

The Next Generation Software Workshop

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Abstract

This workshop provides a forum for an overview, project presentations, and discussion of the research fostered and funded by the NSF Next Generation Software (NGS) Program, and the Advanced Execution Systems (AES) and the Systems Modeling and Analysis (SMA) components of the follow-up Computer Systems Research (CSR) Program. The present Workshop is part of the Next Generation Software workshop series that started in 2001 and has been conducted yearly in conjunction with IPDPS. The topics addressed in the workshop are on research in systems' software technology in the scope of NGS and of the AES and the SMA components, namely: systems modeling, analysis and performance engineering methods, programming environments, enhanced compiler capabilities, tools for the development, dynamic runtime support and dynamic composition of complex applications executing on heterogeneous, parallel and distributed computing platform assemblies, such as computational grids, encompassing high-end platforms, clusters, embedded and sensor systems, and special purpose processing systems.