



Moscow * January 18-22, 1999

PROGRAM

of the 1st International Workshop on
**Computer Science and
Information Technologies**

<http://msu.JurInfoR.ru/CSIT/>

MEPhI * Scientific Session
Moscow, Russia

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University of Karlsruhe,
Germany

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Moscow State Engineering
Physical Institute, Russia

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Lincoln Wallen	(Oxford University, UK)
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Arkady Zaslavsky	(Monash University, Melbourne, Australia)

■ The Workshop is organized by:

the Institute for Contemporary Education “JurInfoR-MSU”, Russia and the Moscow State Engineering Physical Institute (Technical University), Russia *in collaboration with* the University of Karlsruhe, Germany and Humboldt University of Berlin, Germany *in cooperation with* the Russian Foundation for Basic Research.

■ The Workshop is supported by:

the Russian Foundation for Basic Research

■ Aims and Scope

The Workshop on Computer Science and Information Technologies (CSIT) - an annual high quality international conference - will provide a forum for the exchange of scientific achievements between the research communities of Eastern Europe and the rest of the world in the area of computer science and information technologies. The Workshop on Computer Science and Information Technologies (CSIT'99) is aimed at bringing together researchers, practitioners, developers, and users to explore new concepts, tools and techniques for advanced information technologies. The symposium will last three days, the program of each day being organized in sessions.

■ Electronic Edition

The Electronic Edition of the CSIT'99 Workshop Proceedings is available via <http://msu.JurInfoR.ru/CSIT/>



Monday, January 18, 14:00 - 14:20 (Grand Hall)

Chairs opening address.

Monday, January 18, 14:20 - 15:00 (Grand Hall)

Session Chair: Viacheslav Wolfengagen (Russia)

Tutorial T-1. *MEPhI Information Exchange Structure.* Victor Metechnik (MEPhI, Russia)

Track “I”

Monday, January 18, 15:00 - 16:30 (Grand Hall - 404)

Research Session I-1. Object-oriented environments

Session chair: Oleg Balovnev (Germany)

From UML Diagrams to Object Oriented Code

Liliana Favre (Universidad Nacional del Centro de la Provincia de Buenos Aires, Argentina)

Towards a Logic for Representation and Retrieval of Incomplete Temporal Objects

Ed Porto Bezerra (Federal University of Paraiba, Brasil), Ulrich Schiel (Federal University of Paraiba, Brasil), Bernardo Lula Junior (Federal University of Paraiba, Brasil)

An Interactive Specification Environment for Stream-Oriented Processing

Kei Karasawa, Koso Murakami (Osaka University, Japan), Makoto Iwata, Hiroaki Terada (Kochi University of Technology, Japan)

16:30 – 17:00 **Coffee break**

Monday, January 18, 17:00 - 18:30 (404)

Research Session I-5. Data Repositories and Web

Session chair: Alex Zabrodin (Russia)

Spatial Data Model for Feature-based GIS

Wang Feng (Nanjing University, China), Yang Shuqiang, Chen Huowang (National University of Defence Technology, China), Sha Jichang (Nanjing University, China)

Opening Spatial Data Repositories for the Web

Oleg T. Balovnev, Martin Breunig, Armin. B. Cremers (University of Bonn, Germany)

Interactive Video Services through Workflow

Elisa Bertino, Danilo Montesi (University of Milano, Italy) Alberto Trombetta (University of Torino, Italy)

Tuesday, January 19, 14:00 - 16:00 (404)

Session Chair: Viacheslav Wolfengagen (Russia)

Tutorial T-2. *Data Sharing on High Performance Networks.* Laurent Lefevre (University of Lyon, France)

16:00 – 16:30 Coffee break

Tuesday, January 19, 16:30 - 18:00 (404)

Research Session I-3. Constraints and Development

Session chair: Eugene Chepin (Russia)

A Shared Object Environment for Developing Distributed Applications

Zair Abdelouahab, Francisco José da Silva e Silva (Universidade Federal do Maranhão, Brazil), Mohamed Mohsen Gammoudi (Universite des Sciences de Tunis, Tunisia)

Constraints for Non Predefined Data Types

Zair Abdelouahab, Eveline de Jesus Sa Fernandes (Universidade Federal do Maranhao, Brazil), Mahamed Mohsen Gammoudi (Universite des Sciences de Tunis, Tunisia)

Developing a Generic CASE Interface Using an Interactive Framework

Luiz Fernando Capretz Miriam Akemi Manabe Capretz (Brazil)

Introducing Personal Software Process in a Swedish Company

Terttu Orci (Royal Institute of Technology, Sweden)

Wednesday, January 20, 10:00 - 11:30 (404)

Research Session I-4. Conceptual Modeling

Session chair: Hae-Young Bae (South Korea)

Distributed Transactional System Using Versions of Entity Instances

Tayeb Ould Braham (Limoges, France)

Conceptual Database Design Basing on Consistent and Adaptable Dialogues

Margita Altus (Brandenburg's Technical University of Cottbus, Germany)

Event Driven Objects

V.E.Wolfengagen (JurInfoR-MSU Institute for Contemporary Education/MEPhI, Russia)

Posters

L.T.Kuzin: Research Program

V.E.Wolfengagen (JurInfoR-MSU Institute for Contemporary Education/MEPhI, Russia)

Wednesday, January 20, 11:30 - 13:00 (404)

Research Session I-2. System Issues and Models

Session chair: Margita Altus (Germany)

Link State Routing Protocol with Cluster Based Flooding for Mobile Ad-hoc Computer Networks

Boris Mitelman, Arkady Zaslavsky (Monash University, Australia)

Extended Call Level Interface (CLI) for Real-time Main Memory Database Systems

Gyoung-Bae Kim, Sook-Kyoung Cho, Hae-Young Bae (Inha University, South Korea), Kwang-Chul Jung (ETRI, South Korea), Soon-Jo Lee (Seowon University, South Korea)

Event Driven Computations for Relational Query Language

Larissa Ismailova, K. E. Zinchenko, L.V.Bourmistrova (Institute for Contemporary Education "JurInfoR-MSU", Russia)

Posters

Concept of Factographic SQL-based Database

Alexander Grigoriev (Moscow Engineering Physical Institute, Russia), Alexey Grigoriev, Sergey Nikonov (VNIIEF Sarov, Russia)

13:00 – 14:00 **Lunch**

Wednesday, January 20, 14:00 - 15:00 (404)

Research Session I-6. Multimedia and Knowledge Discovery

Session chair: Arkady Zaslavsky (Australia)

Intelligent Multimedia-A New Computing Technique And Its Applications

Cyrus F. Nourani (META AI and UCSB, USA)

The NT(M)S Parser: an Efficient computational Linguistic Tool

Guenther Flied, Willi Mayerthaler, Christian Winkler (University of Klagenfurt, Austria)

Posters

An Approach for Creating Distributed Intelligent Systems

Dmitri Soshnikov (Moscow Aviation Institute (Technical University), Russia)

Features of Decision Trees as a Technique of Knowledge Modelling

Richard F. Bonner (Malardalen University, Sweden), Violetta Galant, Mieczyslaw L. Owoc (Wroclaw University of Economics, Poland)

Expert System - Adviser of the Financial Manager Commercial Bank

Vladimir Domrachev (Institute for Cybernetics UAS, Kiev, Ukraine)

Wednesday, January 20, 15:00 - 16:00 (404)

Research Session I-7. Data Mining and Classification

Session chair: Alexandre Gavrilo (Russia)

Managing Training Examples for Fast Learning of Classifiers Ranks

Boris Omelaenko, Vagan Terziyan (Kharkov State Technical University of Radioelectronics, Ukraine), Seppo Puuronen (University of Jyväskylä, Finland)

Rule Measure to Represent the Temporal Changes of Data Mining Patterns

Shonali Krishnaswamy, Arkady Zaslavsky (Monash University, Australia)

Posters

Applying Decision Trees in Classification Tasks

Violetta Galant, Mieczyslaw L. Owoc, Tomasz Gladysz (Wroclaw University of Economics, Poland)

16:00 – 16:30 **Coffee break**

Wednesday, January 20, 16:30 - 17:30 (404)

Research Session I-8. Web Databases

Session chair: Borislav Gorelov (Russia)

Introducing Quality of Service for the Web

Vladislav S. Voinov (St.Petersburg Technical University, Russia)

Reusing Legacy Code in the ISAPI Modules

A. A. Alexandrov (Institute of Molecular Genetics RAS, Russia), Roman Snytsar(Interna Ltd., Russia)

Posters

Intelligent Web-search for Job Vacancies

Michael Faybisovich (Moscow Engineering Physics Institute, Russia)

Developing Web Site as Database Mapping

Gleb Pogodaev (Institute for Contemporary Education "JurInfoR-MSU", Russia)

Wednesday, January 20, 17:30 - 18:30 (404)

Research Session I-9. GIS

Session chair: Roman Snytsar (Russia)

Implementing a Geographically Distributed Database System with Spatial Information

Alexey Zabrodin (Moscow Engineering Physical Institute, Russia)

An Approach to On-line Geoinformation Modeling

Valeri Gitis, Boris Osher, Anton Dovgyallo (Institute for Information Transmission Problems, RAS, Russia),Tamas Gergely(Applied Logic Laboratory, Budapest, Hungary)

Posters

A Framework for Name Placement Problem Solving in GIS

Vladimir Miroshnikov, Eugene Chepin (Moscow Engineering Physics Institute, Russia)

Track "D"

Monday, January 18, 15:00 - 16:00 (405)

Research Session D-1. Knowledge Discovery

Session chair: Nikolay Eroslaev (Russia)

Knowledge Conceptions for Discovering Objects to Aerocosmic Snapshots

Andrey Kalivanov (A.F. Mozhayskiy's MECA, St.-Petersburg, Russia)

Data Models for Object Recognition at Aerocosmic Snapshots

Andrey Kalivanov (A.F. Mozhayskiy's MECA, St.-Petersburg, Russia)

16:00 – 16:30 **Coffee break**

Monday, January 18, 16:30 - 18:00 (405)

Research Session D-2. Protection and Clustering

Session chair: Andrey Kalivanov (Russia)

Computer Aided Design Facilities for Prototyping the Omega DBMS

Mikhail L. Zymbler (Chelyabinsk State University, Russia)

Data Security in Heterogeneous System PC Clients - AS/400 Server

M. Bardin, N. Emeljanov, A. Solovjov (Institute for System Studies RAS, Russia)

Adaptive Management of Processes of Protection of the Information from the Non-Authorized Access in Computing Systems

Nikolay Eroslaev (Academy of A.F. Mozhaisky, Russia)

Tuesday, January 19, 16:30 - 18:00 (405)

Research Session D-3. Protection and Clustering

Session chair: Leonid Sokolinsky (Russia)

To a Question on Impossibility of Development of Ideal Protection for the Distributed Information Systems

Sergey Kiryushkin (A.F. Mozhaysky's MECA, St.-Petersburg, Russia)

The Server Cluster for a Task Management Service

Igor Yu. Zhukov (Concern Systemprom, Russia)

Developing, Simulating and Managing Distributed COM Applications with XJ DOME

Andrei V. Borschhev, Alex E. Filippoff, Yuri G. Karpov (St.-Petersburg Technical University, Russia)

Tuesday, January 19, 18:00 - 18:30 (405)

Research Session D-4. System Issues

Session chair: Eugene Chepin (Russia)

Interprocessor Communication Support in the Omega Parallel Database System

Leonid B. Sokolinsky (Chelyabinsk State University, Russia)

Posters

The Problem on Computer System Scaling Optimization

Dmitry V. Usov, Valery A. Shaptsev (Institute of Information Technologies and Applied, Omsk, Russia)

The Use of the Multiprocessor Systems For the Reconstruction And Visualization of 3D Objects

A. Nikitin, E. Chepin (Moscow Engineering Physics Institute, Russia)

Dynamic Segmentation of Images Using Colour and Brightness Characteristics

Alexandre Andryushkin, Eugene Chepin (Moscow Engineering Physics Institute, Russia)

Main Advantages of New Version of Internet Protocol - IPv6, and its Security Mechanisms

I. A. Dotsenko (Moscow Engineering Physics Institute, Russia)

Wednesday, January 20, 10:00 - 11:00 (405)

Research Session ID-5. Methodology, Design and Development

Session chair: Eugene Chepin (Russia)

Applications Development Environment for the CAD Information Systems Design

Alexandre Gavrilov (Moscow Engineering Physics Institute, Russia), Alexandre Saevsky (Moscow, Russia)

Database Transformation from Relational to Object-Oriented Database and Corresponding Query Translation

Predrag Stanistic (MSU, Russia)

Posters

The Logical Approach to the Problem of Compiling the Time-Table

Sergej Akhmanov, Nikolaj Zemtsov (Moscow State University, Russia), Rostislav Yavorsky (Russian State University for Humanities, Russia)

Non-resolutional Formulae Derivation in Axiomatic Predicate Calculus

Yu. Orekhov, A. Schwab (State Aviation Technical University of Ufa, Russia)

About Coding of Mathematical Notations and Structure of Mathematical Information Systems "Differential Equations"

G. Osipenko, V. Zaitsev (St.-Petersburg State Technical University, Russia), A. Flegontov (Institute for Informatics and Automation of the RAS, Russia)

Wednesday, January 20, 11:00 - 11:30 (405)

Research Session D-6. Databases and Complex Queries

Session chair: Alexandre Gavrilov (Russia)

Specification and Result Representation of Complex Navigational Queries for Object Databases

Alexander A. Bukatov, Dmitry A. Zastavnoy (Rostov State University, Russia)

Posters

Relational Manifolds

E. Kalinin (N.N. Burdenko's Scientific Research Institute RAMS, Russia)

Open Knowledge Representation Language

M. Manushina (State Humanities University, Russia)

11:30 – 12:00 **Coffee break**

Wednesday, January 20, 12:00 - 13:00, 14:00 - 15:30 (405)

Research Session D-7. Complexity

Session chair: Leonid Sokolinsky (Russia)

Emulation of Complex Computing Systems and the Software Transferring Process

Alexander Surkov (Computers' Information Technologies Inc., St.-Petersburg, Russia), Vadim Urusov (E.P.A. Ltd, St.-Peterburg, Russia)

A Lower Bound for Integer Multiplication on Randomized Ordered Read-Once Branching Programs

Farid Ablayev (Kazan State University, Russia), Marek Karpinski (University of Bonn, Germany)

A Discrete Approximation and Communication Complexity Approach to the Superposition Problem

Farid Ablayev, Svetlana Ablayeva (Kazan State University, Russia)

Some Separation Problems on Randomized OBDDs

Marek Karpinski (University of Bonn, Germany), Rustam Mubarakzjanov (University of Kazan, Russia)

A Note on Las Vegas OBDDs

Rustam Mubarakzjanov (University of Kazan, Russia)

Industrial Sessions

Wednesday, January 20, 15:30 - 16:30 (405)

Industrial Session IS-1. Information Technology

Session chair: Georgy Lebedev (Russia)

Integrated Human Resources Information Systems: Involving Extra Data Sources Centered around Groupware

Sergey Zykov (ITERA International Energy Corporation, Russia)

Creation of Financial Flows' Planning, Management and Control System

Borislav Gorelov, Boris Gorelov (Moscow Engineering Physics Institute, Russia)

16:30 – 17:00 **Coffee break**

Panel Discussion

Development and Use Corporate Object-Oriented Technology HOPE (Hyper-Object Processing Environment) in Consulting Business Processes

Raul Cevallos, Sergey Kucherov , Sergey Kolchin , Dmitry Korobsky, Igor Volkov (Price Waterhouse, Moscow, Russia)

Wednesday, January 20, 17:00 - 18:00 (405)

Industrial Session IS-2. Information Technologies, Applications and Models

Session chair: Sergey Zikov (Russia)

Automation of Human Resources Management Process in Insurance Company

Borislav.Gorelov, Boris Gorelov, E.J.Borissova(Moscow Engineering Physics Institute, Russia)

Basic Principles of the Organization of Automated Record-Keeping of Medical Care in Medical and Preventive Treatment Institutions

Georgy Lebedev, Oleg Zekiy (RELAX, Russia)

Posters

Toolkits to Support Databases in Internet

Vitaly Andreehin, Vitaly Pavlenko (State Politechnical Institute, Odessa, Ukraine)

Digital Illness Story for N.Burdenko's RI: Towards Implementation

Michael Shifrin (N.N. Burdenko's Scientific Research Institute RAMS, Moscow, Russia)

Man Informational Environment. Problem Definition

Valeryi A. Shaptsev (IITAM, Omsk, Russia)

RFBR Sessions

Monday, January 18, 15:00 - 15:40 (406)

RFBR Session RF-1. Astronomy

Session chair: Victor Miller (Russia)

Siberian Solar Radiotelescope - a Management, Informativity, Telecommunication Data Access

V.G. Miller, S.V. Lesovoi, S.K. Konovalov (Institute of Solar-Terrestrial Physics SD RAS, Irkutsk, Russia)

Network Database Management in Pulsar Astrometry Researches

A.E. Avramenko, O.V. Doroshenko, Yu.P. Ilyasov, V.A. Potapov (PRAO FIAN, Russia), A.N. Belikov, O.B. Dluzhnevskaya (Institute of Astronomy RAS, Russia)

Monday, January 18, 16:00 - 17:20 (406)

RFBR Session RF-2. Biology

Session chair: Paul Kosterin (Russia)

The Computer Biological Editions on Compact Discs: Classification and Prospects

Igor S. Smirnov, A.L. Lobanov, A.F. Alimov, M.B. Dianov (Zoological Institute of RAS, St.-Petersburg, Russia)

The Application of Modern Computational Methods for Investigation of Indole-3-acetic Acid Biosynthesis

E.A. Zakharova, A.A. Shcherbakov, P.V. Kosterin (Institute of Biochemistry and Physiology of Plants and Microorganisms, Saratov, Russia)

The Application of Regression Analysis for Computer Modelling of Vitamin Effects on Bacterial Synthesis of Auxin

E.A. Zakharova, and P.V. Kosterin (Institute of Biochemistry and Physiology of Plants and Microorganisms, Saratov, Russia)

Information System for Microbial Nomenclature and Taxonomy

Lev Kalakoutskii, Alexander Mazanov (Institute of Biochemistry and Physiology of Microorganisms RAS, Russia)

Monday, January 18, 17:20 - 18:40 (406)

RFBR Session RF-3. Chemistry

Session chair: Lev Kalakoutski (Russia)

Information Support of Mathematical Modeling in Chemical Kinetics

S.A. Losev, A.L. Sergievskaya, E.A. Kovach (Institute of Mechanics, Russia)

Access to the Structural Chemical Databases via Internet

V. G. Avakyan, A. O. Ait, A. N. Petrov, J. B. Kopneva (Photochemistry Center of RAS, Russia), I. I. Baskin (N. D. Zelinski Institute of Organic Chemistry, Russia), N. N. Kochanova, E. V. Koltunova (VINITI, Russia)

The Information System on Molecular Recognition in Protein-Ligand Complexes

A.S.Ivanov, A.M.Shkrob, V.S.Skvortsov, A.V.Dubanov, A.V.Veselovsky, N.V.Belkina (Institute of Biomedical Chemistry, Russia)

ACTIVITY: The Distributed and intelligent Database for the Activities of the Functional Sites in DNA and RNA

Mikhail P. Ponamarenko, Julia V. Ponamarenko, Nikolay A. Kolchanov, Dagmara P. Furman, Anatoly S. Frolov (Institute of Cytology and Genetics, SB RAS, Russia), Nikolay L. Podkolodny (Institute of Computational Mathematics and Mathematical Geophysics, SB RAS, Russia)

Tuesday, January 19, 14:00 - 15:20 (406)

RFBR Session RF-4. Genetics, Biochemistry

Session chair: Feodor Kolpakov (Russia)

Integration of Databases TRRD, TRANSFAC, EMBL, EPD, SWISS-PROT and GeneNet on the basis of OO-representation and semantic analysis of their contents

F. Kolpakov (Institute of Cytology and Genetics, Novosibirsk, Russia)

GeneNet Database: Automated Visualization of Gene Networks and their Dynamics

F. Kolpakov, E. Ananko, G. Kolesov, N. Kolchanov (Institute of Cytology and Genetics, Novosibirsk, Russia)

Thermodynamical Approximation Models in Computer Aided System for Processing, Store and Prescribing the Balanced Properties for Monomers, Polymers and their Compounds

A. Kutjii, D. Pyadushkin, L. Tsvetkova (N.I. Lobachevsky's State University of Nizhny Novgorod, Russia)

Modern Internet Technologies for Hypermedia Information Systems Describing Ensembles of Genes-Controllers of Development

Alexander V. Spirov (Institute for High-Performance Computing & Data Bases, Russia)

Tuesday, January 19, 15:20 - 16:20 (406)

RFBR Session RF-5. GIS

Session chair: Lev Kitaev (Russia)

The GEISA-97 Spectroscopic Databank: Internet-based Data Access and Information Facilities (GEISA/WWW)

N. Jacquinet-Husson, G. Lefevre, N.A. Scott, A. Chedin (Ecole Polytechnique, France), A.A. Chursin (Institute of Atmospheric Optics, Tomsk, Russia)

Geoinformation Methods in Researches of the Snow Cover and River Spring Flood Intersection

L.Kitaev, T.Wegener, A.Kachalin (Institute of Geography RAS, Russia)

Organization WWW-access to Resources Corporative GIS ISC SB RAS

Igor Bychkov, E. Kukharensko (IDSCT SB RAS, Irkutsk, Russia)

16:20 – 16:50 **Coffee break**

Tuesday, January 19, 16:50 - 17:50 (406)

RFBR Session RF-6. Measurements

Session chair: Yuri Tyupkin (Russia)

Development of Databases for the Systems for Acquisition, Processing and Distribution of Satellite Data

E. Loupian, A. Mazurov, R. Nazirov, A. Proshin, E. Flitman (Russian Space Science Institute, Russia)

Integrated Satellite Altimetry Data Base: Organization, Data Base Management System and Application

S.A. Lebedev, P.P. Medvedev, Yu.S. Tyupkin (Geophysical Center, RAS, Russia)

Network Multimedia Database on Structure and Properties of Liquid and Crystalline Metals

Dmitry N. Panov, Boris R. Gelchinski, Valery P. Beskachko (Southern Ural State University, Russia)

Wednesday, January 20, 10:00 - 11:00 (406)

RFBR Session RF-7. Computing and Applications

Session chair: V. Goryachev (Russia)

Extension of the SELIGER computation-information capabilities to solving CFD problems via Internet

V.D. Goryachev, D.S.Rikov, V.E.Balashov (Tver State Technical University, Russia), E.M.Smirnov, S.V. Knyshev (St.Petersburg Technical University, Russia)

The IBPPM Results in Development and Applications in Computing and Information

E.A.Zakharova, P.V.Kosterin, D.N.Tychinin, I.M.Charkin, A.Yu.Bochkaryov (Institute of Biochemistry and Physiology of Plants and Microorganisms, Saratov, Russia)

THE IBPPM Guide to Better Scientific English

Dmitry N. Tychinin and Paul V. Kosterin (Institute of Biochemistry and Physiology of Plants and Microorganisms, Russia)

Wednesday, January 20, 11:00 - 12:00 (406)

RFBR Session RF-8. Information Resources and Repositories

Session chair: Vasily Bunakov (Russia)

IHEP Library Digital Collections

Vasily Bunakov (Institute for High Energy Physics, Protvino, Russia)

Intellectual Technology of Information Search: KEY TO TEXTS

M. Kreines, A. Afonin, V. Purtov, A. Bolshakov (MCNIT, Moscow Medical Academy, Russia)

Information System "Topical Plan for JINR Research and International Cooperation"

A.Sh.Petrosyan, T.M.Goloskokova, E.G.Nikonov, T.A.Strizh (LCTA JINR, Dubna, Russia)

Closing

18:30 – 19:00 **Panel discussion. Workshop Closing**