1. Record Nr. UNISALENTO991001576509707536

Autore	Akomena Spazio Mosaico
Titolo	Akomena / [testi di Philippe Daverio, Cristina Morozzi, Sabina Ghinassi]
Pubbl/distr/stampa	Milano : Electa, [2005]
ISBN	8837034571
Descrizione fisica	105 p. : ill. ; 28 cm
Altri autori (Persone)	Morozzi, Cristinaauthor Daverio, Philippeauthor Ghinassi, Sabina
Disciplina	738.5
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Traduzione di Judith Goodman. Testi anche in inglese.

2. Record Nr. UNISALENTO991003233729707536

Autore	Del Monte, Guidobaldo, marchese <1545-1607.>
Titolo	Le mechaniche dell'illustriss. sig. Guido Ubaldo de' marchesi del Monte / tradotte in volgare dal sig. Filippo Pigafetta ..
Pubbl/distr/stampa	Venetia, Francesco di Franceschi, 1581
Descrizione fisica	[16] p., 127 f. num. : ill.; 22 cm.
Altri autori (Persone)	Pigafetta, Filippo <1533-1604>
Lingua di pubblicazione	Italiano
Formato	Microfilm
Livello bibliografico	Monografia
Note generali	Front. con fregio. Riproduzione in microfiche dell'originale conservato presso la Biblioteca Apostolica Vaticana

3. Record Nr. UNINA9910299356603321

Autore	Platzer André
Titolo	Logical Foundations of Cyber-Physical Systems / / by André Platzer
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-63588-3
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XXXI, 639 p. 182 illus., 176 illus. in color.)
Disciplina	006.22
Soggetti	Logic, Symbolic and mathematical Artificial intelligence Automatic control Robotics Mechatronics Quality control Reliability Industrial safety Mathematical Logic and Formal Languages Artificial Intelligence Mathematical Logic and Foundations Control, Robotics, Mechatronics Quality Control, Reliability, Safety and Risk

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cyberphysical Systems: Introduction -- Differential Equations and Domains -- Choice and Control -- Safety and Contracts -- Dynamical Systems and Dynamic Axioms -- Truth and Proof -- Control Loops and Invariants -- Events and Responses -- Reactions and Delays -- Differential Equations and Differential Invariants -- Differential Equations and Proofs -- Ghosts and Differential Ghosts -- Logical Foundations and CPS -- Differential Invariants and Proof Theory -- Verified Models and Verified Runtime Validation -- Hybrid Systems and Games -- Winning Strategies and Regions -- Winning and Proving Hybrid Games -- Game Proofs and Separations -- Virtual Substitution and Real Equations -- Virtual Substitution and Real Arithmetic -- Axioms and Uniform Substitutions -- Differential Axioms and Uniform Substitutions -- Model Checking and Reachability Analysis -- Distributed Systems and Hybrid Systems.
Sommario/riassunto	Cyber-physical systems (CPSs) combine cyber capabilities, such as computation or communication, with physical capabilities, such as motion or other physical processes. Cars, aircraft, and robots are prime examples, because they move physically in space in a way that is determined by discrete computerized control algorithms. Designing these algorithms is challenging due to their tight coupling with physical behavior, while it is vital that these algorithms be correct because we rely on them for safety-critical tasks. This textbook teaches undergraduate students the core principles behind CPSs. It shows them how to develop models and controls; identify safety specifications and critical properties; reason rigorously about CPS models; leverage multi-dynamical systems compositionality to tame CPS complexity; identify required control constraints; verify CPS models of appropriate scale in logic; and develop an intuition for operational effects. The book is supported with homework exercises, lecture videos, and slides.