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with Inductive Inference Techniques -- Experience Reports -- Mining API Popularity -- Automatic Discovery of Unspecified Behaviors in Automotive Control Software -- Fast Abstracts -- An Empirical Evaluation to Study Benefits of Visual versus Textual Test Coverage Information -- A Multi-criteria Decision Making Framework for Real Time Model-Based Testing -- Improved Testing through Refactoring: Experience from the ProTest Project -- Towards Run-Time Monitoring of Web Services Conformance to Business-Level Agreements -- A New Approach for Software Testability -- DOM Transactions for Testing JavaScript -- The GZoltar Project: A Graphical Debugger Interface.

Sommario/riassunto

A Message from the TAIC PART 2010 General Chair TAIC PART is a unique event that strives to combine aspects of a conference, a workshop and a retreat. Its purpose is to bring together industrialists and academics in an environment that promotes fundamental collaboration on problems in software testing. Among the wide range of topics in computer science and software engineering, software testing is an ideal candidate for academic and industrial collaboration because advances in research can have such wide-ranging and far-reaching implications for industry. Conversely, the advances in computing and communications technology and the growth of the associated software engineering activity are producing new research challenges at an increasing rate. The problems that arise in software testing are related to the problems that arise in many other areas of computing. As such, testing research combines a wide range of elements encompassing the theoretical work of program analysis and formal methods and the associated representations such as finite-state machines and dependence graphs. The inherent complexity of software testing has led to the involvement of heuristic methods. Software testing is also a human activity and has thus seen the involvement of psychology, sociology and even philosophy. This astonishing breadth and depth have made the problems of software testing appealing to academics for several decades.
