Badger / Rozier

# NASA Formal Methods

11th International Symposium, NFM 2019, Houston, TX, USA, May 7-9, 2019, Proceedings

This book constitutes the proceedings of the 11th International Symposium on NASA Formal Methods, NFM 2019, held in Houston, TX, USA, in May 2019.

The 20 full and 8 short papers presented in this volume were carefully reviewed and selected from 102 submissions. The papers focus on formal verification, including theorem proving, model checking, and static analysis; advances in automated theorem proving including SAT and SMT solving; use of formal methods in software and system testing; run-time verification; techniques and algorithms for scaling formal methods, such as abstraction and symbolic methods, compositional techniques, as well as parallel and/or distributed techniques; code generation from formally verified models; safety cases and system safety; formal approaches to fault tolerance; theoretical advances and empirical evaluations of formal methods techniques for safety-critical systems, including hybrid and embedded systems; formal methods in systems engineeringand model-based development; correct-by-design controller synthesis; formal assurance methods to handle adaptive systems.

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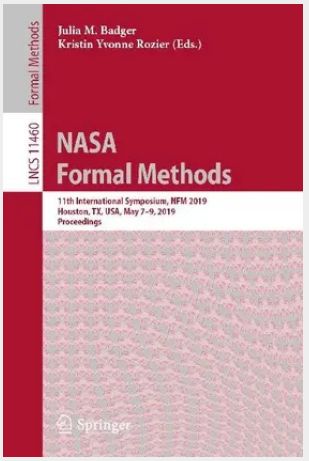


**70,61 €**
65,99 € (zzgl. MwSt.)

*Lieferfrist: bis zu 10 Tage*

**Artikelnummer:** 9783030206512
**Medium:** Buch
**ISBN:** 978-3-030-20651-2
**Verlag:** Palgrave Macmillan
**Erscheinungstermin:** 28.05.2019
**Sprache(n):** Englisch
**Auflage:** 1. Auflage 2019
**Serie:** Programming and Software Engineering
**Produktform:** Kartoniert
**Gewicht:** 628 g
**Seiten:** 392
**Format (B x H):** 155 x 235 mm