

T a b l e o f C o n t e n t s

Foreword	
<i>A.S. Kamkin, A.K. Petrenko, A.N. Terekhov</i>	7
FRIS language service for extended Fortran support in Microsoft Visual Studio	
<i>I.S. Ratkevich</i>	9
Pitfalls of C# Generics and Their Solution Using Concepts	
<i>J. Belyakova, S. Mikhalkovich</i>	29
Visual Parallel Programming as PaaS cloud service with Graph-Symbolic Programming Technology	
<i>D. Egorova, V. Zhidchenko</i>	47
Seamless Development Applicability: an Experiment	
<i>A. Naumchev</i>	57
Intelligent Design of Class Structure Model based on Ontological Data Analysis	
<i>A.N. Kovartsev, V.S. Smirnov, S.V. Smirnov</i>	73
Procedures classification for optimizing strategy assignment	
<i>O.A. Chetverina</i>	87
Unified Model for Testing Object-Oriented Application Development Tools	
<i>P.P. Oleynik</i>	101
Method of Symbolic Test Scenarios Automated Concretization	
<i>N.V. Voinov, P.D. Drobintsev, I.V. Nikiforov, V.P. Kotlyarov, A.V. Kolchin</i>	115
An Approach to Test Program Generation Based on Formal Specifications of Caching and Address Translation Mechanisms	
<i>A. Kamkin, A. Protsenko, A. Tatarnikov</i>	125
An approach to Direct Memory Access module verification	
<i>V. Kutsevol, A. Meshkov, M. Ryzhov, P. Frolov</i>	139
A Model-Based Approach to Design Test Oracles for Memory Subsystems of Multicore Multiprocessors	
<i>A. Kamkin, M. Petrochenkov</i>	149
An Extended Finite State Machine-Based Approach to Code Coverage-Directed Test Generation for Hardware Designs	
<i>I. Melnichenko, A. Kamkin, S. Smolov</i>	161
On the Implementation of a Formal Method for Verification of Scalable Cache Coherent Systems	
<i>V. Burenkov</i>	183
The Application of Coloured Petri Nets to Verification of Distributed Systems Specified by Message Sequence Charts	
<i>S.A. Chernenok, V.A. Nepomniashchy</i>	197

Carassius: A Simple Process Model Editor <i>N. Nikitina, A. Mitsyuk</i>	219
Iskra: A Tool for Process Model Repair <i>I. Shugurov, A. Mitsyuk</i>	237
Comparing process models in the BPMN 2.0 XML format <i>S. Ivanov, A. Kalenkova</i>	255
Remote Service of System Calls in Microkernel Hypervisor <i>K. Mallachiev, N. Pakulin</i>	267
Constructing Private Service with CRYP2CHAT application <i>A. Kiryantsev, Irina Stefanova</i>	279
Combined Classifier for Website Messages Filtration <i>V. Tarasov, E. Mezenceva, D. Karbaev</i>	291
Statistical data handling program of Wireshark analyzer and incoming traffic research <i>V. Tarasov, S. Malakhov</i>	303
Effective Use of Resources Distributed Cloud Computing Platform for Providing Quality Multimedia Services <i>I. Bolodurina, D. Parfenov</i>	315
Searching method of personal details on the basis of fuzzy comparison <i>N. Limanova, M. Sedov</i>	329
Effective interaction with the DIM DBMS <i>D.V. Antonov, V.S. Roublev</i>	343
A Crowdsourcing Engine for Mechanized Labor <i>D.A. Ustalov</i>	351
Software tools for organization and support of distance learning game system «3Ducation» <i>L.S. Zelenko, D.A. Konopelkin, V.S. Ivanov, A.O. Grigoriev, A.E. Semenov, M.A. Savachayev, E.E. Poberezkin</i>	365
Acceleration of profile creation for three-dimensional vector video with GPGPU <i>A.A. Tsyganov</i>	379
Two-step Harmonious Melody Generator <i>S. Latkina</i>	389