MESSAGE FROM THE WORKSHOP CHAIRS

WORKSHOP ON ANALYSIS, SLICING, AND TRANSFORMATION

Welcome to AST 2001 - the workshop on Analysis, Slicing, and Transformation affiliated with WCRE. The workshop studies source code as an artifact. Source code comes in many forms: programs, database schemas, table descriptions, GUI descriptions, configuration files, resource scripts, control and test scripts. XML Documents, in particular the document type definitions and schemas, can also be considered as a form of source code. The general theme of analysis, slicing, and transformation covers several important techniques and concepts relevant for software re- and reverse engineering, e.g., grammar and parsing issues, data- and control-flow analysis, clone detection, refactoring, and source-to-source translation.

The AST program committee selected 6 out of 11 submissions for the presentation at the workshop. The selected papers cover the following topics: visualization of program dependence graphs, a slicing approach to achieve thinner slices by the employment of transformations, a grammar-aware approach to handle preprocessing aspects, sophisticated parsing technology, a semantic analysis to find similar code, and an abstract domain for static analysis concerned with range invariants. The workshop is complemented by a panel on “Transformation technology for software renovation”. With this workshop we hope to attract members of the growing community of persons now dealing with the analysis and transformation of source code in whatever form it may come in.

Ralf Lämmel  Harry Sneed

WORKSHOP ON DATA REVERSE ENGINEERING

The reverse engineering, integration, and migration of information systems and data assets is a key problem of IT industry today. A recent survey with participants of the 3rd Intl. Workshop on Net-Centric Computing (NCC’01 held in Toronto, May 2001) has confirmed that many industrial migration projects face significant difficulties when it comes to reengineering legacy data assets. In many ways data reverse engineering (DRE) requires different methodology and techniques than, for example, code or architecture reverse engineering. DRE is an emerging research discipline mostly driven by industrial demand. Still, it has not yet gained as much attention from academia as other areas in the software reverse engineering realm. It is the mandate of the Workshop on Data Reverse Engineering to form and expand a community of researchers and practitioners working on DRE related problems.

We wish to thank all the authors who submitted papers for the Data Reverse Engineering Workshop. We who are data reverse engineers know that DRE is as important today for businesses and organizations as it ever has been. What is needed in our discipline is to educate both the researchers and users as to the major benefits that DRE can offer. We hope that the topics being addressed by the accepted papers both instruct the attendees and generate interest in DRE.

Kathi Hogshead Davis  Jens Jahnke
Welcome to the Workshop on Decompilation Techniques. Over the last years an increased interest in this area has been seen throughout the world in order to better understand how executable programs work. In the past, much work has been done in the areas of recovering control structure and high-level statement information. Some of the harder problems to solve include that of recovery of high-level data types for the program’s data.

The program includes four excellent papers in the areas of type recovery, control structuring, and application of decompilation techniques to the computer security area. These papers form the basis for moving forward in this field. We hope you enjoy the discussions.

Cristina Cifuentes            Mike Van Emmerik