

1. Record Nr.	UNISA996465483003316
Titolo	Perspectives of System Informatics [[electronic resource]] : 11th International Andrei P. Ershov Informatics Conference, PSI 2017, Moscow, Russia, June 27-29, 2017, Revised Selected Papers / / edited by Alexander K. Petrenko, Andrei Voronkov
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2018
ISBN	3-319-74313-9
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (XI, 432 p. 80 illus.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 10742
Disciplina	004
Soggetti	Computer science Software engineering Compilers (Computer programs) Computer programming Electronic digital computers—Evaluation Computers Professions Computer Science Logic and Foundations of Programming Software Engineering Compilers and Interpreters Programming Techniques System Performance and Evaluation The Computing Profession
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	An Architecture for Non-invasive Software Measurement -- A Human-in-the-loop Perspective for Safety Assessment in Robotic Applications -- Multi-level Static Analysis for Finding Error Patterns and Defects in Source Code -- Pipelined Bottom-up Evaluation of Datalog Programs: The Push Method -- Multi-cloud Applications Security Monitoring -- The Hybrid Multidimensional-ontological Data Model Based on

Metagraph Approach -- PosDB: A Distributed Column-store Engine --
 Microservices: How To Make Your Application Scale -- Static Binary
 Code Instrumentation for ARM Architecture -- A Behavioural Theory for
 Reactive Sequential Algorithms -- Lightweight Non-Intrusive Virtual
 Machine Introspection -- Distributed Approach to Coreference
 Resolution in Multi-agent Text Analysis for Ontology Population -- A
 Framework for Dynamical Construction of Software Components -- A
 Transformation-Based Approach for Developing High-Performance GPU
 Programs -- Domain Engineering the Magnolia Way -- Approximating
 Event System Abstractions by Covering Their States and Transitions --
 Implementing the Symbolic Method of Verification in the C-light Project
 -- Highlights of the Rice-Shapiro Theorem in Computable Topology --
 A Memory Model for Deductively Verifying Linux Kernel Modules --
 Indexing of Hierarchically Organized Spatial-temporal Data Using
 Dynamic Regular Octrees -- An Approach to the Validation of XML
 Documents Based on the Model Driven Architecture and the Object
 Constraint Language -- Compositional Relational Programming with
 Nominal Projection and Compositional Synthesis -- WhaleProver: First-
 order Intuitionistic Theorem Prover Based on the Inverse Method --
 Distributed In Situ Processing of Big Raster Data in the Cloud --
 Statistical Approach to Increase Source Code Completion Accuracy --
 Using the Subject Area Ontology for Automating Learning Processes
 and Scientific Investigation -- Runtime Specialization of PostgreSQL
 Query Executor -- MicroTESK: A Tool for Constrained-Random Test
 Program Generation for Microprocessors -- Enriching aA Textual Xtext-
 DSL with A Graphical GEF-based Editor -- Towards Automated Static
 Verification of GNU C Programs -- Domain Specific Semantic Validation
 of Schema.org Annotations. .

Sommario/riassunto

This book constitutes the refereed proceedings of the 11th
 International Andrei P. Ershov Informatics Conference, PSI 2017, held in
 Moscow, Russia, in June 2017. The 31 full papers presented in this
 volume were carefully reviewed and selected from 57 submissions. The
 papers cover various topics related to the foundations of program and
 system development and analysis, programming methodology and
 software engineering and information technologies.
