

## 協力式網路工作環境在結構設計之應用

The cooperative network workspaces compose a design framework making use of network computing technology to integrate a knowledge-based blackboard system with algorithmic programs on the network. Knowledge-based expert systems are suitable for solving ill-structured problems. Algorithmic programs are best for solving large-scale numerical problems and can assist the analysis in the realm of mechanics. The problems in integrating knowledge-based expert systems with algorithmic programs are usually surrounded by the data exchange difficulties resulted from the differences of their platforms. Therefore, this research aims at developing a networked environment for blackboard-based cooperative structural design and defining a set of specifications for exchanging data between input /output files of the analytic programs and the blackboard.