

The 45th anniversary of TUM

The 6th International Conference

Microelectronics and Computer Science

**October 1-3, 2009, Chisinau,
Republic of Moldova**

Conference Program

Technical University of Moldova, 2009

The Sponsors



**Organizing Committee of the 6th International Conference on
Microelectronics and Computer Science 2009 (ICMCS-2009)**

Address:

168, Stefan cel Mare av., MD-2004, Chisinau,
Republic of Moldova
Tel.: (037322)-509905, 509915
Fax: (037322)-509905
E-mail: icmcs@mail.utm.md
Web: <http://www.icmcs.utm.md>

The program contains the timetable of the Plenary Sessions and Conference Sessions of the Sixth International Conference on Microelectronics and Computer Science, Chisinau, Moldova, October 1-3, 2009.

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Conference Topics

Section	ROOM	Topics:
A.	3-224	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.	3-208	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.	3-3	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.	3-202	New technology for university education.
F.	3-104	The Exhibitions of Orange S.A.
G.	3-101	The Exhibition <i>AlliedTesting S.R.L.</i>
H.	3-114	The Exhibition RENAM Association

*6th International Conference on
Microelectronics and Computer Science*

October 3	October 2	October 1	September 30
		8.00 – 10.00 Registration of participants* 10.00 – 14.00 Opening and Plenary Session (ROOM: 1-1)* 9.00 - 20.00 Registration of participants (ROOM: 3-201)*	
	9.30 – 13.00 Oral sessions (A, B, C, D, E), Exhibitions (F, G, H)* 13.00 – 15.00 Lunch	13.00 – 15.00 Lunch	
10.00 – 16.00 A trip to Mănăstirea Hâncu	15.00 – 16.30 Oral sessions (A, B, C, D, E)*, Exhibitions (F, G, H)* 16.30-17.00 Closing of the Conference* (ROOM 3-3)	17.00 Departure of Participants	15.00 – 17.00 Exhibition (H) (ROOM: 3-114)* 15.30 – 18.00 Posters (ROOM: 3-3)*
			17.00 – 22.00 Visit to Cricova.

* str. Studenților, 7, Faculty of Informatics,

Microelectronics and Computer Science;

** bd. Ștefan cel Mare, 168.

SITE of the Conference

The **ICMCS-2009** conference will be held on October 1-3, 2009 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 microbuses Nr. 110, 111, 162, 119.

The conference will open at 10.00, on 1st of October.

Language

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

Available equipment

The conference rooms will contain the following equipment:

- Screen
- Video projectors
- PC

CONFERENCE PROGRAMME

<u>1 October 2009</u>	
8⁰⁰-10⁰⁰	Participant Registration
10⁰⁰-10¹⁰	Conference Opening Ion Bostan – Rector of the Technical University of Moldova
Welcome Speeches (ROOM: 1 – 1)	
10¹⁰-10⁴⁰	Gheorghe Duca – President of the Academy of Sciences of Moldova
	Ion Ababii – Rector of the Medicine University of Moldova
	Valeriu Kantser – President of the Supreme Council for Accreditation and Attestation of the Republic of Moldova
	Grigore Belostecinic – Rector of the Academy of Economic Study of Moldova
	Alexandru Oleinic – Minister of Information Technologies and Communications
	Leonid Bujor - Minister of Education
	Ludmila Climoc – General Director, Orange Moldova
	Eugen Galamaga - General Director, Allied Testing, Moldova
	Alexandru Donos - General Director, CTS, Moldova
	Alexandru Machedon - General Director, StarNet, Moldova

PLENARY SESSION (ROOM: 1-1)	
Co-chairs:	<i>I. Bostan, Moldova I. Tiginyanu, Moldova</i>
10⁴⁰-11⁰⁰	State Program “Nanotechnologies and Nanomaterials” <i>Acad. Ion Tiginyanu (Moldova)</i>
11⁰⁰-11²⁰	The RENAM Public Association <i>Acad. Andrei Andriesh (Moldova)</i>
11²⁰-11³⁰	The RENAM Award Ceremony <i>Acad. Ion Ababii, dr. Grigore Secraru (Moldova)</i>
11³⁰-11⁴⁵	Elaborarea suportului științific și tehnologic al Societății Informaționale în R.M. <i>Acad. Constantin Gaindric (Moldova)</i>
11⁴⁵-12⁰⁰	Impact Project NATO of the development infrastructure RENAM – moldovien NREN. <i>prof. Erich Peplow, (Germania)</i>
12⁰⁰-12¹⁵	State Program “Engineering and Electronic Technologies” <i>Prof. Anatol Sidorenko (Moldova)</i>
12¹⁵-12³⁰	GEANT –RoEduNet-RENAM <i>Prof. Octavian Rusu (România)</i>
12³⁰-12⁴⁵	Criteriile de atestare a cadrelor științifice <i>Acad. Valeriu Kantser (Moldova)</i>
12⁴⁵-13⁰⁰	Radiation Effects in Low Dimensional Semiconductor Structures <i>Nikolai A. SOBOLEV (Portugal)</i>
13⁰⁰-15⁰⁰	LUNCH

1 October 2009, 15⁰⁰ – 17⁰⁰

Section A, B, C, D, E: Posters

(ROOM: 3-3)

Co-chairs:	<i>V. Ababii, Moldova A. Romanenco, Moldova</i>
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Section A: Micro-Opto-Electronics

Dispozitiv pentru terapia fotodinamică anti – microbiană
*Iurie Nica, Leonid Pogoreliski, Evgheny Maximov, Valeriu Cebotari,
Constantin Iavorschi*

Section B: Nano-Science and Nanotechnology

**Implementarea litografiei cu sarcină de suprafață pentru mezo-
și nanostructurarea arseniului de galu**
Corduneanu Alexandru

**High aspect ratio self ordered alumina nanotubes, SEM and
EDX characterization**
Enachi Mihail

**The effects of deposition potential and H₂O₂ concentration
on electrochemically grown ZnO**
Alexandru Burlacu

**Comparison of Morphologies of Porous InP Layers Obtained in
Different Electrolytes**
*V. SPRINCEAN, A. COJOCARU, E. MONAICO, I. TIGINYANU, H.
FÖLL*

**Photoluminescence of ZnTe nanowires prepared by
electrochemical etching of bulk ZnTe**
*E. MONAICO, V. COSEAC, V.V. URSAKI, N.N. SYRBU, I.M.
TIGINYANU*

**Filiform nanoarchitectures consisting of arrays of highly
integrated Bi nanowires in glass envelopes**
*V. POSTOLACHE, A. IOISHER, E. MONAICO, E. ADINTER, I.M.
TIGINYANU*

Section C: Computer Science
A brief history of the study of word-formation. Some basic concepts. <i>Svetlana Caterenciuc</i>
Event-threading calculation algorithm complexity estimation <i>Alexandr CHIOR</i>
Analiza Algoritmilor de Segmentare a Imaginilor pentru Aplicații de timp real <i>Igor Calmîcov</i>
Использование автоподстройки для повышения точности фотоэлектрических преобразователей перемещений <i>Валерий ДРАГОНЕР, Галина МАРУСИК</i>
Creating a benchmark using C memory allocation functions <i>Lopatenco Andrei, Kulev Mihail</i>
Development of simple and relatively strong encryption algorithm using combination of XOR and bit shifting <i>Lisnic Andrei</i>
Реконфигурированные структуры для систем контроля нечеткой логики <i>Лилия Ромару, Сергей Запорожсан</i>
Development of a Data Base in C language, using multiple linked list <i>M.Kulev, S.Ernu</i>
Analysis and Design of a Specialized Pipeline for Numerical Algorithms Implementation <i>Viorel Carbune, Sergiu Zaporojan</i>
ОПЫТ ПРИМЕНЕНИЯ ПАКЕТА MATLAB В УЧЕБНОМ ПРОЦЕССЕ НА КАФЕДРЕ “АВТОМАТИКА И ИНФОРМАЦИОННЫЕ ТЕХНОЛОГИИ” <i>Ion Balmuș, Gheorghe Ceban, Alexandr Romanenko</i>
ОСОБЕННОСТИ АЛГОРИТМА УПРАВЛЕНИЯ НАГРЕВАТЕЛЕМ ПРОМЫШЛЕННЫХ ИНКУБАТОРОВ <i>С. Тинкован, Т. Шестакова</i>
Organizarea Transferului de Date Concurrent în Baza Modelelor RPH <i>Victor ABABII, Viorica SUDACEVSCHI</i>

<p>Proiectarea Sistemelor de Transfer Bidirectional de Date în Baza Rețelelor Petri Hard <i>Viorica SUDACEVSCHI, Victor ABABII</i></p>
<p>Quelques idées sur la linguistique informatique <i>Olga Tcaci, Olga Severin, Daniela Istrati</i></p>
<p>АЛГОРИТМИЗАЦИЯ И ПРОГРАММИРОВАНИЕ РАСПРОСТРАНЕННОГО СБАЛАНСИРОВАННОГО АЛГОРИТМА УПРАВЛЕНИЯ МОЩНОСТЬЮ В СТАНДАРТАХ CDMA <i>Евдокимов Радамес</i></p>
<p>ПРИЧИНЫ НЕОБХОДИМОСТИ УПРАВЛЕНИЯ МОЩНОСТЬЮ В СТАНДАРТАХ CDMA <i>Евдокимов Радамес, Романенко Александр</i></p>
<p>De l'expérience – La détection des virus <i>Olga Tcaci, Olga Severin, Daniela Istrati</i></p>
<p>SENSITVITY ANALYSIS OF BAYESIAN NETWORKS IN COTS- BASED SOFTWARE DEVELOPMENT <i>Yousef DARADKEH, A. BORDIER</i></p>
<p>РАЗРАБОТАКА СИМВОЛОВ ЛЭП ДЛЯ ARCGIS 9.3 <i>Liudmila Duca, Vladimir Frasiniuc, Alexandr Romanenco</i></p>
<p>Generatoare de Sisteme Expert: Modele Neurale <i>Gheorghe Căpățâna</i></p>
<p>MAJOR REQUIEREMENT AT THE CURRENT STAGE OF THE REPUBLIC OF MOLDOVA HEALTHCARE SYSTEM REFORMING - OPORTUNITY PROBLEMS OF MODERN INFORMATION TECHNOLOGIES MPLEMENTATION IN PRYMARY MEDICAL ASSISTANCE <i>Lucia STADLER</i></p>
<p>Section D: Electronics and Communications</p>
<p>ЭЛЕКТРОННЫЕ ДАТЧИКИ ДЛЯ ИЗМЕРЕНИЯ ДАВЛЕНИЯ И ТЕМПЕРАТУРЫ В АВТОМАТИЗИРОВАННЫХ СИСТЕМАХ <i>Владимир Смыслов, Владимир Якунин, Игорь Белоцерковский, Елена Скутельник</i></p>

2 October 2009, 9³⁰ – 12⁰⁰

Section A: Micro-Opto-Electronics	
(ROOM: 3-224)	
Co-chairs:	<i>V. Șontea, Moldova V. Tronciu, Moldova</i>
Dynamics and stability improvement of DFB tapered master-oscillator power-amplifiers	
<i>V.Z. Tronciu, M. Lichtner, M. Radziunas, U. Bandelow, and H. Wenzel</i>	
Исследование поверхностных поляритонов ZnO в сильном однородном магнитном поле	
<i>Венгер Е.Ф., Евтушенко А.И., Мельничук Л.Ю., Мельничук А.В.</i>	
Numerical Analysis of the Non-cooled Infra-red Sensors based on Different Thermoelectric Wires or Films	
<i>Iacob Kerner</i>	
Chemical Deposition of Photosensitive Media for Recording of the Optical Information	
<i>V. I. Verlan, S. A. Buzurniuc</i>	
Natural Ferromagnetic Resonance in Microwires	
<i>Serghei Baranov</i>	
Properties of Fe-based Microwires	
<i>Serghei Baranov</i>	
Optical characterization of Mo_{1-x}W_xS₂ single crystals	
<i>Dumitru DUMCENCO, Ying-Sheng HUANG, Ching-Hwa HO, Andrei COLEV, Cornel GHERMAN, Leonid KULYUK, Kwong-Kaw TIONG</i>	
Chemical Method for the Gallium Arsenide Rectification Structure Divide into Crystals	
<i>BARANOV Simion, CINIC Boris, DUDCA Tudor and SUMAN Victor</i>	
Exciton Spectra of CuAlS₂ and CuAlSe₂ Crystals	
<i>N.N. Syrbu, V.V. Ursaki, A.Dorogan, I.Galbic, B.V.Korzun, A. A. Fadzeyeva, R. R. Mianzelen</i>	

Effect of temperature on the photodissolution of silver in arsenic threesulphide <i>Dumitru TSIULYANU, Ion STRATAN</i>
Filters with Optical Isotropic Wavelength <i>N.N. Syrbu, A.Dorogan, I.Stamov</i>
LOCAL HYPERTERMIA IN CROSSED LASER FLUXES <i>Iurie Nica, Serghei Zavrajnii, Victor Cojocaru</i>
Mecanismul de transport al curentului și luminescența structurilor Pd-ZnSe <i>Roman SCURTU, Petru GAŞIN, Andrei COVALI</i>
Analytical Modeling and Optimization of Micro-piezoelectric Energy Harvesting Devices <i>Mohammed A Al-Ajmi</i>
Relaxarea de spin în monocristalele de antimonid de galiu dopate cu fier <i>Eugen GHEORGHIȚĂ, Felicia ERMALAI, Valeriu CANTER</i>
Structura Spectrelor de Iradiere ale Antimonidului de Galiu Dopat cu Fier pentru Diapazonul Spectral (0,8÷0,812)Ev <i>Eugen Gheorghită, Leonid Guțuleac, Victoria Melinte</i>
Thermoelectric Properties of Bi microwires at Low Temperatures <i>Leonid KONOPKO</i>
Electrical behavior of the CdTe heterojunction cells fabricated on polyimide substrates <i>Tamara Potlog, Nicolae Spalatu</i>
Mecanismul și rolul factorului cuantic în procesul de difuzie stimulată de fotoni a Zn în GaAs și InP <i>Sergiu Șișianu</i>

2 October 2009, 14⁰⁰ – 17⁰⁰	
Section A: Micro-Opto-Electronics (ROOM: 3-224)	
Co-chairs:	<i>E. Gheorghiță, Moldova B. Mironov, Moldova</i>
Structura spectrelor de iradiere a politipului $ZnIn_2S_4$ la 80 K	
<i>E. Aramă, E. Gheorghiță, V. Pîntea</i>	
Influence of Transversal Constant Electric Field on Mobility in Parabolic Quantum Well	
<i>E. P. SINEAVSKII and S.A.KARAPETYAN</i>	
Radiation Effects in Low Dimensional Semiconductor Structures	
<i>Nikolai A. SOBOLEV</i>	
Selective Photoreceivers with Modulated Sensibility	
<i>Valerian DOROGAN, Tatiana VIERU, Stanislav VIERU, Andrei DOROGAN</i>	
Infrared system for control of Postoffice Messages	
<i>A. SOCROVISCHIUC, A. PREPELITSA , V. COJOCARU, A. SURDU, E. ANTROPOV, R. MORARI, E. Zasavitsky, B. BANDURYAN, M. BAZALEEV, V. KLEPIKOV, V. LYTVYNENKO, A. SIDORENKO</i>	
Structura spectrelor de reflexie ale antimonidului de galiu dopat cu fier	
<i>Eugen GHEORGHIȚĂ, Olga ZLOTEA, Pantelei UNTILĂ</i>	
Absorption and Emission Spectra of $Ga_{0.017}Ge_{0.25}As_{0.083}S_{0.65}$ Glasses Doped with Dy^{3+}	
<i>Elena LUPAN, Viorel CIORNEA, Mihail IOVU</i>	
Light Induced Modification of the Refractive Index of $Sb_2Se_3:Sn$ Thin Films	
<i>M.A.IOVU, D.V.HAREA, O.IASENIUC, E.P.COLOMEICO,</i>	

<p><i>A.MESHALKIN, M.S.IOVU</i></p>
<p>Application of Undular Analysis for Description of the Physical Phenomena</p>
<p><i>Bettin MIRONOV</i></p>
<p>ANALYTICAL MODELING OF ENERGY QUANTIZATION EFFECTS IN MOSFETS</p>
<p><i>Amit Chaudhry, J.N. Roy</i></p>
<p>Supraconductibilitate și feromagnetism în bicristale și tricristale ale aliajelor Bi-Sb</p>
<p><i>F. M. Muntyanu, V. Chistol</i></p>
<p>ASPECTS OF APPLICATION OF THE IMPEDANCE SIMULATORS FOR IMPEDANCE MEASUREMENT</p>
<p><i>Vitalie NASTAS</i></p>
<p>Măsurarea impedanței în coordonate Carteziene prin metoda rezonanței simulate</p>
<p><i>Vitalie NASTAS, Pavel NICOLAEV</i></p>
<p>Fault Models for Phase Change Memory</p>
<p><i>Mohammad Gh. Mohammad</i></p>
<p>Generalized hyperbolic model for $I-V$ characteristic of semiconductor devices</p>
<p><i>Alexandr Penin, Anatoli Sidorenko</i></p>
<p>Evolution of the Quantum States Superposition in Donor-Acceptor Pair under Periodic Electric Field</p>
<p><i>O.V. Yaltychenko</i></p>
<p>Effects of γ – irradiation on ZrO_2 properties</p>
<p><i>Sergiu T. Shishyanu, Valentin K. Gueorguiev, Ercan Yilmaz, Rasit Turan, Teodor S. Shishyanu</i></p>
<p>INFLUENȚA DEFORMAȚIILOR ANIZOTROPICE ASUPRA REZistențEI ELECTRICE A MONOCRISTALELOR DIN BISMUT</p>
<p><i>V. Cheptea, A. Nicorici, A. Rusu, A. Todosiciuc</i></p>
<p>OSCILLATIONS OF KINETIC COEFFICIENTS OF SEMIMETALS</p>
<p><i>P. Bodiu, N. Dragutsan, and S. Cotyrshev</i></p>

2 October 2009, 9³⁰ – 13⁰⁰

Section B: Nano-Science and Nanotechnology	
(ROOM: 3-208)	
Co-chairs:	<i>A. Casian, Moldova V. Sprincean, Moldova</i>
Sinteza și proprietăile optice ale soluțiilor coloidale de nanocristalele de PbS <i>Anatolie MITIOGLU, Anatolie GAVRILUȚA, Renata LASCOVA, Cornel GHERMAN</i>	
Porous morphologies in Si, III-V and II-VI compounds: a comparative study <i>S. Langa, E. Monaico, H. Föll and I.M. Tiginianu</i>	
Modeling of Electronic Thermal Conductivity in Quasi-One-Dimensional Organic Crystals <i>Anatolie CASIAN, Ion BALMUS, Zinovi DASHEVCKY, Viorel DUSCIAC, Radu DUSCIAC</i>	
Нанотехнологическая идентификация материальных ресурсов <i>Бучаки П.А., Ромару О.М., Тигиняну И.М., Шкилев В.Д.</i>	
Observation of Quantum Oscillations in Single Crystal Bi Nanowires <i>Leonid KONOPKO</i>	
Zinc Oxide – The Material of Future Optoelectronics and Photonics <i>I.M. TIGINIANU, V.V. URSAKI, and E.V. RUSU</i>	
Electrochemically Nanostructured ZnSe for Photonic and Optoelectronic Applications <i>I.M. TIGINIANU, E. MONAICO, V.V. URSAKI, G. COLIBABA, D.D. NEDEOGLU, N. LEPOORDA</i>	

High quality Nb and Nb/CuNi nanolayers for superconducting spintronics <i>V. ZDRAVKOV, R. MORARI, E. ANTROPOV, A. PREPELITSA, A. SOCROVISCIUC, A. SURDU, V. COJOCARU, A. SIDORENKO</i>
Supraconductibilitate și ferromagnetism în bicristale și tricristale ale aliajelor Bi-Sb <i>F. M. Muntyanu, V. Chistol</i>
Nonmonotonic behaviour of superconducting critical temperature of Nb/CuNi bilayers with a nanometer range of layer thickness <i>R. MORARI, V. I. ZDRAVKOV, E. ANTROPOV, A. SOCROVISCIUC, A. PREPELITA, L. R. TAGIROV, Mu. Yu. KUPRIYANOV, A. S. SIDORENKO</i>
Nanostructuri de GaN în calitate de senzori de gaze <i>Olesea Volciuc</i>
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**СТРУКТУРНОЕ ПОСТРОЕНИЕ И КОНСТРУКЦИЯ
МОЛДАВСКОГО СТУДЕНЧЕСКОГО
МИКРОСПУТНИКА**

*Ион Бостан, Валерий Блинов, Валерий Блажса, Михаил Владов,
Дмитрий Добров, Валерий Канцер, Николай Секриеру, Даниил
Украинцев*

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Валерий Блинов

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