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Altri autori (Persone)	ShuklaSandeep K
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Metamodeling-Driven IP Reuse for SoC Integration and Microprocessor Design; Contents; Preface; References; Acknowledgments; Chapter 1 Introduction; Design IP; Verification IP; Design Reuse; Verification Reuse; 1.1 ONGOING EFFORTS IN DESIGN IP REUSE; 1.2 ONGOING EFFORTS IN VERIFICATION IP REUSE; 1.3 ESSENTIAL ISSUES WITH IP REUSE; Essential Issues with Design IP Reuse; (1) IP Provider; IP Library; Documentation; Quality Assurance; Standardization; (2) IP Integrator; Exploration; Integration; Methodology and Environment; (3) Tool Developer for IP Reuse; Support for IP Provider Support for IP IntegratorEssential Issues with Verification IP Reuse; (1) Modeling Language; (2) Generation Algorithms; 1.4 METAMODELING APPROACH TO REUSE; 1.5 PROBLEM STATEMENT; 1.6 RESEARCH CONTRIBUTIONS; 1.7 TOOLS AND TECHNIQUES DEVELOPED; References; Chapter 2 Background; 2.1 METAMODELING; 2.1.1 Implicit Metamodeling Versus Explicit Metamodeling; 2.1.2 Generic Modeling

Environment; 2.2 COMPONENT COMPOSITION FRAMEWORK; 2.3 REFLECTION AND INTROSPECTION (R-I); 2.4 SYSTEMC; 2.5 MODEL-DRIVEN VALIDATION; 2.5.1 Microprocessor Validation Flow; 2.5.2 Simulation-Based Functional Validation

2.6 TEST GENERATION 2.6.1 Constraint Programming; 2.6.2 Esterel Studio; 2.7 COVERAGE-DIRECTED TEST GENERATION; 2.7.1 Structural Coverage; 2.7.2 Functional Coverage; 2.7.3 Property Specification Language (PSL); 2.7.4 Fault Classification; References; Chapter 3 Related Work; 3.1 COMPONENT COMPOSITION FRAMEWORK; 3.1.1 The BALBOA Framework; 3.1.2 Liberty Simulation Environment (LSE); 3.1.3 EWD; 3.1.4 Ptolemy II; 3.1.5 Metropolis; 3.2 COMPONENT-BASED SOFTWARE DESIGN ENVIRONMENTS; 3.3 IP INTERFACING STANDARDS; 3.3.1 SPIRIT; 3.4 EXISTING TOOLS FOR STRUCTURAL REFLECTION

3.5 ARCHITECTURE DESCRIPTION LANGUAGES 3.6 TEST GENERATION; References; Part I Design Reuse; Chapter 4 A Metamodel for Component Composition; 4.1 CC LANGUAGE, METAMODEL, AND MODEL; 4.1.1 Component Composition Language (CCL); 4.1.2 Component Composition Metamodel (CCMM); 4.1.3 Component Composition Model (CCM); 4.2 CC ANALYSIS AND TRANSLATION; 4.2.1 Consistency Checking; 4.2.2 Type Inference; 4.2.3 XML Translation; 4.3 CASE STUDIES; 4.3.1 AMBA AHB RTL Bus Model; 4.3.2 Simple Bus TL Model; 4.4 DESIGN EXPERIENCE AND SUMMARY; References; Chapter 5 IP Reflection and Selection

5.1 METADATA FOR IP COMPOSITION 5.2 METADATA ON A SYSTEMC IP SPECIFICATION; 5.3 TOOLS AND METHODOLOGY; 5.3.1 Stage 1: SystemC Parsing; 5.3.2 Stage 2: AST Parsing and DOM Population; 5.3.3 Stage 3: Processing and Constraining DOM; 5.4 IP SELECTION; 5.4.1 Illustrative Example; 5.5 CASE STUDY; 5.6 SUMMARY; References; Chapter 6 Typing Problems in IP Composition; 6.1 MCF TYPE DEFINITIONS; 6.1.1 Component Composition Language; 6.1.2 IP Library; 6.2 TYPE RESOLUTION IN MCF; 6.2.1 Type Inference on Architectural Template; 6.2.2 Type Substitution Using IP Library; 6.3 COMPARATIVE STUDY; 6.4 CASE STUDY

6.5 SUMMARY

Sommario/riassunto

This cutting-edge resource offers you an in-depth understanding of metamodeling approaches for the reuse of intellectual properties (IPs) in the form of reusable design or verification components. The book covers the essential issues associated with fast and effective integration of reusable design components into a system-on-a-chip (SoC) to achieve faster design turn-around time. Moreover, it addresses key factors related to the use of reusable verification IPs for a "write once, use many times" verification strategy - another effective approach that can attain a faster product design cycle.

2. Record Nr.	UNINA9910461472303321
Titolo	Biometrics [[electronic resource]] : theory, applications, and issues / / Ellen R. Nichols, editor
Pubbl/distr/stampa	New York, : Nova Science Publishers, 2011
ISBN	1-61761-143-3
Descrizione fisica	1 online resource (191 p.)
Collana	Nova biomedical Biotechnology in agriculture, industry and medicine series
Altri autori (Persone)	NicholsEllen R
Disciplina	570.1/5195
Soggetti	Biometry Biometric identification Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Sample size requirements for evaluating intervention effects in three-level cluster randomized clinical trials / Moonseong Heo, Mimi Y. Kim -- A modified locally linear discriminant embedding for tumor classification / Shanwen Zhang, Deshuang Huang, Bo Li -- Fusion approach for improving the performance in voice biometrics / Di Liu ... [et al.] -- Fusion of lighting insensitive approaches for illumination robust face recognition / Loris Nanni, Sheryl Brahnam, Alessandra Lumini -- A two-part generalized linear mixed modelling approach to analyze physical activity outcomes / Andy H. Lee, Liming Xiang, Fumi Hirayama -- Biometric identification paradigm : towards privacy and confidentiality protection / Julien Bringer ... [et al.].