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one of the most intricate and least understood areas in software engineering [19]. Testing, an important research area within computer science is likely to become even more important in the future. This retrospective on a fifty-year of software testing technique research examines the maturation of the

Beginners Guide To Software Testing Page 8 What makes a good tester? As software engineering is now being considered as a technical engineering profession, it is important that the software test engineer’s posses certain traits with a relentless attitude to make them stand out. Here are a few. • Know the technology.

Software Engineering Tutorial 2 (1) The application of a systematic, disciplined, quantifiable approach to the development, operation, and maintenance of software; that is, the application of engineering to software. (2) The study of approaches as in the above statement. Fritz Bauer, a German computer scientist, defines software engineering as:

IEEE TRANSACTIONS ON SOFTWARE ENGINEERING 1 An Analysis and Survey of the Development of Mutation Testing Yue Jia Student Member, IEEE, and Mark Harman Member, IEEE Abstract—Mutation Testing is a fault–based software testing technique that has been widely studied for over three decades.

A SOFTWARE ARCHITECTURE-BASED TESTING TECHNIQUE Zhenyi Jin, Ph.D. George Mason University, Fall 2000 Dissertation Director: Dr. A. Jefferson Offutt This dissertation defines a formal technique to test software systems at the architectural level, particularly for software systems developed using software Architecture Description Languages (ADL).

of software testing has mainly focussed on effectiveness: The most effective testing technique reveals a maximal number of errors and inspires a maximum degree of confidence in the correctness of a program. Only now are we starting to investigate its efficiency: The most efficient testing technique i) generates a suf?