The Ohio State University

Computer Science and Engineering
Software Engineering Group

Themes (Regular Faculty)

• Product focus (as opposed to process)
• Establishing behavioral properties by reasoning about program texts
  • Formal methods: specification and verification
  • Static analysis
• Component-based software
Nasko Rountev

- Static and dynamic program analyses, especially for object-oriented systems and languages
- Modular static and dynamic analyses of component-based software

Paul Sivilotti

- Distributed Components Research Group
- High-confidence distributed software
- Exploiting modularity in reasoning about distributed software behavior
Neelam Soundarajan

- Developing techniques for reasoning about and testing the behavior of object-oriented and distributed systems
- Specification and modular reasoning about frameworks and design patterns
- ABET accreditation for computing programs

Bruce Weide

- RSRG: Reusable Software Research Group
- Software component engineering, including formal specification and design
- Modular verification of functionality and performance correctness
Stu Zweben
- RSRG: Reusable Software Research Group
- Software testing, especially for component-based software
- IT workforce issues

Themes (Other Faculty)
- Process focus (as opposed to product)
- Adaptive complex enterprises (see CACM, May 2005)
Jay Ramanathan

- CAST: Collaborative for Applied Software Technology
- Adaptive complex enterprises and IT architecture innovation
- Organizational transformation

Rajiv Ramnath

- CAST: Collaborative for Applied Software Technology
- Software engineering methodologies for the adaptive complex enterprise
- Digital government applications