

1. Record Nr.	UNINA9910688568603321
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Titolo	Verification-based software-fault detection
Pubbl/distr/stampa	KIT Scientific Publishing, 2011
ISBN	1000023002
Descrizione fisica	1 online resource (XVII, 264 p. p.)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Software is used in many safety- and security-critical systems. Software development is, however, an error-prone task. In this work new techniques for the detection of software faults (or software ""bugs"") are described which are based on a formal deductive verification technology. The described techniques take advantage of information obtained during verification and combine verification technology with deductive fault detection and test generation in a very unified way.