

**The 50th anniversary of Computers, Informatics and
Microelectronics Faculty
&
Electronics and Telecommunications Faculty**

**Technical University of Moldova
&
Academy of Science of Moldova**

**The 9th International Conference
“*Microelectronics and
Computer Science*”
&
The 6th Conference
of *Physicists of Moldova***

Conference Program

**October 19-21, 2017, Chisinau,
Republic of Moldova**

**TUM & ASM & MPS
2017**

*The 9th International Conference on Microelectronics and Computer Science &
The 6th Conference of Physicists of Moldova,
Chişinău, Republic of Moldova, October 19-21, 2017*

**Organizing Committees of the 9th International Conference
on Microelectronics and Computer Science & the 6th
Conference of Physicists of Moldova (ICMCS-2017 & CPM-
2017)**

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The program contains the timetable of the Plenary Sessions and Conference Sessions of the **9th International Conference on Microelectronics and Computer Science & the 6th Conference of Physicists of Moldova**, Chisinau, Moldova, October 19-21, 2017.

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The Organizing Committee of the **9th International Conference on Microelectronics and Computer Science & the 6th Conference of Physicists of Moldova** highly appreciates the financial and technical support provided by the following agencies and enterprises:

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ICMCS-2017 and CPM-2017 Conference Topics

Sec.	ROOM	Topics:	Page
1.	Tekwill	BSUN Executive Board Meeting	14
2.	3-3	BSUN Workshop	15
3.	3-414	Nanoscience and nanotechnology	17
4.	3-214	Micro-opto-electronics	19
5.	3-701	Communication and electronic systems	22
6.	3-215	Computer Sciences and Networks & Cyber Security	23
7.	3-709	Biomedical Engineering	28
8.	3-609	New technologies for university education	29
9.	3-114	RENAM WorkShop	30
10.	3-318	Human Social Sciences	31
11.	3-201	Fizica Stării Condensate și Ingineria Materialelor	32
12.	3-201	Fizica Teoretică și Computațională	33
13.	3-203	Tehnologiile Fizice și Ingineria Dispozitivelor	34
14.	3-Hall	Posters Presentation	35

9th International Conference on Microelectronics and Computer Science & the 6th Conference of Physicians of Moldova

October 18	<p>9.00 - 20.00 Registration of participants (ROOM: 3-208)*</p>		
October 19	<p>8.30 – 10.00 Registration of participants** 10.00 – 13.00 Opening and Plenary Session** (TekWill)</p>	<p>13.00 – 14.00 Lunch</p>	<p>14.00 – 17.45 Plenary Session & Oral sessions</p> <p>18.00-21.00 Banquet* (Restaurant)</p>
October 20	<p>9.30 – 13.00 Oral sessions*,</p> <p>10.00 – 12.30 Posters, 3-Hall</p>	<p>13.00 – 14.00 Lunch</p>	<p>(ROOM: 3-3)*</p> <p>14.00 – 16.00 Oral sessions</p> <p>16.30 – 17.30 Close of Conference (ROOM: 3-3)*</p>
October 21	<p>10.00 – 17.00 Individual Cultural Program</p>		

* str. Studentilor, 9/7, Faculty of Computer Science,
Informatics and Microelectronics

** Studentilor, 9/11, TekWill ICT Excellence Center

*The 9th International Conference on Microelectronics and Computer Science &
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SITE of the Conference

The **ICMCS-2017** conference will be held on October 19-21, 2017 at the Campus of Technical University of Moldova Faculty of Computer Science, Informatics and Microelectronics, 9/7, Studenţilor street, Chisinau, Republic of Moldova.

Your way to the conference hall is either by trolley-bus Nr. 10, 11 or minibuses Nr. 112, 119, 140, 162, 186.

The conference will open at 10.00 19th of October, 2017.

Address:

TekWill ICT Excellence Center, 9/11, Studenţilor street, Chisinau, Republic of Moldova.

Language

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

Presentation should keep not more than 15 min.

Available equipment

The conference rooms will contain the following equipment:

- Screen
- Video projectors
- PC

CONFERENCE PROGRAMME

<u>19 October 2017</u>	
8³⁰-10⁰⁰	Participant Registration (TekWill ICT EC)
10⁰⁰-10¹⁰	Conference Opening (TekWill ICT EC) Prof. Dr. Viorel BOSTAN – <i>Rector of the Technical University of Moldova</i>
<u>Welcome Speeches</u> (TekWill ICT EC)	
10¹⁰-10³⁰	Monica BABUC - <i>Minister of Education, Culture and Research</i>
	Octavian CALMÎC - <i>Minister of Economy and Infrastructure</i>
	Academician Ion BOSTAN - <i>ex-Rector of the Technical University of Moldova</i>
	Prof. Dr. Eden MAMUT - <i>BSUN Secretary General</i>
	Academician Ion TIGHINEANU – <i>Vice President of the Academy of Sciences of Moldova</i>
PLENARY SESSION (TekWill ICT EC)	
Co-chairs:	<i>I. Tighineanu L. Culiuc</i>
10³⁰-11⁰⁰	Keynote speech – <i>Dr. Angeles RODRIGUEZ – PENA, Former President of COST Committee of Senior Officials (TBC)</i>
11⁰⁰ – 11³⁰ – Coffee Break	

*The 9th International Conference on Microelectronics and Computer Science &
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Chişinău, Republic of Moldova, October 19-21, 2017*

Co-chairs:	<i>L. Culiuc V. Tronciu</i>
11³⁰-13⁰⁰	<i>Competition in Modern Electronics: GaN against Si Acad. Ion TIGHINEANU</i>
	<i>Sensors Nano-Technology Prof. Oleg LUPAN</i>
	<i>From Faculty of Electrophysics to Faculty of Computers, Informatics and Microelectronics Ion BALMUŞ, Victor ŞONTEA</i>
13⁰⁰-14⁰⁰	LUNCH

BSUN Executive Board Meeting Technical University of Moldova, Chisinau, Moldova October 19th 2017, Tekwill, University Campus	
11:30	<p>BSUN Executive Board - Opening session:</p> <ul style="list-style-type: none"> • <i>Prof. Dr. Viorel BOSTAN, Rector of Technical University of Moldova</i> • <i>Prof. Dr. Giga ZEDANIA, Rector of Ilia State University</i> • <i>Prof. Dr. Vladimir BUMBASIREVIC, Rector of the University of Belgrade</i> • <i>Prof. Dr. Pericles MITKAS, Rector of Aristotle University of Thessaloniki</i>
12:00	<p>State of the art of the BSUN activities:</p> <ul style="list-style-type: none"> • <i>Prof. Dr. Eden MAMUT, BSUN Secretary General</i> • <i>Open Discussion</i>
13:00	Lunch
14:00	<p>Defining the BSUN strategic priorities:</p> <ul style="list-style-type: none"> • <i>Cooperation on Joint Education Programmes</i> • <i>Internationalisation of the BSUN member Universities</i> • <i>Development and operation of large Education and Scientific Research Infrastructures</i>
15:30	Coffee break
16:00	<p>Defining the BSUN strategic priorities:</p> <ul style="list-style-type: none"> • <i>Joint activities on Frontier Research</i> • <i>Models for university - industry cooperation</i> • <i>Best practices on University Management</i>
17:30	Closure

<p>BSUN Workshop on: “Interuniversity Cooperative Activities on Satellite Data Procession and Space Technologies” Technical University of Moldova, Chisinau, Moldova October 20th 2017, bloc studii nr. 3, aula 3-3</p>	
10:00	<p>Opening session:</p> <ul style="list-style-type: none"> • <i>Prof. Dr. Viorel BOSTAN, Rector of Technical University of Moldova</i> • <i>Dna Monica BABUC, Ministru al Educației, Culturii și Cercetării</i> • <i>Prof. Dr. Vorelia Moldovan BĂTRÎNAC, Consilier principal de stat al Prim-ministrului pe politici societale</i> • <i>Dr. Razvan MATEESCU, COSMOMAR Centre, Constanta, Romania</i> • <i>Prof. Dr. Alim Rusten ASLAN, Istanbul Technical University</i>
11:00	<p>Keynote speech - Dr. Alain GACHET, President of Radar Technologies International, France (TBC)</p>
11:20	<p>Presentation of the World Data Center and current projects in the field on data processing and space technologies at Kiev Politechnic Institute <i>Acad. Michail ZGUROVSKI, Rector of NTUU “Igor Sikorsky Polytechnic Institute”</i></p>
11:35	<p>Presentation of the satellite tracking facilities at Technical University of Moldova <i>Acad. Ion BOSTAN, Director CNTS, Technical University of Moldova</i></p>

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12:00	<i>Visit of the satellite tracking facilities at Technical University of Moldova</i> <i>Prof. Nicolae SECRIERU, Vice director CNTS, Technical University of Moldova</i>
13:00	Lunch
14:00	<i>Presentations:</i> <ul style="list-style-type: none"> • <i>Prof. Alim Rusten ASLAN - Presentation of the activities on space technologies at Istanbul Technical University of Turkey</i> • <i>Dr. Razvan MATEESCU - Presentation of the COSMOMAR – Constanţa Space Technologies Centre</i> • <i>Dr. Alexandru Pandele - Presentation of ISS (ROSA) "SBAS use opportunities for maritime and river navigation".</i>
15:30	Coffee break
16:00	<i>Open session for proposals on cooperative activities</i>

<u>Section: Nanoscience and nanotechnology</u>	
<u>19.10.2017, 14.00 – 15.30, ROOM: 3-414</u>	
Co-chairs:	<i>O. Lupan</i> <i>V. Ursaki</i>
1.	Pulsed Electroplating of Metal Nanoparticles form DODUCO Electrolytes <i>Eduard MONAICO, Oana BRINCOVEANU, Raluca MESTERCA, Veaceslav URSAKI, Mariana PRODANA, Marius ENACHESCU, Ion TIGINYANU</i>
2.	Gas sensors based on optical fiber coated with nanocrystalline TiO₂ and nanofibrous ZnO <i>Lidia GHIMPUR, Irina PLESCO, Veaceslav URSAKI, Ion TIGINYANU, Mauro ZARRELLI, Aldobeneddetto ZOTTI, Anna BORRIELLO</i>
3.	Hydrogen detection by individual Pd-modified ZnO nanowire <i>Oleg LUPAN, Thierry PAUपोर्टÉ, Vasile POSTICA, Bruno VIANA, Rainer ADELUNG, Lee CHOW, Ion TIGINYANU</i>
4.	Pd-doped ZnO nanostructured films for multifunctional applications <i>Vasile POSTICA, Mathias HOPPE, Rainer ADELUNG, Thierry PAUपोर्टÉ, Nicolai ABABII, Viorel TROFIM, Victor SONTEA, Oleg LUPAN</i>
5.	Influence of TiO₂ Ultra-Thin Films on Gas Sensing Properties of CuO:Zn <i>Nicolai ABABII, Tim REIMER, Vasile POSTICA, Mathias HOPPE, Steffen CHEMNITZ, Victor SONTEA, Wolfgang BENECKE, Rainer ADELUNG, Oleg LUPAN</i>

6.	The quantum dynamics of a nanomechanical resonator coupled to two quantum dots <i>Victor CEBAN, Mihai MACOVEI</i>
7.	Fabrication of Porous Nanostructures by Design <i>Eduard MONAICO, Elena MONAICO, Veaceslav URSAKI and Ion TIGINYANU</i>
8.	Sinteza și depunerea electroforetică a nanocompozitului CdSe/ZnS/PVP <i>Alexandra MÎRZAC, Tatiana GUȚUL, Evghenii GUȚUL</i>
<u>15.30 – 16.00</u>	Coffee Break

Section: Nanoscience and nanotechnology

19.10.2017, 16.00 – 17.45, ROOM: 3-414

Co-chairs:	<i>O. Lupan</i> <i>V. Ursaki</i>
1.	Термоэлектрические свойства нанонитей теллурида висмута, изготовленных усовершенствованным методом Улитовского-Тейлора <i>Альбина НИКОЛАЕВА, Леонид КОНОПКО, Драгош МЕГЛЕЙ, Светлана АЛЕКСЕЕВА</i>
2.	Influence of Metal Deposition on Electrochemical Impedance Spectra of Porous GaP and GaN Semiconductors <i>Liana ANICAI, Florentina GOLGOVICI, Eduard MONAICO, Veaceslav URSAKI Mariana PRODANA, Marius ENACHESCU, Ion TIGINYANU</i>
3.	Mechanisms of Energy Loss of Fast Electrons (1-100 keV) in Semiconductors and Dielectrics and Their Impact on Efficiency of Cathodoluminophores <i>Dmitry OZOL</i>
4.	On a Possible Self-Organization in a System of ZnO Colloidal Quantum Dots <i>I.I. Geru, G.F. Volodina, S.D. Tiron</i>

5.	Свойства Плёночных Монокристаллов в Магнитном Поле <i>Иван ПОПОВ, Евгений МОЛОШНИК, Геннадий РАСТЕГАЕВ</i>
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<u>Section: Micro-opto-electronics</u>	
<u>19.10.2017, 14.00 – 15.30, ROOM: 3-214</u>	
Co-chairs:	<i>V. Tronciu</i> <i>S. Rusu</i>
1.	Microwire measurement device Valerian DOROGAN, Eugeniu MUNTEANU, Sergiu ZAPOROJAN, Sergiu TINCOVAN, Vitalie SECRIERU, Dumitru GORGAN
2.	Термоэлектрическая эффективность полупроводниковых нитей $\text{Bi}_{1-x}\text{Sb}_x$ <i>Иван ПОПОВ, Павел БОДЮЛ, Евгений МОЛОШНИК, Георгий ПАРА, Евгений ИСТРАТИЙ</i>
3.	Quantum Interference and Surface States Effects in Topological Insulator $\text{Bi}_{0.83}\text{Sb}_{0.17}$ Nanowires <i>Leonid KONOPKO, Albina NIKOLAEVA, Tito HUBER</i>
4.	Features of luminescence in semiconductor quantum wires in external electric and magnetic fields <i>Elerlange SINYAVSKY, Nina KOSTYUKEVICH</i>
5.	Influence of thickness and polarization on diffraction efficiency of direct patterned diffraction gratings in carbazole-based azopolymer films <i>Constantin LOSMANSCHII, Alexei MESHALKIN, Elena ACHIMOVA, Vladimir ABASHKIN, Alexandr PRISACAR, Cazac VERONICA, Serghei POGREBNOI, Fliur MACAEV</i>
6.	Sincronizarea laserelor semiconductoare cu mediu activ puncte cuantice <i>Tatiana OLOINIC, Constantin PÎRȚAC, Spiridon RUSU, Vasile TRONCIU</i>
7.	Fiber Optic Speckle Interferometry for Intrusion Monitoring Systems

	<i>I. CULEAC, V. BORSCIOV, V. VERLAN, I. COJOCARU, M. IOVU, V. CIORNEA, A. BUZDUGAN</i>
8.	The self-mixing interferometer setup modeled by optical soft <i>Elena ACHIMOVA</i>
9.	Optical fibers and dispersion in optical fibers Types of dispersion <i>Pavel MOROZAN, Serafima SOROCHIN, Arina LACHI, Lilia SAVA</i>
10.	Possibilities to Improve the Thermoelectric Properties of <i>n</i>-type Organic Crystals <i>Anatolie CASIAN, Ion BALMUŞ, Ionel SANDULEAC</i>
11.	Metal-Insulator Transition of Peierls Type in TTT_2I_3 Crystals in 3D Approximation <i>Silvia ANDRONIC, Ion BALMUŞ, Anatolie CASIAN</i>
<u>15.30 – 16.00</u>	Coffee Break

<u>Section: Micro-opto-electronics</u>	
<u>19.10.2017, 16.00 – 17.45, ROOM: 3-214</u>	
Co-chairs:	<i>V. Tronciu</i> <i>S. Rusu</i>
1.	Нелинейное пропускание тонкой полупроводниковой пленкой двух ультракоротких импульсов лазерного излучения в экситонной области спектра и в области экситон – биэкситонной конверсии <i>A.B. КОРОВАЙ, А.Г. МАНГИР, П.И. ХАДЖИ</i>
2.	Radiative Transitions in Sm^{2+} Doped ZnAl_2Se_4 and KCl Crystals <i>Andrew TIRON, Victor ZALAMAI, Emil RUSU, Nicolae SYRBU, Nicolae BEJAN</i>

3.	<p>Resonance Raman Scattering and Excitons Optical Orientation in CuGaSe₂ Crystals <i>Victor ZALAMAI, Nicolae SYRBU, Andrew TIRON, Valerian DOROGAN</i></p>
4.	<p>Теория ангармонических Болховских осцилляций в массиве световодов <i>Olesya KOROVAI, Pyotr KHADZHI</i></p>
5.	<p>Динамика Экситон-Диполяритонов в Режиме Параметрического Осциллятора <i>Петр ХАДЖИ, Ольга ВАСИЛЬЕВА, Виталий ВАСИЛЬЕВ</i></p>
6.	<p>Detection in the contacts with bismuth-antimony alloy: influence of the free electrons concentration on the current responsivity <i>Iacov KERNER</i></p>
7.	<p>Synthesis and luminescent properties of ligand-Europium(III) Coordination Compounds <i>V. I. VERLAN, O. T. BORDIAN, M. S. IOVU, I. P. CULEAC, V. E. ZUBAREVA, L.A. MALAHOV</i></p>
8.	<p>GaP: Long-Term Evolution of Properties and New Prospects for Optoelectronics <i>Sergei L. PYSHKIN and John M. BALLATO</i></p>
9.	<p>Phase Grating Application for Digital Holographic Imaging <i>Alexei MESHALKIN, Veronika KAZAK, Igor SHEVKUNOV, Elena ACHIMOVA, Vladimir ABASHKIN, Vladimir KATKOVNIK</i></p>

<u>Section: Communication and electronic systems</u>	
<u>19.10.2017, 14.00 – 15.30, ROOM: 3-701</u>	
Co-chairs:	<i>N. Secrieru</i> <i>I. Avram</i>
1.	Dezvoltarea Tehnologiilor Satelitare în Cadrul Universităţii Tehnice a Moldovei <i>Ion BOSTAN, Viorel BOSTAN, Nicolae SECRIERU, Sergiu CANDRAMAN, Andrei MARGARINT</i>
2.	TUMnanoSat family for diverse educational space mission <i>Nicolae SECRIERU, Nicolae LEVINEŢ, Sergiu CANDRAMAN, Ilco VALENTIN, Adrian GIRSCAN, Andrei MARGARINT</i>
3.	Nanosatellite TUMnanoSat II for tracking and measure of the orbital parameters and decline <i>Nicolae SECRIERU, Nicolae LEVINEŢ, Vladimir MELNIC, Sergiu CANDRAMAN, Ilco VALENTIN, Adrian GIRSCAN, Andrei MARGARINT</i>
4.	Remote control and monitoring of irrigation process operation and control system architecture <i>Nicolae SECRIERU, Nicolae LEVINEŢ, Sergiu CANDRAMAN, Ilco VALENTIN, Adrian GIRSCAN, Andrei MARGARINT</i>
5.	Particularităţile proiectării reţelei de televiziune digitală terestră DVBT-2 în Republica Moldova <i>Cristina BELENIUC, Tatiana URSACHI, Ion AVRAM</i>
6.	SBAS use Opportunities for Maritime and River Navigation <i>Alexandru C. PANDELE, Antonia N. CROITORU, Costel CHERCIU</i>
<u>15.30 – 16.00</u>	Coffee Break

<u>Section: Communication and electronic systems</u>	
<u>19.10.2017, 16.00 – 17.45, ROOM: 3-701</u>	
Co-chairs:	<i>N. Secrieru</i> <i>I. Avram</i>
1.	Metodologia detrmnării nivelului de radiație emis de echipamentele radio. SAR (SAR - Specific Absorbtion Rate) <i>Serafima SOROCHIN, Arina LACHI, Pavel MOROZAN, Lilia SAVA</i>
2.	Selectarea modelului de calcul și proiectarea rețelei DVBT-2 în Republica Moldova <i>Mihail IACOB, Iurie DEMCIUC, Ion AVRAM</i>
3.	Metodologia determinării nivelului radiației emis de telefoanele mobile <i>Serafima SOROCHIN, Pavel MOROZAN, Arina LACHI, Lilia SAVA</i>
4.	Trecerea Republicii Moldova la televiziunea digitală terestră – un imperativ al timpului <i>Mihail IACOB, Iurie DEMCIUC, Cristina BELENIUC, Ion AVRAM</i>

<u>Section: Computer Sciences and Networks & Cyber Security</u>	
<u>19.10.2017, 14.00 – 15.30, ROOM: 3-215</u>	
Co-chairs:	<i>E. Guţuleac</i> <i>N. Grozavu</i>
1.	Modelarea Sistemelor Orientate pe Servicii prin RPS Reconfigurabile cu Trăsături Dinamice <i>Emilian GUȚULEAC, Sergiu ZAPOROJAN, Ion GÎRLEANU, Alexei SCLIFOS, Inga IAVORSCHI</i>
2.	Evaluarea Vulnerabilității la Atac a Rețelelor de Calculatoare prin GSPN Credibil Agregate <i>Emilian GUȚULEAC, Sergiu ZAPOROJAN, Ion GÎRLEANU, Alexei SCLIFOS, Inga IAVORSCHI</i>
3.	Opinion mining based on unsupervised machine learning <i>Nistor GROZAVU</i>
4.	Uncertainty and Time in Modern Artificial Intelligence <i>Boldur-Eugen BĂRBAT, Florin Gheorghe FILIP</i>
5.	Cybernetic Modelling. Proof-of-Concept Example <i>Boldur E. BĂRBAT, Florin G. FILIP</i>
6.	Text-to-Speech Systems for Romanian Language <i>Gavril TODERAN, Ovidiu BUZA, András BALOGH</i>
7.	Metodă de Identificare a Modelelor Obiectului de Reglare de Ordinul Unu și Doi după Răspunsul Experimental al Procesului <i>Bartolomeu IZVOREANU, Mihail POTLOG, Irina COJUHARI, Ion FIODOROV, Dumitru MORARU</i>
8.	Analiza Performanțelor Sistemului Automat cu Modele de Obiecte Aproximate după Răspunsul Experimental al Procesului

	<i>Bartolomeu IZVOREANU, Mihail POTLOG, Irina COJUHARI, Ion FIODOROV, Dumitru MORARU</i>	
9.	Dirijarea optimală a proceselor ondulatorii prin aplicarea principiului maxim Pontreaghin <i>Gheorghe CEBAN</i>	
10.	Marcarea sentimentelor în text: emoțiile autorului și opinia cititorului <i>Victoria BOBICEV, Liviu CARCEA</i>	
11.	Особенности обработки экспериментальных данных с помощью оконных функций <i>Т. ШЕСТАКОВА, Г. СОРОКИН, С. ГРИЦКОВ</i>	
12.	Исследование способов хранения, передачи и обработки больших объёмов данных в DICOM формате для медико-информационных систем <i>Alexandr GOLUBEV, Peter BOGATENCOV, Grigore SECRIERU</i>	
<u>15.30 – 16.00</u>		Coffee Break

<u>Section: Computer Sciences and Networks & Cyber Security</u>	
<u>19.10.2017, 16.00 – 17.45, ROOM: 3-215</u>	
Co-chairs:	<i>G. Todorean I. Fiodorov</i>
1.	Voltage Regulation and Stabilization with Limited Capacity Power Supply <i>Alexandr PENIN, Anatolie SIDORENKO</i>
2.	Applying sequential and parallel programming to solve a non-linear transportation problem <i>Tatiana PAȘA, Valeriu UNGUREANU</i>
3.	Reglarea Turațiilor Motorului de Curent Continuu în Mediul de Programare LabView

	<i>Irina COJUHARI, Ion FIODOROV, Bartolomeu IZVOREANU, Simion BARANOV, Dumitru MORARU, Radu MELNIC</i>
4.	Identificarea Modelului Matematic al Motorului de Curent Continuu în Baza LabView <i>Irina COJUHARI, Ion FIODOROV, Bartolomeu IZVOREANU, Dumitru MORARU, Radu MELNIC, Andrei CEBAN</i>
5.	Modul universal pentru sinteza mesajelor cu voce multilingve <i>Sergiu TINCOVAN, Iurie SOROCEANU, Vitalie SECRIERU, Eugeniu MUNTEANU, Valerian DOROGAN</i>
6.	Ensurement of web application security over the entire life cycle <i>Natalia PLEŞCA</i>

<u>Section: Computer Sciences and Networks & Cyber Security</u>	
<u>20.10.2017, 10.00 – 12.30, ROOM: 3-215</u>	
Co-chairs:	<i>A. Buzdugan</i> <i>V. Moraru</i>
1.	The interplay between cyber and nuclear security in Republic of Moldova <i>Aurelian BUZDUGAN, Artur BUZDUGAN</i>
2.	Protocolul HSTS împotriva atacurilor MITM <i>Rodica BULAI, Eugeniu CUCU</i>
3.	Сильно нелинейные колебания линейного осциллятора <i>Наталья Сергеевна ШТАЦКАЯ, Петр Иванович ХАДЖИ</i>
4.	Model de securitate a aplicațiilor mobile în baza analizei STRIDE <i>Rodica BULAI, Nelu SNEGUR</i>
5.	Analiza trăsăturilor psihologice a autorului mesajelor postate online <i>Irina IURCIUC, Victoria BOBICEV</i>
6.	Securitatea aplicațiilor web după modelul OWASP <i>Rodica BULAI, Alexandr ZIAEV</i>
7.	Использование мобильных устройств для проверки подлинности документов <i>Сергей ОЛЕЙНИК, Виктор БЕШЛИУ и Татьяна СКОРОХОДОВА</i>
8.	Realitatea virtuală. Ghidul spre lumea artificială <i>Nina SAVA, Cristian NIRONES</i>
9.	Sporirea eficienței energetice a incubatorului industrial <i>Sergiu TINCOVAN</i>

10.	Модели движения толпы <i>Tatiana SCOROHODOVA, Liuba GONTA</i>
11.	Умный интернет вещей – кто он и почему за ним будущее? <i>Tatiana SCOROHODOVA, Alexandru IACHIMOV</i>
12.	Billing system SCADA ARM <i>Vladimir JDANOV</i>
13.	A modified sqp algorithm for mathematical programming <i>Vasile MORARU, Sergiu ZAPOROJAN, Daniela ISTRATI</i>
14.	ECO-TIC, un nouveau pas pur l'ecologie et pour la societe <i>Dan OSIPCIUC, Daniela ISTRATI</i>
15.	Regresia polinomială la studierea factorilor climaterici <i>Alina ȚURCANU</i>

<u>Section: Biomedical Engineering</u>	
<u>19.10.2017, 14.00 – 15.30, ROOM: 3-709</u>	
Co-chairs:	<i>V. Şontea</i> <i>N. Ciobanu</i>
1.	Peroxidation Kinetics involving the Complexes of Cytochrome <i>c</i> and Cardiopilin in the Presence of Lipid Antioxidants <i>E.Yu. KANAROVSKII, O.V. YALTYCHENKO, N.N. GORINCHOY</i>
2.	Device for phototherapy with polarized non-coherent radiation <i>Iurie NICA, Valeriu CEBOTARI, Leonid POGORELISCHI, Aurel SAULEA</i>
3.	Influenţa radiaţiei electromagnetice asupra proceselor biomoleculare <i>Nellu CIOBANU, Natalia GUBCEAC, Ion GRABOVSKI, Vasile TRONCIU</i>
4.	Using of ISM radio bands for wireless charging of medical implants <i>UNGUREANU S., SONTEA V., VIDIBORSCHII V., LEPADATU C., SIPITCO N., FOSA D.</i>
<u>15.30 – 16.00</u> Coffee Break	

<u>Section: Biomedical Engineering</u>	
<u>19.10.2017, 16.00 – 17.45, ROOM: 3-709</u>	
Co-chairs:	<i>V. Şontea N. Ciobanu</i>
5.	Sporadic plasma perturbations in the E region of the terrestrial ionosphere <i>Valeriu ABRAMCIUC</i>
6.	Development of a biomechanical orthotic device <i>Ignacio Espiritu García MOLINA, Larisa Dunai DUNAI, Ismael Lengua LENGUA</i>

<u>Section: New technologies for university education</u>	
<u>19.10.2017, 14.00 – 15.30, ROOM: 3-609</u>	
Co-chairs:	<i>N. Balmuş</i> <i>A. Costaş</i>
1.	Softuri educaţionale pentru manualele digitale interactive de fizică <i>Ion Ia ANDRONIC, Nicolae BALMUŞ</i>
2.	Utilizarea modelelor tridimensionale în cursurile plasate pe platforma Moodle <i>Angela ŞULETEA, Sergiu DÎNTU</i>
3.	Manualul digital interactiv de informatică –repere metodologice de realizare și implementare în procesul de instruire <i>Nicolae BALMUŞ, Natalia BURLACU</i>
4.	New Technologies in Teaching Mathematics for Engineering and ICT Specialties <i>Ana COSTAŞ, Galina RUSU</i>
5.	Concepte metodice în predarea cinematicii rigidului liber și supus la legături <i>Gheorghe COMAN, Vasile RUSU</i>
6.	Aplicarea TIC în învățarea bazată pe probleme <i>Dumitru CIORBĂ, Irina COJUHARI, Elena GOGOI, Rostislav CĂLIN</i>
<u>15.30 – 16.00</u>	Coffee Break

<u>Section: New technologies for university education</u>	
<u>19.10.2017, 16.00 – 17.45, ROOM: 3-609</u>	
Co-chairs:	<i>N. Balmuş</i> <i>A. Costaş</i>
1.	Testarea electronică - metodă eficientă de învățare <i>Tudor BRAGARU</i>
2.	Threats to internal application security <i>Yousef Ibrahim DARADKEH, Svetlana Mikhailovna ARISTOVA, Petr Mikhailovich KOROLEV</i>
3.	Evoluția și implementarea noilor tehnologii informaționale în procesul de învățământ <i>Aliona TIHON</i>
4.	Analyse des paronymes français-raumain <i>Raisa BOTNARU</i>
5.	Homonymes à consonnes doubles <i>Raisa BOTNARU, Irina BOTNARU</i>
6.	Greseli fundamentale în unii itemi de fizică din sesiunea BAC 2017 <i>Igor EVTODIEV</i>
7.	Planul cadru de alternativă – soluția modernizării învățământului la fizică <i>Sergiu CÂRLIG</i>
8.	Optimization of free energy gain procedures - fundamental goal for ensuring sustainable development <i>Elena AGARWAL, Iurie BOȘNEAGA</i>

<u>Section: RENAM WorkShop</u>	
<u>19.10.2017, 14.00 – 15.30, ROOM: 3-114</u>	
Co-chairs:	<i>P. Bogatencov</i> <i>G. Secrieru</i>
1.	Reţeaua RENAM: noi oportunităţi pentru dezvoltarea conexiunilor CBF regionale Petru BOGATENCOV, Grigore SECRIERU
2.	
3.	
4.	
5.	
6.	
<u>15.30 – 16.00</u>	Coffee Break

<u>Section: Human Social Sciences</u>	
<u>19.10.2017, 14.00 – 15.30, ROOM: 3-318</u>	
Co-chairs:	<i>M. Braga</i> <i>C. Lozovanu</i>
1.	Principiile de bază și direcțiile activității economice din cadrul ONU <i>Natalia CĂRBUNE</i>
2.	Analiza lucrării lui Heidegger „Introducere în metafizică” <i>Mihai BRAGA</i>
3.	Sindromul <i>burnout</i>: boala profesională a societății contemporane <i>Cristina LAZARIUC</i>
4.	Reflecții filosofice asupra unor probleme ale fizicii contemporane <i>Ecaterina LOZOVANU</i>
5.	Contribuții psihologice în cadrul profilelor tehnice; aplicabilitate în disciplinele de ramură și dezvoltare a personalității <i>Simion Dănuț SIMION</i>
6.	Cercetarea transdisciplinară și mecatronica <i>V. ȚAPOC</i>
7.	Despre rolul și însemnătatea științelor socioumane în formarea personalității viitorilor specialiști cu studii superioare <i>Ion VANGHELI</i>
<u>15.30 – 16.00</u>	Coffee Break

<u>Section: Fizica Stării Condensate și Ingineria Materialelor</u>	
<u>19.10.2017, 14.00 – 15.30, ROOM: 3-201</u>	
Co-chairs:	<i>L. Konopko</i> <i>L. Croitor</i>
1.	Anisotropic thermoelectric devices made from single crystal semimetal microwires <i>L.A. KONOPKO, A.A. NIKOLAEVA, A.K. KOBYLIANSKAYA, T.E. HUBER</i>
2.	Temperature Induced Irreversible and Reversible Single Crystal to Single Crystal Transformations in Co(II) and Cd(II) Coordination Networks <i>D. CHISCA, L. CROITOR, O. PETUHOV, ED.B. COROPCEANU, M. S. FONARI</i>
3.	Oscilațiile cuantice, proprietățile magnetice și supraconductibile ale interfețelor nanodimensionale din Bi și aliagele Bi-Sb <i>F. M. MUNTYANU, E.P.CONDREA, V.G.CHISTOL</i>
4.	Proprietățile termoelectrice a soluțiilor solide de tipul Ga-Sb-Fe <i>B. COROLEVSCHI, L. GUȚULEAC, I. POSTOLACHI, P. UNTILA</i>
5.	Conductivitatea electrică a aliajelor GaSb+Fe <i>Boris COROLEVSCHI, Leonid GUȚULEAC, Igor POSTOLACHI, Pantelei UNTILĂ</i>
6.	Asamblarea compuşilor coordinativi ai Co(II, III) cu di- și trietanolamina <i>Dumitru D. STATI, Victor Ch. KRAVTSOV, Svetlana G. BACA</i>
7.	Влияние импульсного магнитного поля на микротвердость листового стекла <i>Василий ШАРАГОВ, Мариана АГАКИ, Ион ОЛАРУ</i>
8.	Tehnologii de preparare a celulelor solare pe bază de

	perovskite și chalcogenuri <i>Mihail POPA, Anvar ZAKHIDOV, Ion TIGHYNEANU</i>
9.	Cercetarea proprietăților electrice ale celulelor solare pe bază de perovskite și chalcogenuri <i>Mihail POPA, Anvar ZAKHIDOV, Ion TIGHYNEANU</i>
10.	Obținerea peliculelor de GaSb prin metoda descărcărilor electrice. <i>GUȚULEAC Leonid, OJEGOV Alexandr, POSTOLACHI Igor, TOPALA Pavel</i>
11.	Разработка методики HF-секционирования поверхностных слоев промышленных стекол разного назначения <i>Василий ШАРАГОВ, Светлана РАЙФУРА</i>
<u>15.30 – 16.00</u>	Coffee Break

<u>Section: Fizica Teoretică și Computațională</u>	
<u>19.10.2017, 16.00 – 17.45, ROOM: 3-201</u>	
Co-chairs:	<i>V. Ciornea</i> <i>B. Mironov</i>
1.	Metastable bound states of the two-dimensional quasi-bimagnetoexcitons <i>S.A. MOSKALENKO, P.I. KHADZHI, E.V. DUMANOV, I.V. PODLESNY, M.A. LIBERMAN, AND I.A. ZUBAC</i>
2.	Asymmetrical behaviors of second-order photon correlation functions due to interference effects <i>V. CIORNEA, P. BARDETSKI, MIHAI A. MACOVEI</i>
3.	Corelații cuantice fononi-fononi la neglijarea aproximației undei rotative <i>Cârlig SERGIU</i>
4.	To the decade of publishing the books "mechanisms of electromagnetic and gravitational fields" <i>B. MIRONOV</i>

<u>Section: Tehnologiile Fizice și Ingineria Dispozitivelor</u>	
<u>19.10.2017, 14.00 – 15.30, ROOM: 3-203</u>	
Co-chairs:	<i>D. Tsiulyanu</i> <i>S. Pyshkin</i>
1.	Characterization of gas sensitive chalcogenide films by impedance spectroscopy <i>Dumitru TSIULYANU</i>
2.	Advanced Light-Emissive Device Structures <i>Sergei L. PYSHKIN</i>
3.	Advanced Econophysical Analysis for Optimization of Transition to Sustainable Energy Development - Elaboration of the Main Components <i>Iurie BOȘNEAGA, Mircea BOLOGA</i>
4.	Variația consumului de energie la procesarea electrofizică a zerului <i>BOLOGA, M., VRABIE, E., STEPURINA, T., VRABIE, V., ILIASENCO, O., PALADII, I., SPRINCEAN, C., POLICARPOV, A., GONCIARUC</i>
5.	Rational energy accumulation as a condition <i>sine qua non</i> for transition to Sustainability <i>Iurie BOȘNEAGA, Mircea BOLOGA</i>
6.	The dynamic conductivity of glassy As₂S₃Ge₈-Te films by NO₂ adsorption <i>Marina CIOBANU</i>
15.30 – 16.00	Coffee Break

Posters Presentation

20 October 2017, 10.00-12.00, Bl. 3-Hall

Co-chairs:	<p><i>V. Ababii</i> <i>I. Cojocar</i> <i>A. Romanenko</i> <i>R. Melnic</i></p>
1.	<p>Fabrication and characterization of flexible composite material based on Aerographite/InP micro-nanostructures <i>Irina PLESCO, Julian STROBEL, Fabian SCHÜTT, Leonid GORCEAC, Boris CINIC, Cameliu HIMCINSCHI, Yogendra Kumar MISHRA, Lorenz KIENLE, Rainer ADELUNG, Ion TIGINYANU</i></p>
2.	<p>Model Neuronal Decizional în Baza Experienței Operatorului Uman <i>Viorel CĂRBUNE</i></p>
3.	<p>Despre Soluționarea Problemei de Optimizare Privind Calculul Rețelei de Telecomunicații Multimedia <i>Ana NISTIRIUC, Victor ABABII, Dinu ȚURCANU, Andrei CHIHAI, Pavel V. NISTIRIUC, Nicolae BEJAN, Ion NISTIRIUC</i></p>
4.	<p>Tendențe tehnologice în domeniul inteligenței artificiale <i>Eugenia DONOS, Dumitru CIORBĂ</i></p>
5.	<p>Imprimarea 3D pe Baza Principiului de Extrudarea Termoplastică <i>Sorin BOTNARU, Irina COJUHARI, Ion FIODOROV</i></p>
6.	<p>The Decision-Making System Based on Adaptive Agents <i>Grenadine SAFONOV, Victor ABABII, Viorica SUDACEVSCHI</i></p>
7.	<p>Sistem pentru comanda unei colonii de roboți mobili în baza modelelor de rețele neuronale <i>Victor ABABII, Viorica SUDACEVSCHI, Dimitri BORDIAN, Alexei RASCHIPKIN</i></p>

8.	Evaluarea Timpului de Întârziere în Plăcile de Cablaj Imprimat în Baza Rețelelor Petri Hard Temporizate <i>Dmitri CALUGARI, Viorica SUDACESVCHI, Victor ABABII, Dimitri BORDIAN</i>
9.	Способы и устройства для определения критической частоты слияния мельканий (КЧСМ) <i>Alexandr ROMANENKO, Valeriu DRAGONER, Mihai POTLOG, Svetlana COJOCARU</i>
10.	Аудиостриминговый сервис, основанный на технологии PeertoPeer <i>Leonid BARSUCOVSKI, Alexandr ROMANENKO, Radu MELNIC</i>
11.	Применение нейронных сетей в реализации вопросно-ответных систем <i>Virsta MARIA, Alexandr ROMANENKO, Tamara TIHOLAZ</i>
12.	Proiectarea și implementarea unui micronucleu <i>Alexandr VULPEA, Dumitru CIORBĂ</i>
13.	К вопросу построения высокоточных фотоэлектрических преобразователей перемещений <i>Валерий ДРАГОНЕР, Михаил ПОТЛОГ, Александр РОМАНЕНКО, Тамара ТИХОЛАЗ, Дориан САРАНЧИУК</i>
14.	System for digital processing of multidimensional signals <i>Dmitri CALUGARI, Viorica SUDACEVSKI, Victor ABABII, Dimitri BORDIAN</i>
15.	Система принятия решений на базе мембранных вычислительных топологий <i>НЕГАРЭ Э., МЕЛЬНИК Р., БОРДИАН Д., НИСТИРЮК А.</i>
16.	Применение устройства для корректурных проб <i>Alexandr ROMANENKO, Ion BALMUS, Ludmila DUCA</i>
17.	Сбор и мониторинг телеметрических данных с использованием Raspberry PI <i>Iurii IURII, Alexandra SUBERNETCAIA, Alexandru ROMANENKO, Dorian SARANCIUC</i>
18.	Mobile technologies in a nutshell <i>Adrian ZGHIBARTA, Mariana CATRUC</i>

19.	Tehnologii de preparare a celulelor solare pe bază de perovskite și chalcogenuri <i>Mihail POPA, Anvar ZAKHIDOV, Ion TIGHYNEANU</i>
20.	Аспекты направленного синтеза протеаз у мицелиальных грибов с использованием нанокислов металлов <i>А. ЧИЛОЧИ, Ж. ТЮРИНА, С. ЛАБЛЮК, Е. ДВОРНИНА, С. КЛАПКО, Ч. БИВОЛ, Т. ГУЦУЛ, Е. РУСУ, Д. ДВОРНИКОВ</i>
21.	Critical current of MgB2 microbriges <i>A. SURDU, A. SOKROVISCIUC, E. ANTROPOV, M. MIKHAILOV, A. SIVAKOV, A. POKHILA, A. SIDORENKO</i>
22.	Magnetic random access memory (MRAM) element based on the triplet spin-valve effect for superconducting spintronics <i>R. MORARI, D. LENK, V.I. ZDRAVKOV, A.A. PREPELITA, E.V.ANTROPOV, A. SOCROVISCIUC, S. DONU, E. CONDREA, S. HORN, R. TIDECKS, L.R. TAGIROV, A.S. SIDORENKO</i>
23.	Учёт влияния липидного антиоксиданта на пероксидазный процесс с участием комплекса цитохрома с и кардиолипина <i>Е.Ю. КАНАРОВСКИЙ, О.В. ЯЛТЫЧЕНКО, Н.Н. ГОРИНЧОЙ</i>
24.	Sinteza și studiul polimerilor 2D ai Zn(II) în baza 2,6-diacetilpiridină bis((izo)nicotinoilhidrazone)-lor <i>Olga DANILESCU, Pavlina BOUROȘ, Ion BULHAC</i>
25.	IURIE PERLIN – in memoriam <i>Iulia MALCOCI</i>
26.	Monitoring of the atmospheric aerosol optical characteristics at the iap ground-based station, kishinev(moldova) <i>A. ACULININ, V. SMICOV</i>
27.	Monitoring of total ozone content(toc) at the iap ground-based station, kishinev(moldova) <i>A. ACULININ, V. SMICOV</i>

28.	<p>Передача двух сигналов по трехпроводной линии с потерями <i>A. ПЕНИН, А. СИДОРЕНКО, С. ДОНУ</i></p>
29.	<p>Synthesis and crystal structure of binuclear seven-coordinated manganese(ii) complex <i>Lidia CUBA, Pavlina BOUROSH, Diana DRĂGANŢEA</i></p>
30.	<p>Straturi de AlN crescute pe siliciu prin metoda reacţiilor chimice de transport cu urme de azot polimerizat <i>S. RAEVŞCHI, N. SPALATU, L. GORŢEAC, V. BOTNARIUC</i></p>
31.	<p>Studierea procesului de condensare a zerului <i>Sergiu SOLONARI, Irina VUTCARIOVA, Maria RUSU, Gheorghe BALAN, Mircea BOLOGA</i></p>
32.	<p>О влиянии обработки бетонной сухой смеси в магнитнооживленном слое на прочность бетона <i>Ф.П. ГРОСУ, В.П. ГОНЧАРУК, М.К. БОЛОГА, А.А. ПОЛИКАРПОВ, О.В. МОТОРИН</i></p>
33.	<p>ЭЛЕКТРОМАГНИТНАЯ АКТИВАЦИЯ ВОДЫ ДЛЯ РАСТВОРНОЙ СМЕСИ <i>В.П. ГОНЧАРУК, М.К. БОЛОГА, И.В. РУСУ, А.А. ПОЛИКАРПОВ, Э.Г. ВРАБИЕ, В.В. СПЫНУ</i></p>
34.	<p>Sinteza și studiul cu raze X a polimerului 1D al Fe(II) în fază cristalină ce conține 4,4'-dipiridină <i>Aliona VITIU, Eduard COROPŢEANU, Paulina BOUROŞ</i></p>
35.	<p>К теории высокотемпературной сверхпроводимости в двухслойных системах FeSe/STO <i>М.Е. ПАЛИСТРАНТ, Д.Ф. ДИГОР, С.А. ПАЛИСТРАНТ</i></p>
36.	<p>Structuri miez/înveliș bazate pe CdTe/SnO₂ și GaAs/SnO₂ pentru aplicații optoelectronice <i>L. GHIMPU, A. PANTAZI, O. BRINCOVEANU, R. MESTERCA, URSACHI, I. TIGHINEANU, M. ENACHESCU</i></p>
37.	<p>Absorption and Luminescence Spectra of Ga-based Chalcogenide Glasses <i>E.V. LUPAN, M.S. IOVU</i></p>
38.	<p>Влияние времени хранения на стабильность тонкопленочных структур Cu-As₂S₃ и Ag-As₂S₃ <i>А.М. НАСТАС, М.С. ЙОВУ, О. В. ЯСЕНИУК</i></p>

39.	Calitățile de savant și metodele științifice de investigare utilizate de Eminescu <i>Ion HOLBAN</i>
40.	Ultrafast optomagnetic bistable effects in magnetically – ordered materials <i>S. A. BARANOV, I. I. DOBYNDE</i>
41.	Prepararea și caracterizarea filmelor de ZnSnO prin metoda aerosol <i>V. MORARI, N. CURMEI, O. BRINCOVEANU, R. MESTERCA, D. BALAN, E. RUSU, M. PRODANA, V. URSACHI, M. ENACHESCU</i>
42.	Synthesis of Mg_xZn_{1-x}O thin films by spin coating and aerosol deposition methods <i>V. MORARI, O. BRINCOVEANU, R. MESTERCA, D. BALAN, E. RUSU, V. ZALAMAI, M. PRODANA, V. URSAKI, M. ENACHESCU</i>
43.	Transport properties of Bi wires in high magnetic field <i>E. CONDREA, F. MUNTYANU AND A. GILEWSKI</i>
44.	Прибор непрерывного мониторинга качества воды, по измерению и сбору информации на SD- карту данных, по её проводимости и температуре <i>В. СМЫСЛОВ, А. СИДОПЕНКО</i>
45.	Revista „Fizica și tehnologiile moderne”, 15 ani de activitate, mic bilanț, probleme <i>Ion HOLBAN</i>
46.	Synthesis and characterization of nanoparticles Fe₀/PVP <i>T. GUTUL , T. FEDOROV, A.MIRZAC, A.SHKURPELO ,S.VATAVU</i>
47.	Характеристика методов определения механических свойств стеклянных банок <i>Василий ШАРАГОВ, Галина КУРИКЕРУ</i>
48.	Термостойкость стеклянной тары, выщелоченной диоксидом серы <i>Василий ШАРАГОВ, Ион БУРКОВСКИЙ</i>

49.	Влияние двухфотонных процессов на поведение законов дисперсии экситон-поляритонов в условиях действия сильной накачки в области М-полосы люминесценции <i>П.И. ХАДЖИ, Л.Ю. НАДЬКИН, Д.А. МАРКОВ</i>
50.	Численное моделирование воздействия ударной волны от сверхновой звезды с молекулярными облаками межзвёздного газа <i>С.М. СОКОВНИЧ</i>
51.	О пробковом механизме теплопередачи в испарительно-конденсационной системе <i>Ф.П. ГРОСУ, М.К. БОЛОГА, И.В. КОЖЕВНИКОВ, А.А. ПОЛИКАРПОВ, О.В. МОТОРИН</i>
52.	О сущности электрогидродинамической очистки жидкостей <i>В.И. ЛЕУ</i>
53.	Optimized growth of VO₂ thin films by metalorganic aerosol deposition <i>O. SHAPOVAL, A. BELENCHUK, E. ZASAVITCHI, S. VATAVU, A. CHIRITA</i>
54.	Исследование изменения выходных характеристик эгд насоса от времени <i>БОЛОГА М.К., КОЖЕВНИКОВ И.В., ГРОСУ Ф.П., ЧЕРНИКА И. М., МАРДАРСКИЙ О.И.</i>
55.	Porous three-dimensional Cd(II) coordination network based on 1,2-bis(4-pyridyl)ethane and formiate ligands <i>Victor BOLD, Eduard B. COROPCEANU, Victor Ch. KRAVTSOV</i>
56.	Изменение термоэлектрических свойств тонких нитей Bi_{1-x}Sb_x (0≤x≤0.12) от диаметра <i>Иван ПОПОВ</i>
57.	Extragerea fracțiilor proteice la procesarea electrofizică a zerului <i>BOLOGA, M., VRABIE, E., STEPURINA, T., VRABIE, V., ILIASENCO, O., PALADII, I., SPRINCEAN, C., POLICARPOV, A., GONCIARUC, V.</i>

58.	Aspecte ecologice la procesarea electrofizică a zerului <i>BOLOGA, M., PALADII, I., VRABIE, E., STEPURINA, T., VRABIE, V., ILIASENCO, O., SPRINCEAN, C., POLICARPOV, A., GONCIARUC, V.</i>
59.	Shubnikov- de Haas effect and thermoelectric properties layer and wires <i>A.A. NIKOLAEVA, L.A. KONOPKO, P.P. BODIUL, D.F. MEGLEI, T. KOROMYSLICHENKO</i>
60.	Анизотропные квантовые точки в электрическом и магнитном полях <i>Е.И. БРУСЕВСКАЯ, Р.А. ХАМИДУЛЛИН</i>
61.	Анизотропные квантовые проволоки в магнитном поле <i>Р.А. ХАМИДУЛЛИН, Е.И. БРУСЕВСКАЯ</i>
62.	Hexanuclear pivalate iron(iii) cluster with a functionalized salicylaldehyde <i>Iurie L. MALAESTEAN, Sergiu SHOVA, Diana DRAGANCEA</i>
63.	Efectul câmpului electric asupra transferului de căldură la fierberea pe suprafețe poroase <i>M. BOLOGA, I. CERNICA, 2, O. MARDARSCHI, I. KOJEVNIKOV</i>
64.	Нелинейное стационарное пропускание тонкой полупроводниковой пленки двух ультракоротких импульсов лазерного излучения в экситонной области спектра и в области экситон–биэкситонной конверсии <i>А.Г. МАНГИР, А.В. КОРОВАЙ</i>
65.	Detection in the contacts at low temperatures: influence of the free electrons concentration on the detecting parameters <i>Ia. I. KERNER</i>
66.	Procesarea zerului concentrat prin electroliză <i>Irina VUTCARIOVA</i>
67.	The Benefits of Inquiry-Based Science and Math Education as a Constructivist Pedagogy <i>Mihail CALALB</i>
68.	HTSC in Modern Anisotropic Compounds <i>M. E. PALISTRANT, Mihail CALALB, Vitalie URSU</i>

69.	Исследование изменений режима осадков в районе многолетних противорадовых работ в центральном регионе республики Молдова. <i>Е.И. ПОТАПОВ, Е.А. ЗАСАВИЦКИЙ</i>
70.	In memoriam of academician Valeriu Kantser <i>Anatolie SIDORENKO</i>
71.	Proprietăți optice ale compozitului Ga₂O₃-Ga₂S₃ <i>Igor EVTODIEV, Iuliana CARAMAN, Valeriu KANTSER, Silvia EVTODIEV, Petru GAȘIN, Veaceslav SPRINCEAN</i>
72.	Extracția cavitațională <i>Petru DUMITRAS, Mircea BOLOGA, Tatiana CUBRIȚAIA, Gheorghe BALAN, Eugenia STÎNGACI</i>
73.	Metode tehnologice de procesare a lavandei <i>Petru DUMITRAȘ, Mircea BOLOGA, Viorel CEORNEA, Gheorghe BALAN</i>
74.	Ultrafast Optomagnetic Bistable Effects in Magnetically-Ordered Dielectrics Cylindrical Nanoparticles <i>Sergei BARANOV, Igor DOBYNDE</i>