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Soggetti	Software engineering Computer logic Programming languages (Electronic computers) Computer communication systems Artificial intelligence Mathematical logic Software Engineering Logics and Meanings of Programs Programming Languages, Compilers, Interpreters Computer Communication Networks Artificial Intelligence Mathematical Logic and Formal Languages
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Nota di contenuto	Abstraction and Verification of Properties of a Real-Time Java. - Abstract Quantum Automata as Formal Models of Quantum Information Processing Systems.- Parallelizing Legacy Fortran Programs Using Rewriting Rules Technique and Algebraic Program Models. - University as a Corporation Which Serves Educational Interests.- A Multi-channel Communication Framework.- Satisfiability and Validity Problems in Many-Sorted Composition-Nominative Pure Predicate

Logics.- A Criterion for Existence of Global-in-Time Trajectories of Non-deterministic Markovian Systems.- Combining Verification and MDE Illustrated by a Formal Java Development.- About One Efficient Algorithm for Reachability Checking in Modeling and Its Implementation -- Cross-Diagram UML Design Verification.  
- Coursework Peer Reviews Increase Students' Motivation and Quality of Learning.- Influence of Music Art Multimedia Production on Professional Competence of the Future Music Teachers.- General Disciplines and Tools for E-Learning Software Engineering.- Formation of Digital Competence of Future Teachers of Elementary School.  
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#### Sommario/riassunto

This book constitutes the refereed proceedings of the 8th International Conference on ICT in Education, Research, and Industrial Applications, held in Kherson, Ukraine, in June 2012. The 14 revised full papers were carefully reviewed and selected from 70 submissions. This book begins with an invited contribution presenting the substance of one of ICTERI 2012 invited talks. The chapter deals with the issues of abstraction and verification of properties in real-time Java programs. The rest of the volume is structured in four topical parts: ICT Frameworks, Infrastructures, Integration, and Deployment; Formal Logic and Knowledge-Based Frameworks; ICT-Based Systems Modeling, Specification, and Verification; ICT in Teaching and Learning.

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