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# Programming Paradigms for Scientific Problem Solving Environments

Dennis Gannon, Marcus Christie, Suresh Marru, Satoshi Shirasuna,  
Aleksander Sominiski

Department of Computer Science, School of Informatics,  
Indiana University,  
Bloomington, IN 47401  
gannon@s.indiana.edu

**Summary.** Scientific problem solving environments (PSEs) are software platforms that allow a community of scientific users the ability to easily solve computational problems within a specific domain. They are designed to hide the details of general purpose programming by allowing the problem to be expressed, as much as possible, in the scientific language of the discipline. In many areas of science, the nature of computational problems has evolved from simple desktop calculations to complex, multidisciplinary activities that require the monitoring and analysis of remote data streams, database and web search and large ensembles of supercomputer-hosted simulations. In this paper we will look at the class of PSE that have evolved for these "Grid based" systems and we will consider the associated programming models they support. It will be argued that a hybrid of three standard models provides the right programming support to handle the majority of the applications of these PSEs.

## 1 Introduction

Domain specific problem solving environments have a long history in computing and there are several examples of widely used tools that are also commercial successes. For example Mathematica [1] provides a platform for doing symbolic mathematics and related visualization tasks using a programming language that is designed with mathematical primitives as a basic component of the type system. Another example is Matlab [2], which is widely used in the scientific community to study problems requiring matrix manipulations or other linear algebra operations. In the area of computer graphics PSE like AVS and Explorer [3] pioneered the use of programming by component composition to build visualization pipelines. This same approach is used in SciRun [4] and many of the other systems described below.

In recent years, we have seen a shift in the nature of the problems scientists are trying to solve and this is changing the way we think about the design of PSEs. Specifically, many contemporary computational science applications require the integration of resources that go beyond the desktop. Remote data sources including on-line instruments and databases and high-end supercomputing platforms are among

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# Programming Environments For High Level Scientific Problem Solving

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