress status between construction activities. The aim is to predict the dynamic behaviour of the on-site construction tasks execution and visualise the construction processes in 4D CAD/VR. The work innovates the traditional visual space planning techniques, project scheduling, and the requirement capture of data needed for developing realistic 4D space



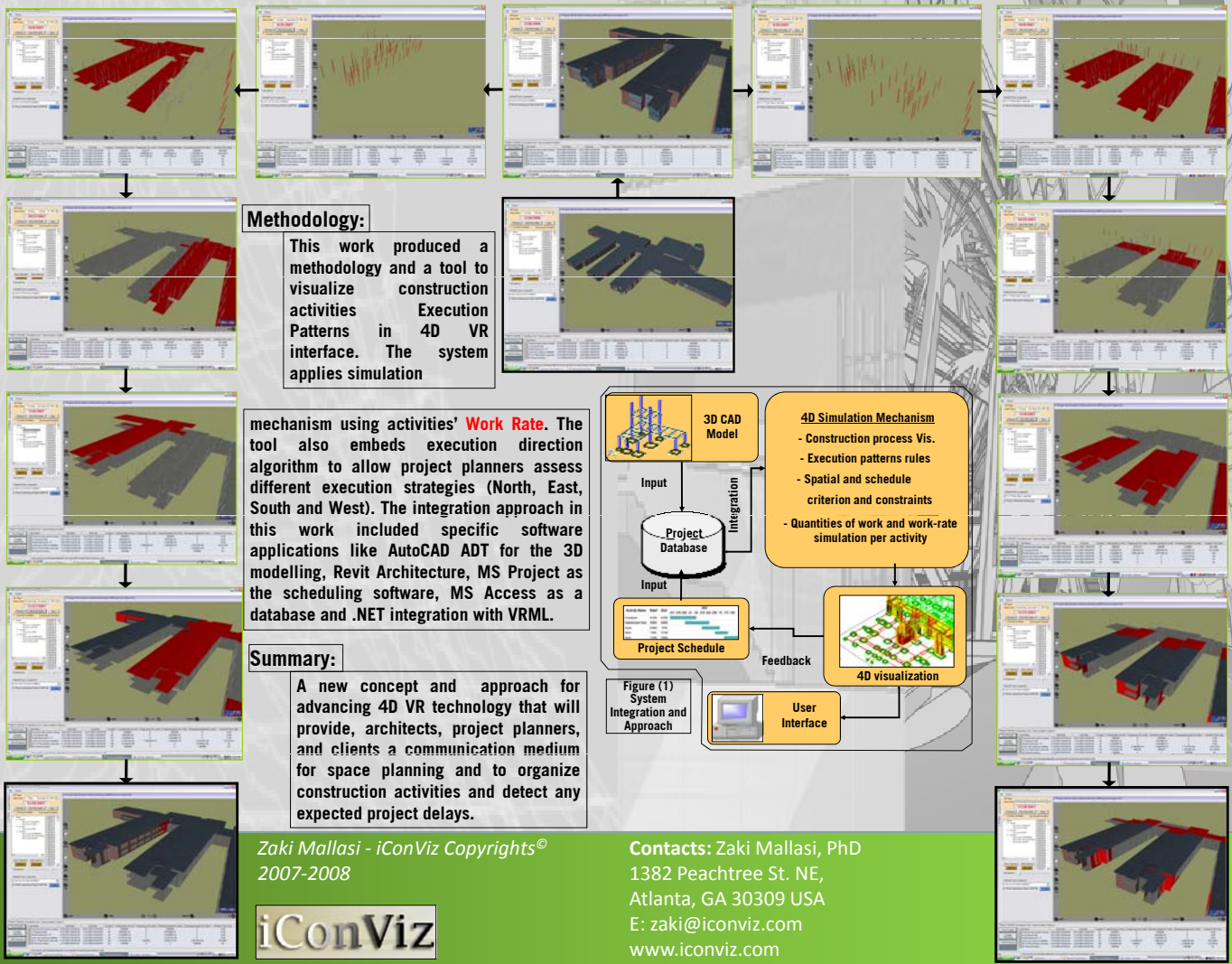
visualization strategies (different execution patterns) with significant benefits to project planners.

Objectives: The tool includes a dynamic visualization mechanism which enables site managers responsible for the planning of construction operations to rehearse different execution strategies for the project. It enhances the coordination of work on site. The main objectives are:

- ❑ To Rehearse construction schedules and 'what-if' scenarios through integrating product & process in 4D CAD/VR visualization technique.
- ❑ To allow architects to analyse site space configuration and minimise clashes between zoned activities mainly for campus planning.
- ❑ To simulate realistically the construction progress based on activity work-rate approach through the utilisation of interactive 4D CAD visualization.
- ❑ Enable architects, planners, and clients to open lines of communication and work together to create a successful plan and lead the project with better value.



'Test before you build, interact with the Virtual Building, analyse 'what-if' execution scenarios for visual space planning'



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