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**STRUCTURAL ENGINEERING / EARTHQUAKE ENGINEERING**

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**INTEGRATED EARTHQUAKE SIMULATOR FOR SEISMIC RESPONSE ANALYSIS OF STRUCTURE SET IN CITY**

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To support local government officials who are in charge of enforcing earthquake disaster mitigation, this paper proposes application of an integrated earthquake simulator to the seismic response analysis of whole structures located in a city. The simulator is aimed at combining various simulation programs which are used for the purpose of design, and visualizing structure responses for a given earthquake scenario. Integration takes advantage of a computer agent which plays a role of an interpreter between the system and each simulation program. The possibility of such integration is discussed by developing a prototype of the integrated earthquake simulator.

**Key Words:** integrated earthquake simulation, object-oriented program, structure response analysis, wrapper, artificial intelligence

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