

Research project and supervisor team

Supervisory Team	A/Prof Rabee Reffat Dr. Linjun Xie
Short introduction & description of research project	<p>Synergistic Integration of Digital Twin, BIM, and GIS for Smart City Planning and Sustainable Development</p> <p>This research project aims to explore and analyse the potential of synergistically integrating digital twin, BIM, and GIS technologies in smart city planning and sustainable development. The objective is to investigate the benefits, challenges, and strategies involved in this integration, with a focus on enhancing data management, spatial analysis, and decision-making processes. The research seeks to understand the role of this integration in promoting sustainability, efficiency, and resilience in smart city development. The project will involve a comprehensive literature review, data collection through interviews and surveys, data analysis using qualitative and quantitative techniques, and the development of a conceptual framework. Real-world case studies will be analysed to validate the framework and identify best practices. The research will culminate in the formulation of recommendations and the dissemination of findings through research papers, workshops, and collaborations with industry partners and policymakers. Overall, this research aims to contribute to the knowledge base and provide practical insights for stakeholders involved in smart city planning and sustainable development.</p>
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