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Titolo	Industrial used of formal method [[electronic resource] ] : formal verification / / edited by Jean-Louis Boulanger
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Descrizione fisica	1 online resource (307 p.)
Collana	ISTE
Altri autori (Persone)	BoulangerJean-Louis
Disciplina	005.101 620.0042
Soggetti	Systems engineering - Data processing Computer simulation Formal methods (Computer science) Computer software - Verification Nondestructive testing Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Title; Copyright; Table of Contents; Introduction; Chapter 1. SPARK - A Language and Tool-Set for High-Integrity Software Development; 1.1. Introduction; 1.2. An overview of SPARK; 1.2.1. What is SPARK?; 1.3. The rationale behind SPARK; 1.3.1. Flow analysis; 1.3.2. Code proof; 1.3.3. Correctness by construction; 1.4. Industrial applications of SPARK; 1.4.1. SHOLIS; 1.4.2. Lockheed-Martin C-130J mission computer; 1.4.3. MULTOS CA; 1.4.4. Tokeneer; 1.4.5. Aircraft monitoring software; 1.4.6. iFACTS; 1.4.7. SPARK Skein; 1.5. Conclusion; 1.6. Bibliography Chapter 2. Model-Based Testing Automatic Generationof Test Cases Using the Markov Chain Model2.1. Preliminaries on the test process; 2.1.1. Findings; 2.1.2. Test optimization; 2.1.3. The statistical usage

test; 2.1.4. Generating test cases; 2.2. Modeling using Markov chains; 2.2.1. Origin; 2.2.2. Mathematical formalization; 2.2.3. Principles of generation; 2.2.4. Some indicators; 2.2.5. Calculating reliability; 2.3. The MaTeLo tool; 2.3.1. Engineering tests directed by models, model-based testing; 2.3.2. A chain of tools; 2.3.3. The usage model; 2.3.4. Configuration of test strategies; 2.3.5. Generating test campaigns; 2.3.6. Analysis of the results and indicators; 2.4. Examples of industrial applications; 2.4.1. AUDI; 2.4.2. Magneti marelli; 2.4.3. Other industrial applications; 2.4.4. Industrialization of the tests; 2.5. Conclusion; 2.6. Bibliography; Chapter 3. Safety Analysis of the Embedded Systems with the AltaRica Approach; 3.1. Introduction; 3.2. Safety analysis of embedded systems; 3.3. AltaRica language and tools; 3.3.1. The AltaRica language; 3.3.2. Modeling the propagation of failures with AltaRica; 3.3.3. Tools associated with AltaRica; 3.4. Examples of modeling and safety analysis; 3.4.1. Integrated modular avionics architecture; 3.4.2. System of electric power generation and distribution; 3.5. Comparison with other approaches; 3.5.1. Some precursors; 3.5.2. Tools for preexisting formal languages; 3.5.3. Languages for physical systems; 3.5.4. Injecting faults in nominal models; 3.6. Conclusion; 3.6.1. An approach to assess the safety of systems tested in aeronautics; 3.6.2. Clarification of the system architecture and horizontal exploration of the failure propagation: impacts on the scope of analyses; 3.6.3. Clarification of the nominal system characteristics: impacts on the generic definitions of the failure modes; 3.6.4. Compositional models of failure propagation: impacts on the overall safety process; 3.7. Special thanks; 3.8. Bibliography; Chapter 4. Polyspace®; 4.1. Overview; 4.2. Introduction to software quality and verification procedures; 4.3. Static analysis; 4.4. Dynamic tests; 4.5. Abstract interpretation; 4.6. Code verification; 4.7. Robustness verification or contextual verification; 4.7.1. Robustness verification; 4.7.2. Contextual verification; 4.8. Examples of Polyspace® results

## Sommario/riassunto

"At present the literature gives students and researchers of the very general books on the formal technics. The purpose of this book is to present in a single book, a return of experience on the used of the "formal technics" (such proof and model-checking) on industrial examples for the transportation domain. This book is based on the experience of people which are completely involved in the realization and the evaluation of safety critical system software based. The implication of the industrialists allows to raise the problems of confidentiality which could appear and so allow to supply new useful information (photos, plan of architecture, real example)"--

2. Record Nr.	UNINA9910495233403321
Autore	Laurence Patricia
Titolo	Elizabeth Bowen : A Literary Life // by Patricia Laurence
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Palgrave Macmillan, , 2021
ISBN	9783030713607 3030713601
Edizione	[2nd ed. 2021.]
Descrizione fisica	1 online resource (369 pages)
Collana	Literary Lives, , 2946-2045
Disciplina	823.912
Soggetti	Literature - History and criticism Literature, Modern - 20th century Fiction World War, 1939-1945 Literature - Philosophy Feminism and literature Literary History Twentieth-Century Literature Fiction Literature History of World War II and the Holocaust Feminist Literary Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Introduction -- Chapter 2: Change (1899-1925) -- Chapter 3: Terrains of the Imagination -- Chapter 4: Outsiders (1925-1935) -- Chapter 5: Love and Lovers -- Chapter 6: Snapshots of War (1939-1945) -- Chapter 7: Art and Intelligence (1940-1950) -- Chapter 8: The Roving Eye -- Chapter 9: Reading Backwards -- Chapter 10: Late Life Collage (1950-1959) -- Chapter 11: A Frightened Heart (1960-1973).
Sommario/riassunto	Elizabeth Bowen: A Literary Life reinvents Bowen as a public intellectual, propagandist, spy, cultural ambassador, journalist, and essayist as well as a writer of fiction. Patricia Laurence counters the popular image of Bowen as a mannered, reserved Anglo-Irish writer and presents her as

a bold, independent woman who took risks and made her own rules in life and writing. This biography distinguishes itself from others in the depth of research into the life experiences that fueled Bowen's writing: her espionage for the British Ministry of Information in neutral Ireland, 1940-1941, and the devoted circle of friends, lovers, intellectuals and writers whom she valued: Isaiah Berlin, William Plomer, Maurice Bowra, Stuart Hampshire, Charles Ritchie, Sean O'Faolain, Virginia Woolf, Rosamond Lehmann, and Eudora Welty, among others. The biography also demonstrates how her feelings of irresolution about national identity and gender roles were dispelled through her writing. Her vivid fiction, often about girls and women, is laced with irony about smooth social surfaces rent by disruptive emotion, the sadness of beleaguered adolescents, the occurrence of cultural dislocation, historical atmosphere, as well as undercurrents of violence in small events, and betrayal and disappointment in romance. Her strong visual imagination-so much a part of the texture of her writing-traces places, scenes, landscapes, and objects that subliminally reveal hidden aspects of her characters. Though her reputation faltered in the 1960s-1970s given her political and social conservatism, now, readers are discovering her passionate and poetic temperament and writing as well as the historical consciousness behind her worldly exterior and writing.

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