# ParaVRML—A Toolkit for 3D Visualization based on VRML and PVM


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**ABSTRACT**

Parallel visualization is an emerging technologythat uses computer graphics technique to visualizedata that is computed from distributed parallelcomputers. One of the main difficulties of parallelvisualization is the developers often have to masterthe complexity of 3D graphics programming and parallel computing techniques into one solution. Current development of Java Internet connection and the open standard of VRML opens an opportunity for integrating VRML and parallel computing. The integration enables developers ofparallel visualization to easy their programming efforts. In addition, Scientific Visualization can alsobe done in WWW environment by this integration. For this purpose, we develop a toolkit—ParaVRML,which is based on VRML and PVM. Ourimplementation supports a simple parallel scriptlanguage, with user friendly WWW interface. Ourempirical results have shown that this integrationis an feasible approach to achieve the goals.



Keywords : 平行視算 ; 科學視算 ; VRML ; 描述語言 ; 平行處理


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