

The 7th International Conference

*Microelectronics and
Computer Science*
Conference Program

September 22-24, 2011, Chisinau,
Republic of Moldova

and

Earth Rover - 2011
Competition Program

September 21-24, 2011, Chisinau,
Republic of Moldova

Technical University of Moldova, 2011

7th International Conference on Microelectronics and Computer Science, Chişinău,
Republic of Moldova, September 22-24, 2011

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**Organizing Committee of the 7th International Conference on
Microelectronics and Computer Science 2011 (ICMCS-2011)**

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The program contains the timetable of the Plenary Sessions and Conference Sessions of the Seventh International Conference on Microelectronics and Computer Science, Chisinau, Moldova, September 22-24, 2011.

The Organizing Committee of the 7th **International Conference on Microelectronics and Computer Science** highly appreciates the financial and technical support provided by the following agencies and enterprises:

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Conference Topics

Section	ROOM	Topics:
A.	3-414	Micro-opto-electronics: new materials and structures, production of thin layers, optical properties, luminosity, electric and magnetic properties, semiconductor device physics, electric, optic and mechanic micro-systems, micro sensors, advanced micro and nano-electronic devices.
B.	3-405	Nano-Science and Nanotechnology: nano-materials and nanostructures – their technology and study, metrology and characteristics, compositional nano-structures, nano-fibres and nano-dots, nano-electronics.
C.	3-501	Computer science: High-level calculus, VLSI and their synthesis, artificial intelligence, web technologies, software and programming technologies, databases.
D.	3-202	Electronics and communications: electronics systems and technologies, signal and image processing, mobile communications, multimedia communications, communication equipment and systems.
E.	3-208/ 3-210	New technology for university education.
F.	3-401	The Exhibition <i>JMD Planet</i>, Moldova
G.	3-101	The Exhibition <i>AlliedTesting S.R.L.</i>
H.	3-114	The Exhibition <i>RENAM Association</i>
I.	3-201	The Exhibition <i>MoldData IS</i>
J.	3-215	The Exhibition <i>InformInstrument IS</i>

**7th International Conference on
Microelectronics and Computer Science**

September 21	September 22	September 23	September 24
9.00 - 20.00 Registration of participants (ROOM: 3-201 *)	8.00 – 10.00 Registration of participants** 10.00 – 13.00 Opening and Plenary Session (ROOM: 1-1)**	9.30 – 13.00 Oral sessions (A, B, C, D, E), Exhibitions (F, G, H)*	10.00 – 16.00 A trip to Orheiul Vechi 17.00 Departure of Participants
	13.00 – 15.00 Lunch 15.00 – 17.00 Exhibition (H) (ROOM: 3-114)* 15.00 – 18.00 Plenary Session (ROOM: 3-3)*	13.00 – 15.00 Lunch 14.00 – 17.00 Posters (A, B, C, D, E)*, 14.00-17.00 Earth-Rover 2011 Competition, 17.00-18.00 Closing of the Conference* (ROOM 3-3)	

* str. Studenţilor, 7, Faculty of Computer Science,
Informatics and Microelectronics

** bd. Ştefan cel Mare, 168.

Earth Rover 2011 Competition

September 21	September 22	September 23	September 24
9.00 - 20.00 Registration of participants (ROOM: 3-202 *) AND Projects Design (ROOM: 3-*)	8.00 – 13.00 Projects Design (ROOM: 3-*) 13.00 – 15.00 Lunch	8.00 – 12.00 Projects Design (ROOM: 3-*) 12.00 – 13.00 Lunch 13.00 – 17.00 Public Project Presentation (ROOM: 3-3)	10.00 – 16.00 A trip to Orheiul Vechi 17.00 Departure of Participants
	15.00 – 21.00 Projects Design (ROOM: 3-*) 18.00 – 22.00 Cultural Program	18.00 – 22.00 Cultural Program	

* str. Studenţilor, 7, Faculty of Computer Science,
Informatics and Microelectronics

SITE of the Conference

The **ICMCS-2011** conference will be held on September 22-24, 2011 at the Campus of Technical University of Moldova Faculty of Computer Science, Informatics and Microelectronics, 7, Studentilor str., Chisinau, Republic of Moldova.

Your way to the conference hall is either by trolley-bus Nr. 10, 11, 14 or minibuses Nr. 110, 111, 162, 119.

The conference will open at 10.00 22nd of September, 2011.

Address:

Technical University of Moldova,
168, Stefan cel Mare av., MD-2004, Chisinau,
Republic of Moldova

Language

The official language of the Conference is **English, Romanian or Russian.**

Available equipment

The conference rooms will contain the following equipment:

- Screen
- Video projectors
- PC

CONFERENCE PROGRAMME

22 September 2011

8⁰⁰-10⁰⁰	Participant Registration
10⁰⁰-10¹⁰	Conference Opening Ion Bostan – Rector of the Technical University of Moldova
Welcome Speeches (ROOM: 1 – 1)	
10¹⁰-11⁰⁰	Mihai Şleahţiţchi - Minister of Education
	Pavel Filip – Minister of Information Technologies and Communications
	Gheorghe Duca – President of the Academy of Sciences of Moldova
	Marius Gabriel Lazurca – Ambassador of Romania
	Dumitru Prunariu – Romania, astronaut
	David Anderson – President of The World Genesis Foundation United Nations, Ambassador for Youth
	Corneliu Chişu - Vice President of the World Genesis Foundation, Canada
	Alexandru Mironov - Romanian science-fiction writer
	Petru Guran – Director of the Romanian Cultural Institute
	Valerîi Kantser – President of the National Council for Accreditation and Attestation of the Republic of Moldova
	Ion Tighineanu – Vice President of the Academy of Sciences of Moldova
	Andrei Andrieş – President of the RENAM Public Association
Liudmila Climoc – General Director, ORANGE Moldova	
Eugeniu Galamaga - General Director, Allied Testing, Moldova	

PLENARY SESSION (ROOM: 1-1)	
Co-chairs:	<i>I. Bostan, Moldova</i> <i>V. Kantser, Moldova</i>
11 ⁰⁰ -11 ²⁰	Explorarea Spațiului Cosmic: Istorie și Perspective <i>Dumitru PRUNARIU</i> – prim cosmonaut român, Președintele Asociației Internaționale a Exploratorilor Spațiului Cosmic, România
11 ²⁰ -11 ⁴⁰	Agenda de e-Transformare a Guvernului: Obiective și priorități <i>Stela MOCAN</i> - Director Executiv al Centrului Guvernare Electronica al Guvernului Republicii Moldova
11 ⁴⁰ -12 ⁰⁰	“World of tomorrow” <i>Alexandru MIRONOV</i> -Romanian science-fiction writer
13 ⁰⁰ -14 ⁰⁰	Sădirea unei aleii de copaci în parcul muzeu al UTM și vizitarea Centrului de Tehnologii Spațiale
14 ⁰⁰ -15 ⁰⁰	LUNCH

22 September 2011, 15⁰⁰ – 18⁰⁰

Section A, B, C, D, E: Plenary session (ROOM: 3-3)	
Co-chairs:	<i>A. Casian, Moldova</i> <i>V. Bostan, Moldova</i>
15 ⁰⁰ -15 ²⁰	LTE/4G - Tehnologia de generatie noua <i>Sergiu MIHAILOV</i> - Sef de echipa Optimizarea rețelei 3G, Orange Moldova SA
15 ²⁰ -15 ⁴⁰	Topological materials and topological quantum computing <i>Valerii KANTSER</i>
15 ⁴⁰ -16 ⁰⁰	M-Cloud: platforma tehnologică pentru e-guvernare <i>Iurie ȚURCANU</i> - Coordonator Tehnologic șef, Centrul de Guvernare Electronica, Moldova
16 ⁰⁰ -16 ²⁰	Development of Industry of Renewable Ecological Solar Autonomous Energy Station (Photovoltaic) <i>Victor CHEIBASH</i> – Director S.A.“InformInstrument”, Moldova
16²⁰ – 16⁵⁰ – Coffee Break	
16 ⁵⁰ -17 ¹⁰	The Land-Onboard Complex of a Control Flight Balloon <i>O. M. BREKHOV</i>
17 ¹⁰ -17 ³⁰	Distance Learning Education in the Republic of Moldova <i>V. PERJU</i>
17 ³⁰ -17 ⁴⁵	Superconducting Spin Valve Core Element Based on S/F Nanostructures <i>A. SIDORENKO</i>
17 ⁴⁵ -18 ⁰⁰	The Radiation Effects on Structural Defects and Reliability of High-k MOS Gate Dielectrics <i>S. T. SHISHIYANU</i>

23 September 2011, 9³⁰ – 13⁰⁰

Section A: Micro-Opto-Electronics	
(ROOM: 3-414)	
Co-chairs:	<i>V. Şontea, Moldova</i> <i>V. Tronciu, Moldova</i>
Comportarea ferofluidelor în câmpuri magnetice de joasă intensitate <i>C. BUZDUGA, A. BENABOU, V. BEŞLIU, G. MARUSIC, C. FILOTE, C. CIUFUDEAN</i>	
Area distribution of dark diode leakage currents in a-Si:H solar cell panel <i>M. N. BEROV, S. T. SHISHIYANU, T. S. SHISHIYANU, V. K. GUEORGUIEV</i>	
On the dynamics of multimode semiconductor lasers <i>V. Z. TRONCIU</i>	
On/Off phase shift keying encryption method of semiconductor lasers with an air gap <i>V. Z. TRONCIU, S. S. RUSU, and A. S. RUSU</i>	
Unconventional magnetic properties of La_{1-x}Ba_xMnO₃ thin films grown on SrTiO₃(100) by metalorganic aerosol deposition <i>A. BELENCHUK, V. KANTSER, V. MOSHNYAGA, O. SAPOVAL, E. ZASAVITSKI</i>	
Detection in the contacts with bismuth-antimony alloy when the surface states are in dynamic <i>I. KERNER</i>	
Bifilar microwires based on bismuth and tin <i>D. MEGLEI and M. DYNTU</i>	
Optical properties and photoconductivity of amorphous As₂Se₃:Sn thin films <i>D. V. HAREA, M. S. IOVU, E. P. COLOMEICO, I. A. COJOCARU, E. HAREA, M. A. IOVU</i>	
The Undular Model as Basis for Long-Range Ordered Structures <i>B. MIRONOV</i>	
11⁰⁰ – 11³⁰ – Coffee Break	
Si, Ge and SiGe wires for sensor application <i>A. A. DRUZHNIN, YU. M. KHOVERKO, I. P. OSTROVSKII, S. I. NICHKALO, A. A. NIKOLAEVA, L. A. KONOPKO, I. STICH</i>	

Economia ca suport inovaţional pentru dezvoltarea ştiinţei <i>S. BARANOV, V. CHEIBAŞ</i>
Structura spectrelor de iradiere a antimonidului de galiu dopat cu stibiu <i>E. GHEORGHİŢĂ, A. GHEORGHİŢĂ, O. ZLOTEA, I. POSTOLACHI</i>
Particularităţile de structură a spectrelor de iradiere ale tioindatului de zinc dopat cu mangan (ZnIn₂S₄:Mn) <i>E. ARAMĂ, E. GHEORGHİŢĂ, V. PÎNTEA</i>
Lihgt and Termal Induced Modification of the Refractive Index in As₄₅S₁₅Se₄₀ Glasses <i>M. S. IOVU, V. G. BENEA, E. P. COLOMEICO, I. A. COJOCARU</i>
Термоэлектрические эффекты в тонких нитях Bi_{1-x}Sb_x <i>П. БОДЮЛ, И. ПОПОВ, Е. МОЛОШНИК, Н. ДРАГУЦАН, Р. ГРИЦКО, С. КОТЫРШЕВ</i>
Contributions to the development of acid battery charging regulator from photovoltaic panels with MPPT function <i>S. GANGAN, V. TROFIM</i>
Transport theory of Schottky barrier diodes <i>A. A. KLYUKANOV, P. A. GASHIH, R. SCURTU</i>
Switching Effect in Transverse Thermopower in Bi Microwires <i>L. KONOPKO</i>

23 September 2011, 9³⁰ – 13⁰⁰

Section B: Nano-Science and Nanotechnology	
(ROOM: 3-405)	
Co-chairs:	<i>A. Casian, Moldova</i> <i>A. Sidorenco, Moldova</i>
Analysis of Active Two-Port Circuits with Variable Loads on the Basis of Projective Geometry <i>A. PENIN</i>	
Deviations from Wiedemann-Franz law in quasi-one-dimensional organic crystals <i>A. CASIAN, I. BALMUS, V. DUSCIAC</i>	
Empirical Linearly- Hyperbolic Approximation of the I-V Characteristic of the p-n Junction Devices <i>A. PENIN, A. SIDORENCO</i>	
Band Gap Size Dependence of Topological Insulator Bi_2Te_3 Nanotube <i>I. BEJENARI, V. KANTSER</i>	
Topological Transitions in the Strain Dependences of Thermopower and Resistance in Nanowires Based on Bi-Sn <i>A. A. NIKOLAEVA, L. A. KONOPKO, G. I. PARA, A. K. TSURKAN AND O. V. BOTNARY</i>	
Топологические Переходы Полупроводник-Полуметалл в Нитях $\text{Bi}_{1-x}\text{Sb}_x$ при Анизотропной Деформации <i>A. НИКОЛАЕВА, Л. КОНОПКО, Т. ХУБЕР, И. ПОПОВ, Е. МОЛОШНИК</i>	
Electrochemical Nanostructuring of CuInS_2 Bulk Crystals <i>E. MONAICO, V. URSAKI, V. ZALAMAI, A. MASNIK, N. SYRBU, A. BURLACU</i>	
Microstructure of Nb/CuNi Nanostructures <i>R. MORARI, J. KEHRLE, V. ZDRAVKOV, E. ANTROPOV, A. PREPELITSA, A. SOCROVISCUC, G. OBERMEIER, C. MÜLLER, S. HORN, L. TAGIROV, R. TIDECKS, A. SIDORENKO</i>	
11⁰⁰ – 11³⁰ – Coffee Break	
Energy Transfer in Organic Luminophore Nanocomposites <i>V. VERLAN, A.M. ANDRIESH, I. CULEAC, A. POPUSHOI, G. DRAGALIN, N. BARBĂ, S. BUZURNIUC, L. MALAHOV</i>	

Magnesium and Cadmium-alloyed Zinc Oxide Nanowires for Device Applications <i>O. LUPAN, L. CHOW, S. RAILEAN, V. SONTEA, I. POCAZNOI</i>
GaAs Epitaxial Microrelief Layer <i>S. BARANOV, B. CINIC, M. ENACHI, L. GORCEAC, V. SUMAN</i>

23 September 2011, 9³⁰ – 13⁰⁰

Section C: Computer Science	
(ROOM: 3-501)	
Co-chairs:	<i>E. Guţuleac, Moldova</i> <i>V. Beşliu, Moldova</i>
Creation of a Knowledge Framework for Non-Commutative Computer Algebra <i>S. COJOCARU, A. COLESNICOV, A. HEINLE, V. LEVANDOVSKYY, L. MALAHOV, G. STUDZINSKI, V. UFNAROVSKI</i>	
The Land-Onboard Complex of a Control Flight Balloon <i>O. M. BREKHOV</i>	
Definirea semanticii propoziţiei în limbaj natural <i>A. POPESCU, S. CREŢU</i>	
Minimizarea numărului punctelor de control pentru diagnosticarea elementelor reţelelor de comunicaţii multifuncţionale <i>D. ŢURCANU, P. NISTIRIUC, N. BEJAN, A. ALEXEI, S. FINCIUC, A. LACHI, M. IAZLOVEŢCHI, P. NISTIRIUC</i>	
Newton's Method for Solving Quadratic Programming Problems with Simple Constraints <i>V. MORARU, D. STOIAN</i>	
Aspecte de Modelare şi Analiză a Proceselor de Calcul Orientate pe Servicii Reconfigurabile <i>I. ŢURCAN, E. GUŢULEAC, D. PALII</i>	
Modelarea Managementului Calităţii Vieţii în Republica Moldova prin Reţele Petri Hibrade <i>S. GOROBIEVSCHI, E. GUŢULEAC</i>	
11⁰⁰ – 11³⁰ – Coffee Break	
Studiu de caz privind utilizarea modelelor IEC 61499 în controlul holonic de nivel înalt <i>V. VLAD, A. GRAUR, C. E. TURCU, C. CIUFUDEAN</i>	
Abordări în dezvoltarea sistemelor ”întrebare – răspuns” <i>L. CARCEA</i>	

Algoritm Iterativ de Acordare a Regulatorilor la Obiecte cu Inerţie de Ordinul Doi, Timp Mort şi Fază Neminimă <i>B. IZVOREANU</i>
Algorithm of decision making for autonomous mobile robotic system under indeterminate conditions <i>V. SITNIKOV, A. TROIAN, O. STRELTSOV</i>
Build-Time Javascript Code Analysis <i>A. OBJELEAN</i>
JSON Compression Algorithms <i>A. OBJELEAN</i>
A system for query and graphical analysis of abstract relational databases <i>A. OBJELEAN</i>
Sinteza sistemelor dinamice în spaţiul stărilor cu grad maximal de stabilitate <i>I. FIODOROV, A. PUTERE</i>
Новые и Модернизированные Алгоритмы для Системы RSA <i>A. АГАФОНОВ, А. БАЛАБАНОВ, Б. ИЗВОРЯНУ, И. КОЖУХАРЬ</i>
Clasificări ale limbajelor de specificare <i>D. CIORBĂ</i>
Specificarea problemelor clasice de concurenţă utilizând Object-Z <i>D. CIORBĂ</i>
Aspecte privind specificarea concurenţei utilizând diagramele comportamentale UML <i>D. CIORBĂ</i>
Magistrala guvernamentală a serviciilor electronice <i>V. BEŞLIU, M. IACOB</i>
Une méthodes universelle de restauration des signes diacritiques <i>V. BOBICEV, V. LAZU, L. CARCEA</i>
Studiul tipurilor de întrebări din sistemul de întrebare-răspuns <i>R. BOTNARU, V. BOBICEV</i>

23 September 2011, 9³⁰ – 13⁰⁰

Section D: Electronics and Communications	
(ROOM: 3-202)	
Co-chairs:	<i>N. Secrieru, Moldova</i> <i>V. Bostan, Moldova</i>
Система фотографирования и беспроводной передачи данных университетского наноспутника Сатум <i>В. УНГУРЯН, С. ГРИЦКОВ, Н. СЕКРИЕРУ, Ю. КОСТИН</i>	
QPSK-модулятор спутника "SATUM" на переключаемых микрополосковых линиях <i>Н. СЕКРИЕРУ, Г. СОРОКИН</i>	
Synthesis of the Active Low - Pass Filters (LPF) based on RC - Elements With Distributed Parameters <i>C. POPA, O. LAZĂR (GORODENCO), I. AVRAM</i>	
Amplitude Modulation <i>Y. DARADKEH, Q. ALMARWAN, M. ALSALEEM</i>	
Cracking Wired Equivalent Privacy (CWEP) <i>Yousef DARADKEH, Ahid AL MU'NGER</i>	
A modular approach to designing satellite simulations <i>I. ZAREA, A. NICOARA, V. BOSTAN, R. MELNIC</i>	
11⁰⁰ – 11³⁰ – Coffee Break	

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Section E: New technology for university education	
(ROOM: 3-208)	
Co-chairs:	<i>O. Teaci, Moldova</i> <i>M. Perebinos, Moldova</i>
Difracția luminii. Experiment numeric asistat de calculator <i>N. BALMUȘ, I. ANDRONIC</i>	
Metoda evaluării integrate în verificarea cunoștințelor studenților <i>M. PEREBINOS</i>	
Poemul haiku - instrument de educație și formare a cunoștințelor generale ale studenților <i>M. PEREBINOS</i>	
Metodologii de testare pe platforma eLearning Moodle <i>T. BRAGARU</i>	
Motivația și învățarea <i>A. ȘIȘIANU</i>	
Maple – aspects in teaching mathematics <i>V. OSIPOV</i>	
Clasificarea afixelor dupa criteriul etimologic si a partii de vorbire pe care o formeaza <i>S. CATERENCIUC</i>	
Cooperative Learning and Interactive Techniques in Language Teaching <i>A. ZAVADOVSCHI</i>	
11⁰⁰ – 11³⁰ – Coffee Break	
Terminologizarea (derivarea semantica) <i>S. CATERENCIUC</i>	
Work project method and its application of English learning <i>A. ZAVADOVSCHI</i>	
E-learningul și tehnologiile multimedia <i>N. SAVA</i>	
Teaching vocabulary to learners of english <i>C. STRATULAT</i>	

Interfața în limbaj natural pentru bazele de date ale sistemelor de întrebare – răspuns (QA) <i>A. POPESCU, V. MAXIM</i>
Lucrări de laborator asistate de calculator. Studiul oscilațiilor de torsiune și determinarea modului de forfecare <i>A. RUSU, C. PÎRȚAC, S. RUSU, V. TRONCIU</i>
Lucrări de laborator asistate de calculator. Verificarea teoremei lui Steiner cu ajutorul pendulului fizic <i>A. RUSU, C. PÎRȚAC, S. RUSU, V. TRONCIU</i>
ECG Modeling by 3D Visual Membrane Petri Nets <i>A. PROFIR, R. DAMASCHIN, L. PREPELITA</i>
Membrane Petri Nets Model Optimization using Methods of Functional Locations and Dynamic Priorities <i>A. PROFIR, R. DAMASCHIN, L. PREPELITA, B. YANG</i>
Patient-Specific Modeling by 2D and 3D Visual Membrane Petri Nets <i>A. PROFIR, L. PREPELIȚĂ, R. DAMASCHIN, B. YANG</i>

23 September 2011, 14⁰⁰ – 15⁰⁰

Section E: New technology for university education (ROOM: 3-210)	
Co-chairs:	<i>Tcaci Olga, Moldova</i>
De l'expérience – Exploitation des documents authentiques <i>O. TCACI, O. SEVERIN, D. ISTRATI, M. RUSU</i>	
15⁰⁰ – 15³⁰ – Coffee Break	

23 September 2011, 14⁰⁰ – 17⁰⁰

Section A, B, C, D, E: Posters presentation (ROOM: 3-3)	
Co-chairs:	<i>V. Ababii, Moldova A. Romanenco, Moldova B. Izvoreanu, Moldova</i>
Bobinaje pentru maşini electrice de curent continuu cu comutatoare erconice <i>E. CATLABUGA</i>	
Effect of cadmium doping on some properties of glass-insulated bismuth-based microwires <i>D. MEGLEI AND M.DYNTU</i>	
Thermoelectric Properties of Wires Bi ₂ Te ₃ in the Glass Coating p and n Type <i>D. MEGLEI, N. CUROSHU, I. STICH</i>	
MAD preparation of manganites based multilayered structures <i>O. SAPOVAL</i>	
Spectrele de rezonanță gama Mössbauer în antimonidul de galiu dopat cu Fe <i>E. GHEORGHITĂ, A. MIHĂLACHE, C. TURȚĂ</i>	
Investigation of thin optically anisotropic ZnO films placed in a strong uniform magnetic field <i>E. F. VENGER, A. I. IEVTUSHENKO, L. Yu. MELNICHUK, O. V. MELNICHUK</i>	
Atom–molecular conversion in regime of self-acquisition <i>A. P. ZINGAN, P. I. KHADZNI</i>	
Surface Plasmon Enhanced Luminescence from Au covered Titania Nanotubes burned in a Methane Flame <i>M. ENACHI</i>	
Efectul fotovoltaic si caracteristicile celulelor solare cu P-N joncțiune radială în nanofire <i>V. KANTSER, S. DRAGUTA</i>	
A model for failure nodes în wireless sensors networks (WSN) for military polygon monitoring <i>P. JUNIE, M. TERTISCO, C. EREMIA</i>	
Implementing a code analysis tool for Visual Studio 2010 <i>Y. HOHAN, L. LUCHIANOVA</i>	

<p>Технологический учёт энергоресурсов как средство оценки эффективности альтернативных источников энергии в автоматизированной системе Dekart SCADA Lovati <i>V. HEZHANOV, A. FLORJA, A. ROMAHENKO, I. BALMUŞ</i></p>
<p>Автоматизированная система Dekart SCADA “Lovati”, подсистема технологического учета тепла <i>V. HEZHANOV, A. FLORJA, A. ROMAHENKO, I. BALMUŞ</i></p>
<p>About possible methodology of information systems modeling using graph logic language <i>I. ORLOVSKI</i></p>
<p>Preprocesarea textelor în sistemele de tip „întrebare-răspuns”. <i>V. BOBICEV</i></p>
<p>Macromodelarea Invertoarelor și a Convertoarelor de Putere în Aplicația Matlab <i>E. CATLABUGA</i></p>
<p>Система мониторинга устьевых параметров скважин <i>V. СМЫСЛОВ, В. ЯКУНИН, И. БЕЛОЦЕРКОВСКИЙ, А. ЯКУНИН</i></p>
<p>Software Development for Research Support in Epilepsy <i>M. BUTNARU, A. CAPATANA, Gh. CAPATANA, O. COBILEANSCHI, A. POPOV</i></p>
<p>Metode utilizate la elaborarea unui sistem întrebare – răspuns (QA) <i>V. MAXIM</i></p>
<p>Alternatives to formal planning <i>O. DAVID</i></p>
<p>Componente Hardware Parametrizate pentru Rețele Neuronale Artificiale <i>V. CĂRBUNE, S. CHIRILA, M. PODUBNÎ</i></p>
<p>The advantages of the digital radio diagnostic devices implementation in m. Chisinau (Republic of Moldova) in 2009-2011 (first quarter) <i>A. ROSCA</i></p>
<p>Digital Systems Design Based on Hard Petri Nets Models <i>V. SUDACEVSCHI, V. ABABII</i></p>
<p>Дистанционное Управление Роботом на Базе Среды Проектирования LabVIEW <i>V. ABABII, V. SUDACEVSCHI, M. PODUBNII, V. NEGURA</i></p>
<p>Tehnici de Control a Proceselor Definite în Parametri de Timp <i>A. BORDIER, G.PANTAZ, I. CEBANU, L.CEBAN, C. ABABII</i></p>
<p>Sistem de înregistrare și prelucrare a semnalelor ECG și FPG pentru analiza Variabilității Ritmului Cardiac <i>V. ŞONTEA, A. IAVORSCHI, V. PAHOMI, V. PÎRȚAC, D. ANGHILOGLU</i></p>

<p>Evaluarea Disponibilității Agregate a Sistemelor de Calcul Orientate pe Servicii <i>I. ȚURCANU, E. GUȚULEAC, I. BALMUŞ</i></p>
<p>Knowledge Base as an important element of the question-answering system <i>T. PRODAN, V. LAZU</i></p>
<p>Contabilitatea Instituției de Cercetare în Sistemul Informațional “Universal Accounting” <i>A. AVORNIC, V. KANTSER, V. ȚURCANU</i></p>
<p>Determinarea proceselor în unele sisteme cu parametri distribuți și control discret impulsiv <i>Gh. CEBAN, I. BALMUS, R. MELNIC</i></p>
<p>Algoritmi de criptare și protocoale în REȚELELE DE NOUĂ GENERAȚIE (ngn) <i>D. PĂDURE, I. RUSU, N. PĂDURE, L. NEMERENCO</i></p>
<p>Dispozitiv de testare a rețelelor Locale de calculatoare <i>V. GÎSCĂ, A. ILIEV</i></p>
<p>Sistem de Monitorizare și Controlul a Nivelului Apei în Lacul “Ghidighici” <i>V. ABABII, V. SUDACEVSCHI, D. PALII, M. PODUBNII, I. CEBANU, Gh. PANTAZ, L. CEBAN</i></p>
<p>Redundanța HARDWARE <i>S. COJUHARI, R. MELNIC, Gh. CEBAN, A. PUTERE</i></p>
<p>Event-threading algorithm on modern database management systems <i>A. CHIOR</i></p>
<p>Data Encryption algorithms in C# language, based on bitwise “XOR” operator <i>M. KULEV, S. PERSIANOV</i></p>
<p>Development of a game software using the “Processing” language <i>S. BEȘLIU, M. KULEV</i></p>
<p>Developing games in C language using allegro.h graphics and sounds library <i>A. DVORAC, M. KULEV</i></p>
<p>Game Development in C# Programming Language, using Microsoft XNA <i>A. ȘCHIOPU, M. KULEV</i></p>
<p>The modern electronic techniques implementation of information technologies in administrative process from Health System of the REPUBLIC of MOLDOVA - opportunity problems of modern information technologies implementation in primary medical assistance <i>L. STADLER</i></p>

Dataflow programming using Qt framework <i>A. BALICA, M. KULEV, S. VIRTOSU</i>
15⁰⁰ – 15³⁰ – Coffee Break
Implementation of physical impact laws, using Processing graphic language <i>M. KULEV, V. LEDNIOV</i>
Programming of drilling machine with CPU controller <i>M. KULEV, E. LUCA</i>
Text processing for speech synthesis application <i>M. CHETRUŞCA, M. KULEV</i>
Implementation of recursion in the computer puzzle game Colorita <i>M. KULEV, D. MOCRII</i>
Conducerea unui Robot Autonom Mobil într-un Spaţiu cu Coordonate Relative <i>V. ABABII, V. SUDACEVSCHI, M. PODUBNÎI, V. CĂRBUNE, Gh. SAFONOV, L. CEBAN, C. ABABII</i>
O metodă de construire a tuturor acoperirilor neredundante existente de dependenţe funcţionale <i>D.SARANCIUC</i>
Modelarea matematică a hidrodinamicii şi dispersiei poluanţilor chimici în râuri <i>V. BEŞLIU, C. CIUFUDEAN, C. FILOTE, G. MARUSIC, V. MORARU, B. ŞTEFĂNESCU</i>

Earth Rover 2011 Competition Jury members	
President:	<i>Mr. David Anderson, USA</i>
Members:	<i>Mr. Corneliu Chişu, Canada Mr. Alexandru Mironov, Romania Mr. Sorin Repanovici, Romania Mr. Serghei Lysenko, Russian Federation</i>

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Earth Rover 2011 Competition (ROOM: 3-3) Public slideshow presentation of Projects (15 min for presentation)	
Co-chairs:	<i>I. Balmus, Moldova V. Ababii, Moldova R. Melnic, Moldova Gh. Ceban, Moldova A. Romanenco, Moldova L. Ceban, Moldova</i>
Team: “Suceava University”, Suceava, Romania	
Team: “Chernovtsy University”, Chernovtsy, Ukraine	
Team: “Odessa University”, Odessa, Ukraine	
Team: “Computer Sciences”, Chisinau, Moldova	
Team: “Microelectronics”, Chisinau, Moldova	
Team: „CMTC”, Chisinau, Moldova	

23 September 2011, 15⁰⁰ – 17⁰⁰

Earth Rover 2011 Competition
(field testing projects)
Public presentation of Projects
(20 min for presentation)

Co-chairs:	<i>I. Balmus, Moldova</i> <i>V. Ababii, Moldova</i> <i>R. Melnic, Moldova</i> <i>Gh. Ceban, Moldova</i> <i>A. Romanenco, Moldova</i> <i>M. Podubnii, Moldova</i> <i>V. Cărbune, Moldova</i> <i>S. Chirila, Moldova</i>
Team: “Suceava University”, Suceava, Romania	
Team: “Chernovtsy University”, Chernovtsy, Ukraina	
Team: “Odessa University”, Odessa, Ukraina	
Team: “Computer Sciences”, Chisinau, Moldova	
Team: “Microelectronics”, Chisinau, Moldova	
Team: „CMTC”, Chisinau, Moldova	

Notes