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Collana	Programming and Software Engineering, , 2945-9168 ; ; 12719
Disciplina	004.36
Soggetti	Software engineering Artificial intelligence Computer science - Mathematics Computer networks Computers, Special purpose Mathematical logic Software Engineering Artificial Intelligence Mathematics of Computing Computer Communication Networks Special Purpose and Application-Based Systems General Logic
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	On Bidirectional Runtime Enforcement -- A Multi-Agent Model for Polarization under Confirmation Bias in Social Networks -- A Formalisation of SysML State Machines in mCRL2 -- How Adaptive and Reliable is your Program -- Branching Place Bisimilarity: A Decidable Behavioral Equivalence for Finite Petri Nets with Silent Moves -- Prioritise the Best Variation -- Introduction and Preservation Analysis of Refinement Relations in CCSL -- A Case Study on Parametric

Verification of Failure Detectors -- with Leftovers: a Mechanisation in Agda -- Supervisory Synthesis of Configurable Behavioural Contracts with Modalities -- Off-the-Shelf Automated Analysis of Liveness
Properties for Just Paths -- Towards a Spatial Model Checker on GPU -- Formal verification of HotStuff -- Better Late than Never or: Verifying Asynchronous Components at Runtime -- Designing Distributed Software in mCRL2.

Sommario/riassunto

This book constitutes the refereed proceedings of the 41st IFIP WG 6.1 International Conference on Formal Techniques for Distributed Objects, Components, and Systems, FORTE 2021, held in Valletta, Malta, in June 2021, as part of the 16th International Federated Conference on Distributed Computing Techniques, DisCoTec 2021. The 9 regular papers and 4 short papers presented were carefully reviewed and selected from 26 submissions. They cover topics such as: software quality, reliability, availability, and safety; security, privacy, and trust in distributed and/or communicating systems; service-oriented, ubiquitous, and cloud computing systems; component-and model-based design; object technology, modularity, and software adaptation; self-stabilisation and self-healing/organising; and verification, validation, formal analysis, and testing of the above. Due to the Corona pandemic this event was held virtually.
