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(57) Abstract :

The invention discloses an augmented reality platform (100) for architectural visualization, integrating CAD/BIM interface (101), AR rendering engine (102), spatial tracking unit (103), user interaction system (104), AI optimization engine (105), and collaborative cloud server (106). The system enables immersive, real-time, context-aware visualization of architectural models, supporting interactive manipulation, AI-driven performance optimization, and collaborative multi-user sessions. By aligning digital models with physical environments, the invention enhances decision-making, reduces errors, and accelerates architectural project approvals.

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