

DESCRIPTION OF BUILDING RECONSTRUCTION PROCESS OF CHI-CHI AREA USING IMAGE ARCHIVES AFTER THE 1999 CHI-CHI EARTHQUAKE, TAIWAN

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SUMMARY

Purposes of research with regards to urban reconstruction process of damaged area due to natural hazards should be 1) to suggest appropriate and suitable policies or strategies for reconstruction to anticipated damaged areas, 2) to establish methodology to record the process as historical archives. This paper demonstrates necessity of general measures which evaluate reconstruction process of damaged areas after disastrous events, and reports trials to describe the process of Chi-Chi area damaged due to the 1999 Chi-Chi Earthquake, Taiwan. One of the trials is making spatial reconstruction model for the public space in the objective area based on the construction period and building damage rank, another is construction of Image Archives database that aims at description of the process for private buildings.

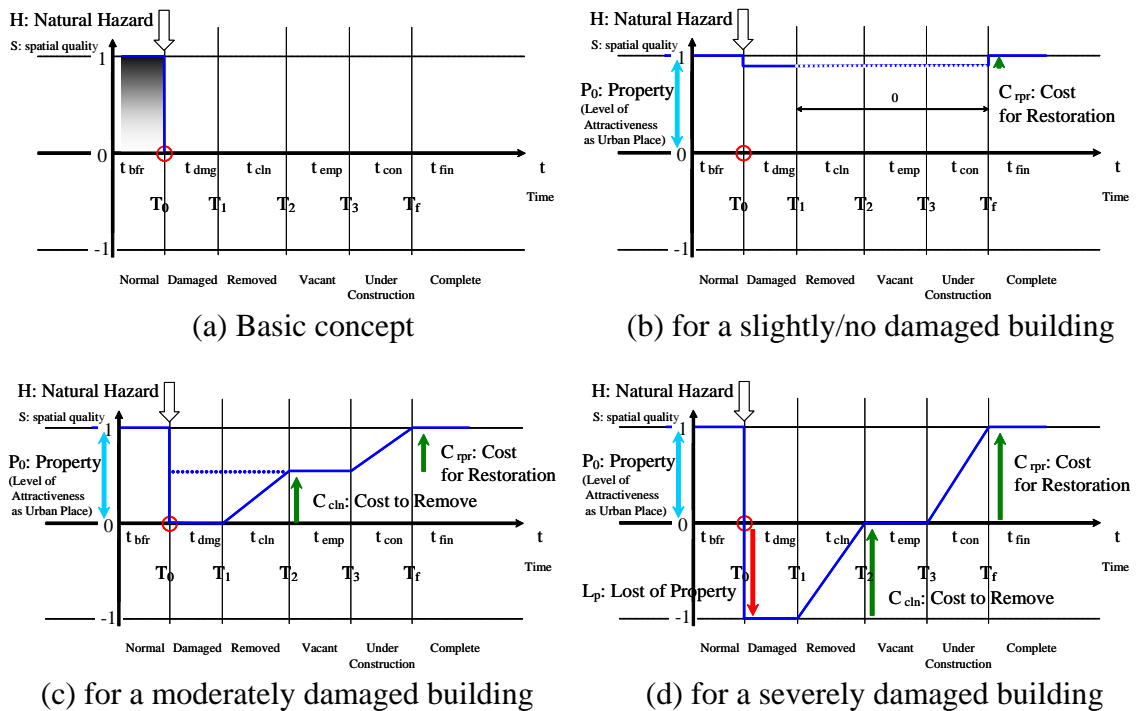


Figure 1. Spatial Reconstruction Model

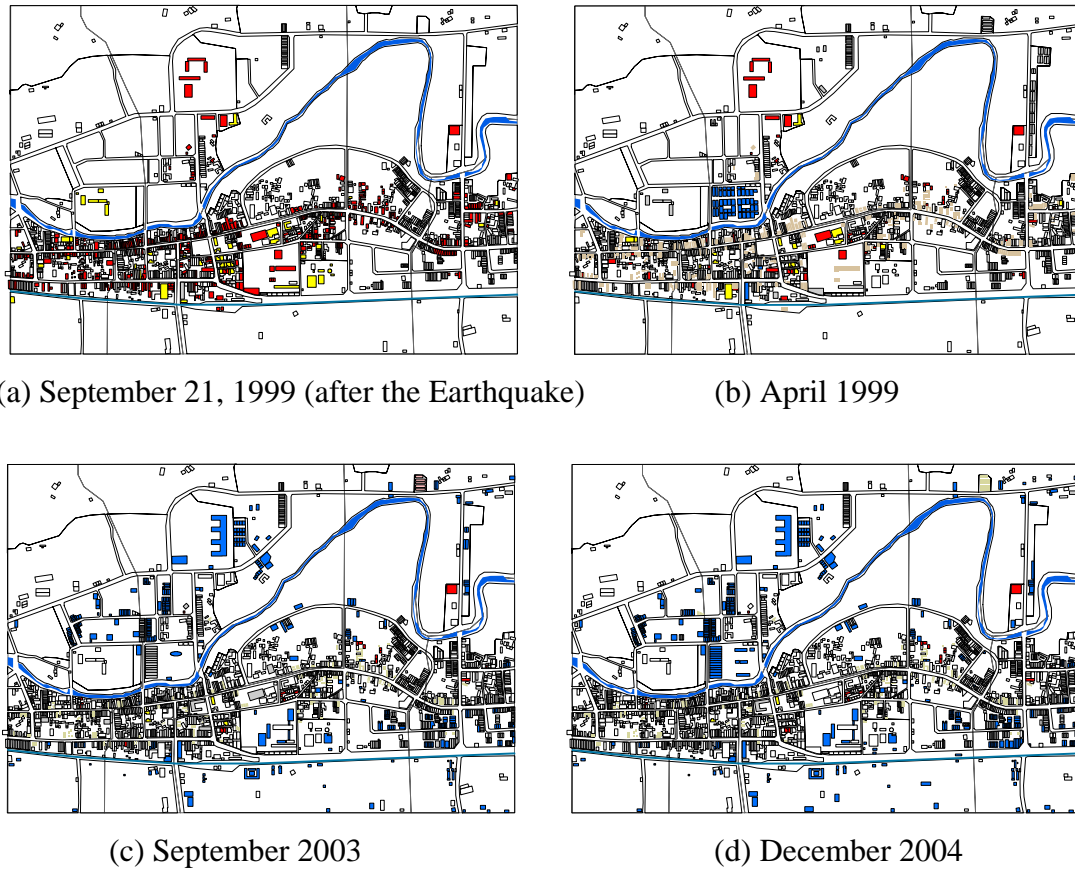


Figure 2. Changing of Chi-Chi Town after the earthquake

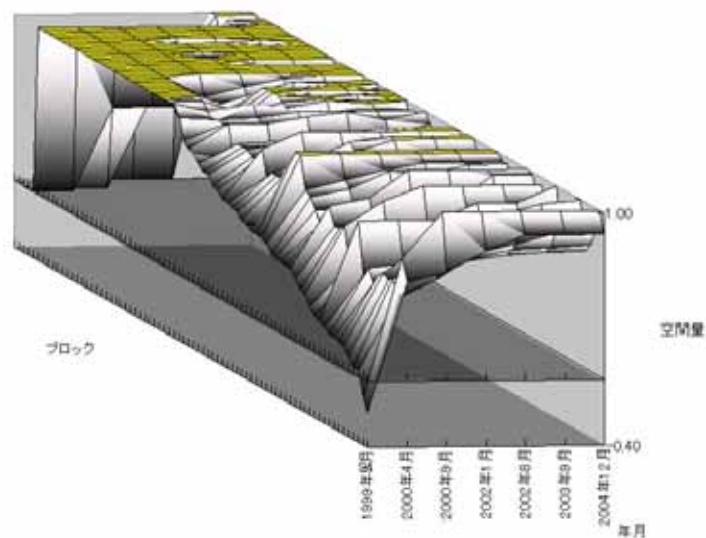


Figure 3. Spatial Reconstruction Model (3D View) for Chi-Chi Town