

1. Record Nr.	UNISA996418305503316
Titolo	Formal Techniques for Distributed Objects, Components, and Systems [[electronic resource]] : 40th IFIP WG 6.1 International Conference, FORTE 2020, Held as Part of the 15th International Federated Conference on Distributed Computing Techniques, DisCoTec 2020, Valletta, Malta, June 15–19, 2020, Proceedings / / edited by Alexey Gotsman, Ana Sokolova
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-50086-1
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (xii, 237 pages) : illustrations
Collana	Programming and Software Engineering ; ; 12136
Disciplina	004.36
Soggetti	Software engineering Computer logic Computer organization Artificial intelligence Software Engineering Logics and Meanings of Programs Computer Systems Organization and Communication Networks Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes author index.
Nota di contenuto	Full Papers -- Strategy Synthesis for Autonomous Driving in a Moving Block Railway System with Uppaal Stratego -- Towards Bridging Time and Causal Reversibility -- Defining and Verifying Durable Opacity: Correctness for Persistent Software Transactional Memory -- Conformance-Based Doping Detection for Cyber-Physical Systems -- On Implementable Timed Automata? -- Deep Statistical Model Checking -- Trace Equivalence and Epistemic Logic to Express Security Properties -- Derivation of Heard-Of Predicates From Elementary Behavioral Patterns -- Probabilistic Timed Automata with One Clock and Initialised Clock-Dependent Probabilities -- A Formal Framework for Consent Management -- Tutorials -- Tutorial: Parameterized

Verification with Byzantine Model Checker -- Typechecking Java
Protocols with [St]Mungo -- Short Paper -- Towards a Hybrid
Verification Methodology for Communication Protocols (Short Paper).

Sommario/riassunto

This book constitutes the proceedings of the 40th IFIP WG 6.1 International Conference on Formal Techniques for Distributed Objects, Components, and Systems, FORTE 2020, held in Valletta, Malta, in June 2020, as part of the 15th International Federated Conference on Distributed Computing Techniques, DisCoTec 2020.* The 10 full papers and 1 short paper presented were carefully reviewed and selected from 25 submissions. The conference is dedicated to fundamental research on theory, models, tools, and applications for distributed systems. *The conference was held virtually due to the COVID-19 pandemic. Chapter 'Conformance-Based Doping Detection for Cyber-Physical Systems' is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.
