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On-The-Fly Detection of Access Anomalies (Classic Reprint) (Hardback)

By Edith Schonberg

Forgotten Books, 2018. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from On-the-Fly Detection of Access Anomalies A variety of approaches have been explored for detecting access anomalies. One approach is-static analysis [app, Car, Tay], the goal of which is to detect all potential access anomalies prior to execution. In [app] and [tay], sections of code which are potentially con current are identified; shared variables read and written in these sections are potential anomalies. To reduce the set of potential anomalies found, further static analysis is required, such as subscript range and alias analysis, as well as data dependence analysis [bur, Car]. At best, static analysis can only indicate a conservative superset of potential anomalies. Faced with too many false reports, it is easy for a programmer to disregard the advice of an overly conservative static tool. Dynamic access anomaly detection, on the other hand, is a complementary approach that can guarantee that there are no anomalies in any particular execution instance of a program. Dynamic detection tests whether a potential anomaly revealed by static methods is a real ano maly, while static analysis is useful to reduce the number of variables that have...

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