

Anexa 1.

**The 55th anniversary of
Technical University of Moldova**

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

**The 10th International Conference
on
*“Electronics, Communications and
Computing”***

Conference Program

**October 23-26, 2019, Chisinau,
Republic of Moldova**

TUM, 2019

Organizing Committees of the 10th International Conference on Electronics, Communications and Computing (IC|ECCO-2019).

IC|ECCO-2019 continues the series of the ICMCS (International Conference on Microelectronics and Computer Sciences) and the ICTEI (International Conference on Telecommunications, Electronics and Informatics).

Address:

168, Stefan cel Mare av., MD-2004, Chisinau,

Republic of Moldova

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E-mail: info@ecco.utm.md

Web: <http://www.ecco.utm.md>

The program contains the timetable of the Plenary Sessions and Conference Sessions of the **10th International Conference on Electronics, Communications and Computing**, Chişinău, Moldova, October 23-26, 2019.

The Organizing Committee of the **10th International Conference on Electronics, Communications and Computing** highly appreciates the support provided by the following agencies and enterprises:

- *Technical University of Moldova*
- *Academy of Science of Moldova*
- *The Ministry of Education, Culture and Research*
- *The Ministry of Economy and Infrastructure*
- *Moldovan Association of Information and Communications Technology Companies*
- *Information Society Development Institute*
- *e-Government Center*
- *Information Technology and Cyber Security Service*
- *Orange S.A., Moldova – TUM strategic partner*
- *M-Testing, Moldova*
- *PGI: Planet Group International, Moldova*
- *AROBS Software Chişinău, Moldova*
- *AMDARIS, Moldova*
- *Ellation, Moldova*
- *Pentalog, Moldova*
- *Endava, Moldova*

Honorary Chairman:

**Professor, Viorel BOSTAN,
Rector of the Technical University of Moldova**

**Academician, Ion TIGHINEANU,
President of the Academy of Sciences of Moldova**

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Creţu	Vasilii	Moldova
Țurcan	Ana	Moldova
Sanduleac	Ionel	Moldova

Conference Topics

Sec.	ROOM	Sessions:	Page
1.	Tekwill	Plenary Session	11
2.	3-118	Workshop on Machine Learning and Applications	13
3.	3-214	Workshop on Interactive Multimedia	14
4.	6-2	Computing I	15
5.	3-505	Computing II	17
6.	3-414	Electronics	19
7.	3-208	Communications & Cyber Security	22
8.	3-318	Research and Education for knowledge – based Society	23
9.	6-2	Posters Presentation	25

10th International Conference on Electronics, Communications and Computing

October 23.2019	9.00 - 18.00	Registration of participants (ROOM:3-208)*
	9.00-15.00	<i>CTF – Student Cyber Security Contest (TUM)</i>
October 24.2019	8.00 – 9.30	<i>Registration of participants (Tekwill)**</i>
	9.30 – 10.00	<i>Conference Opening. Welcome Speech, (Tekwill)**</i>
	10.00 – 11.00	<i>Plenary Session - I, (Tekwill)**</i>
	11.00 – 11.30	<i>COFFEE BREAK, (Tekwill)**</i>
	11.30 – 13.00	<i>Plenary Session - II, (Tekwill)**</i>
	13.00 – 14.00	<i>LUNCH</i>
	14.00 – 16.00	<i>Plenary Session - III, (Tekwill)**</i>
	16.00 – 16.30	<i>COFFEE BREAK, (Tekwill)**</i>
	16.30 – 17.30	<i>Plenary Session - IV, (Tekwill)**</i>
October 25.2019	9.30 – 11.00	<i>Section Session, (TUM)*</i>
	11.00 – 11.30	<i>COFFEE BREAK, (TUM)*</i>
	11.30 – 13.00	<i>Section Session, (TUM)*</i>
	13.00 – 14.00	<i>LUNCH</i>
	14.00 – 16.00	<i>Poster Session, (TUM)*</i>
	16.00 – 16.30	<i>COFFEE BREAK, (TUM)*</i>
	16.30 – 17.00	<i>Closing Ceremony, (TUM)*</i>
October 26.2019	9.00 – 17.00	<i>Individual Cultural Program</i>

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

**** srt. Studenţilor, 9/11, Tekwill ICT Excellence Center**

SITE of the Conference

The **IC/ECCO-2019** conference will be held on October 23-26, 2019 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 9.30, 24th of October, 2019.

Address:

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

Language

The official language of the Conference is **English**.

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>24 October 2019</u>	
8⁰⁰-9³⁰	Participant Registration (Tekwill ICT EC)
9³⁰-10⁰⁰	Conference Opening, Welcome Speeches (Tekwill ICT EC)
PLENARY SESSION (Tekwill ICT EC)	
Co-chairs:	<i>V. Pershenkov V. Şontea</i>
10⁰⁰	<i>Aerogalnite as a biomimetic electronic nanomaterial for multifunctional applications Acad. Ion TIGHINEANU, Academy of Science of Moldova</i>
10³⁰	<i>Challenges of mixed reality technologies in technical education Professor, Dorin-Mircea POPOVICI, University "Ovidius", România</i>
11⁰⁰ – 11³⁰ – Coffee Break	
Co-chairs:	<i>V. Pershenkov V. Şontea</i>
11³⁰	<i>Low dose rate effects in bipolar devices during long-term operation space electronic systems Professor, Viacheslav PERSHENKOV, National Research Nuclear University MEPhI, Moscow, Russian Federation</i>

12⁰⁰	<i>5G main technological advantages: Massive Mimo, UL/DL decoupling, Beamforming Codruţ SĂVULESCU, Huawei România</i>
13⁰⁰-14⁰⁰	LUNCH
Co-chairs:	<i>A. Pogrebnjak O. Lupan</i>
14⁰⁰	<i>First-principles Calculations and Insight of Microstructural Effects on Mechanical Properties in the Heterostructured (CrN/ZrN)/(Cr/Zr) Nanocomposite Coatings Professor, Alexander POGREBNJAK, Sumy State University, Sumy, Ukraine</i>
14⁴⁵	<i>Nanotechnology for single nanowire nanosensors on semiconducting oxides Professor, Oleg LUPAN, Technical University of Moldova</i>
15³⁰-16⁰⁰	Coffee Break
16⁰⁰	<i>Moldova Digital Transformation: achievements and next steps Iurie ȚURCANU, The Electronic Government Agency, Republic of Moldova</i>
16²⁰	<i>Robot Process Automation Victor BIVOL IT Projects Coordinator</i>
16³⁰	<i>How Digital Transformation changes security needs and solutions Adrian CORNEI, Director XONTECH Systems</i>

25 October 2019

**WORKSHOP on Machine Learning and Applications
(ROOM: 3-118)**

9³⁰	OVERVIEW OF COMPUTER VISION SUPERVISED LEARNING TECHNIQUES FOR LOW-DATA TRAINING <i>Alexandru BURLACU</i>
10⁰⁰	STABILITY OF NON-NEGATIVE MATRIX FACTORIZATION <i>Basarab MATEI, HdR, Paris 13 University, France</i>
10³⁰	TOPOLOGICAL COLLABORATIVE MACHINE LEARNING AND THEIRS APPLICATIONS TO IMAGES <i>Nistor GROZAVU, Paris 13 University, France</i>
11⁰⁰-11³⁰	Coffee Break
11³⁰	AUTOMATE PLAGIARISM DETECTION <i>Eugeniu STRATULAT, Stanislav STROIANEŢKI, Victoria BOBICEV</i>
11⁴⁵	UNSUPERVISED LEARNING FOR AUTOMATIC DATA ANONYMIZATION <i>Nicoleta ROGOVSCHI, LIPADE, Paris Descartes University, France</i>
12¹⁰	COLLABORATIVE MULTI-VIEW RECOMMENDER SYSTEM <i>Issam FALIH, Clermont-Auvergne University, France</i>

12³⁵	<p>CLUSTERING OF DATA STREAM WITH A NEW SPACE OF REPRESENTATION <i>Parisa RASTIN,</i> <i>Ecole Nationale Supérieure des Mines de Nancy;</i> <i>Lorraine Research Laboratory in Computer Science and its Applications (LORIA)</i></p>
13⁰⁰-14⁰⁰	LUNCH

<p>WORKSHOP on Interactive Multimedia (ROOM: 3-214)</p>	
9³⁰	<p>USE-CASES OF MIXED REALITY TECHNOLOGY IN OUR EVERY DAY LIFE <i>Dorin-Mircea POPOVICI,</i> <i>Ovidius University Constanta</i></p>
10⁰⁰	<p>NEWMEDIAART - BETWEEN IT AND DESIGN <i>Dumitru GANGALIUC,</i> <i>RIFT Moldova</i></p>
10³⁰	<p>ARTIFICIAL HEARING: GETTING LOST (AND FOUND?) IN SOUND WAVES <i>Serghei LITOVCHENCO,</i> <i>Sonacom Grup</i></p>
11⁰⁰-11³⁰	Coffee Break
11⁴⁵	<p>BELIEVABLE AGENTS: FROM AI TO LIFE SIMULATION <i>Vasili BRAGA,</i> <i>Sonacom Grup</i></p>
13⁰⁰-14⁰⁰	LUNCH

Section: Computing - I

25 October 2019, 9³⁰ – 13⁰⁰, ROOM: 6-2

Co-chairs: *E. Gutuleac*
V. Sudacevschi

1	<p>APPROXIMATE PERFORMANCE ANALYSIS OF COMPUTING PROCESS BY AGGREGATED HSPN WITH FUZZY PARAMETERS <i>Emilian GUȚULEAC, Sergiu ZAPOROJAN, Victor MORARU, Alexei SCLIFOS</i></p>
2	<p>TRI-AXIAL SQUARE HELMHOLTZ COIL FOR TESTING SATELLITE STABILIZATION WITH MAGNETORQUERS <i>Ion BOSTAN, Viorel BOSTAN, Nicolae SECRIERU, Vladimir MELNIC, Valentin ILCO, Alexei MARTÎNIUC, Vladimir VÂRZARI</i></p>
3	<p>KIBOCUBE PROGRAM FOR THE LAUNCH OF THE TUMNANOSAT NANOSATELLITE <i>Viorel BOSTAN, Ion BOSTAN, Valentin ILCO, Vladimir MELNIC, Alexei MARTINIUC, Nicolae SECRIERU</i></p>
4	<p>FUNCTIONAL SAFETY AND RELIABILITY OF TUMnanoSAT SATELLITE ON-BOARD COMPUTER SOFTWARE <i>Alexei MARTINIUC, Nicolae SECRIERU</i></p>
5	<p>QoS INTUIONISTIC FUZZY DECISION-MAKING IN MOBILE CLOUD OFFLOADING SYSTEMS BASED ON EXTENSION THEORY <i>Emilian GUȚULEAC, Sergiu ZAPOROJAN, Victor MORARU, Alexei SCLIFOS</i></p>

6	<p>ELABORATION OF A HIGH-SPEED MICROPROCESSOR RELAY PROTECTION DEVICE <i>Vladimir JDANOV, Sergiu TINCOVAN</i></p>
<u>11⁰⁰ – 11³⁰</u>	Coffee Break
7	<p>EVOLUTIONARY LOGIC DESIGN OF REVERSIBLE/QUANTUM DEVICES <i>Vitaly DEIBUK</i></p>
8	<p>ANALYSIS OF TELECOMMUNICATION NETWORKS BY ENLARGING SIMULATED PARAMETERS <i>Ana NISTIRIUC, Victor ABABII, Andrei CHIHAI, Pavel NICOLAEV, Ion NISTIRIUC, Nicolae BEJAN, Pavel NISTIRIUC</i></p>
9	<p>ESTIMATION OF THE MATHEMATICAL MODEL OF THE DC ENGINE COUPLED WITH A REACTION WHEEL USING GA <i>Vladimir MELNIC</i></p>
10	<p>DATA SCIENCE APPROACH FOR IT PROJECT MANAGEMENT <i>Janis GRABIS, Bohdan HAIDABRUS, Serhiy PROTSENKO, Iryna PROTSENKO, Anna ROVNA</i></p>
11	<p>INTERNET OF THINGS SYSTEM FOR ENVIRONMENTAL MAP ACQUISITION <i>Andrei BRAGARENCO, Galina MARUSIC</i></p>

<u>Section: Computing - II</u>	
<u>25 October 2019, 9³⁰ – 13⁰⁰, ROOM: 3-505</u>	
Co-chairs:	<i>I. Bolun</i> <i>I. Fiodorov</i>
1	CHARACTERISTICS OF SOME APPORTIONMENT METHODS BY COMPUTER SIMULATION <i>Ion BOLUN</i>
2	STOCHASTIC OPTIMAL CONTROL OF A TWO-DIMENSIONAL DYNAMICAL SYSTEM <i>Mario LEFEBVRE</i>
3	IDENTIFICATION OF THE MATHEMATICAL MODEL OF THE CONTROL OBJECT BASED ON THE GENETIC ALGORITHM <i>Irina COJUHARI, Ion FIODOROV, Bartolomeu IZVOREANU, Dumitru MORARU, Inga LISNIC</i>
4	SYNTHESIS OF THE PID CONTROLLER TO THE SYSTEM WITH MAXIMUM STABILITY DEGREE BASED ON THE GENETIC ALGORITHM <i>Irina COJUHARI, Bartolomeu IZVOREANU, Ion FIODOROV, Dumitru MORARU, Inga LISNIC</i>
<u>11⁰⁰ – 11³⁰</u>	Coffee Break
5	THE ALGORITHM OF TUNING THE PID CONTROLLER TO THE UNSTABLE MODEL OF OBJECT WITH INERTIA SECOND ORDER <i>Bartolomeu IZVOREANU, Mihail POTLOG, Irina COJUHARI, Ion FIODOROV, Dumitru MORARU, Nadejda POPOVICI, Adrian SECRIERU</i>

6	MODELLING RELIABILITY OF SERIAL-PARALLEL AND PARALLEL-SERIAL NETWORKS WITH CONSTANT NUMBERS OF SUBNETWORKS AND UNITS <i>Veronica ANDRIEVSCHI-BAGRIN</i>
7	RELIABILITY OF SERIAL-PARALLEL NETWORKS VS RELIABILITY OF PARALLEL-SERIAL NETWORKS <i>Alexei LEAHU, Veronica ANDRIEVSCHI-BAGRIN</i>
8	MICROSERVICE BASED SYSTEM FOR PAPER DOCUMENTS COUNTERFEIT DETECTION <i>Serghei OLEINIC, Victor BEŞLIU, Tatiana SCORHODOVA</i>
9	ANALYSIS AND TREATMENT OF RISKS IN INFORMATION SYSTEMS <i>Inga LISNIC, Sergiu SCROB, Irina COJUHARI</i>

Section: Electronics

25 October 2019, 9³⁰ – 13⁰⁰, ROOM: 3-414

Co-chairs:	<i>V. Şontea</i> <i>V. Tronciu</i>
1	<p>LOW DOSE RATE EFFECTS IN BIPOLAR DEVICES DURING LONG-TERM OPERATION SPACE ELECTRONIC SYSTEMS</p> <p><i>Viacheslav PERSHENKOV, Alexander BAKERENKOV, Vladislav FELITSYN, Alexander RODIN, Vitaliy TELETS, Vladimir BELYAKOV, Alexander ZHUKOV</i></p>
2	<p>MICROHEATERS FOR COPPER OXIDE BASED GAS SENSORS</p> <p><i>Viorel TROFIM, Nicolai ABABII, Oleg LUPAN</i></p>
3	<p>EFFECT OF PEIERLS TRANSITION ON THE PHONON SPECTRUM IN ORGANIC CRYSTALS OF TTT₂I₃ FOR DIFFERENT VALUES OF CARRIER CONCENTRATION</p> <p><i>Silvia ANDRONIC, Anatolie CASIAN, Ionel SANDULEAC, Ion BALMUS</i></p>
4	<p>FIRST-PRINCIPLES CALCULATIONS AND INSIGHT OF MICROSTRUCTURAL EFFECTS ON MECHANICAL PROPERTIES IN THE HETEROSTRUCTURED (CrN/ZrN)/(Cr/Zr) NANOCOMPOSITE COATINGS</p> <p><i>Alexander POGREBNJAK, Olga MAKSAKOVA, Volodymyr IVASHCHENKO and Richard WEBSTER</i></p>
5	<p>EFFICIENCY EVALUATION OF CERAMIC MEMS DEVICE MANUFACTURED BY LASER MICROMILLING</p> <p><i>Nikolay SAMOTAEV, Konstntin OBLOV, Anastasia IVANOVA, Anastasiya GORSHKOVA, Boris PODLEPETSKY</i></p>

6	<p>LOW POWER THERMOCATALYTIC SENSORS WITH NANOSTRUCTURED GAS SENSITIVE MATERIALS <i>Nikolay SAMOTAEV, Konstantin OBLOV, Anastasia IVANOVA, Viacheslav PERSHENKOV</i></p>
11⁰⁰ – 11³⁰	Coffee Break
7	<p>INVESTIGATION OF PICOSECOND-PULSE GENERATION BY TWO-SECTION BLUE-VIOLET SEMICONDUCTOR LASERS <i>Vasile TRONCIU, Hans WENZEL, Andrea KNIGGE</i></p>
8	<p>CTS OPTIMIZATION ON 3D INTEGRATION <i>Ionica-Marcela PLETEA, Victor SONTEA, Iolanda ALECSANDRESCU</i></p>
9	<p>QUANTUM ELECTRICAL TRANSPORT PROPERTIES OF TOPOLOGICAL INSULATOR Bi_{0.83}Sb_{0.17} NANOWIRES <i>Leonid KONOPKO, Albina NIKOLAEVA, Tito HUBER, Krzysztof ROGACKI</i></p>
10	<p>MEASURING APPROACH FOR SEMICONDUCTOR NANOSTRUCTURED GAS SENSORS PARAMETERS <i>Valeriu VERJBITKI, Serghei RAILEAN, and Oleg LUPAN</i></p>
11	<p>TiO₂/ZnO COLUMNAR HETEROSTRUCTURES <i>Nicolae MAGARIU, Thierry PAUपोर्टÉ, Oleg LUPAN</i></p>

Section: Electronics

25 October 2019, 14⁰⁰ – 16⁰⁰, ROOM: 3-414

Co-chairs: *O. Lupan*
S. Railean

1 **EXFOLIATION AND THERMOELECTRIC PROPERTIES OF BISMUTH TELLURIDE AND BISMUTH CHALCOGENIDES LAYERS N- AND P-TYPE**
Albina NIKOLAEVA, Leonid KONOPKO, Krzysztow ROGACKI, Igori GHERGHISHAN, Oxana BOTNARI, Tatiana KOROMYSLICHENKO

2 **SENSITIVITY INVESTIGATION TO FORMALDEHYDE OF THE VAPORS OF NANOSTRUCTURED FILMS FROM ZnO SEMICONDUCTOR OXIDES FOR MEDICAL APPLICATION**
Oleg LUPAN, Ion POCAZNOI, Nicolai ABABII, Vasiliu CRETU, Iuliana SECU

3 **THE PLASTICITY INDEX OF THE "SOFT-FILM/SOFT-SUBSTRATE" COATED SYSTEMS**
Constantin PYRTSAC, Daria GRABCO

4 **NANOSENSORS BASED ON INDIVIDUAL HIBRID STRUCTURES AND THEIR APPLICATION IN GAS SENSING AT ROOM TEMPERATURE**
Vasile POSTICA, Jorit GRÖTTRUP, Rainer ADELUNG, Victor SONTEA, Oleg LUPAN

16⁰⁰ – 16³⁰

Coffee Break

Section: Communications & Cyber Security

25 October 2019, 9³⁰ – 13⁰⁰, ROOM: 3-208

Co-chairs: *N. Bejan*
V. Beşliu

1 ANALYSIS OF THE ENERGY CHARACTERISTICS OF M – QAM SIGNALS AT TURNING OF SIGNAL CONSTELLATIONS
Andrei MIHAILOV, Tatiana SESTACOVA, Gherman SOROCHIN

2 AN ALGORITHM OF EXTENDING EEPROM WRITE CYCLES
Gheorghe PURCI, Veaceslav NASTASENCO

3 ELABORATION OF A HIGH-SPEED MICROPROCESSOR RELAY PROTECTION DEVICE
Vladimir JDANOV, Sergiu TINCOVAN

4 DISTURBANCE STABILITY IMPROVEMENT OF THE DEVICE FOR DETECTING DEFECTS OF ELECTRIC CABLE
Serghei TINCOVAN

11⁰⁰ – 11³⁰

Coffee Break

5 PARTICULARITIES OF THE IMPLEMENTATION OF TERRESTRIAL DIGITAL TELEVISION IN THE REPUBLIC OF MOLDOVA
Mihail I. IACOB, Yurie I. DEMCIUC, Ion A. AVRAM

6 DESIGN AND DEVELOP BB84 PROTOCOL
Octavian RĂDUCANU, Cristina BODOGA

7 LEVERAGING BLOCKCHAIN TECHNOLOGY TO ASSURE SECURITY OF SDN
Ali AMEEN

8 ANALYSIS OF ROUTING TECHNIQUES IN MOBILE AD-HOC NETWORKS
Claudia HLOPEANICOV

**Section: Research and Education for Knowledge – based
Society**

25 October 2019, 9³⁰ – 13⁰⁰, ROOM: 3-318

Co-chairs: *M. Braga*
E. Lozovanu

1 **THE PBL MODEL IMPLEMENTATION WITHIN THE SOFTWARE ENGINEERING STUDY PROGRAM**
Dumitru CIORBĂ, Irina COJUHARI

2 **ACTIVE LEARNING OF NETWORKING IN THE GNS3 VIRTUALIZED ENVIRONMENT**
Victor MORARU, Emilian GUȚULEAC, Viorel CĂRBUNE

3 **THE BENEFICIAL EFFECTS OF E-GOVERNANCE FOR MOLDOVAN SOCIETY**
Cristina LAZARIUC

4 **COMPUTER ETHICS – PROBLEMS AND SOLUTIONS**
Ecaterina LOZOVANU

5 **MENTORING ENGINEERING STUDENTS**
Elena GOGOI

11⁰⁰ – 11³⁰

Coffee Break

6 **INFORMATION TECHNOLOGIES AS A MEANS OF ACTIVATING THE TRAINING ACTIVITY**
Elena PAXIMADI

7	VIRTUAL CLASSROOM IN THE DIGITAL AGE: CONCEPT, PRODUCT AND APPLICABILITY <i>Natalia BURLACU</i>
8	THE ROLE OF HUMANITARIAN DISCIPLINES FOR ENGINEERS <i>Viorelia LUNGU</i>
9	THE THEORY OF INVENTIVE PROBLEM SOLVING <i>Vitalie MAFTEI</i>

Posters Presentation

25 October 2019, 14.00-16.00, ROOM 6-2

Co-chairs: *V. Ababii*
Gh. Ceban
A. Turcan

1 **ACCELERATED VECTOR ANIMATION SOFTWARE**
Alexei CRIŞAVIŢCHI, Dorian SARANCIUC

2 **PROGRAMMING THE NAO ROBOT FOR HUMAN INTERACTION**
Lilia ROTARU, Stanislav SĂNDUŢĂ, Valeria UNGUREANU

3 **MODELING OF SENSOR NETWORKS WITH LIMITED ACCESS TO THE COMMUNICATION RESOURCES**
Dimitri BORDIAN, Constantin ABABII, Mariana OSOVSCHI, Olesea BOROZAN, Ana TURCAN, Dmitri CALUGARI

4 **MONITORING OF RIVER-TYPE AQUATIC ECOSYSTEMS FOR FORECASTING THE POLLUTANT SPREADING PROCESS**
Victor ABABII, Viorica SUDACEVSCHI, Rodica BRANISTE, Gheorghe CEBAN, Dimitrie BORDIAN, Olesea BOROZAN

5 **PARALLEL COMPUTING FOR MULTI-DIMENSIONAL SIGNALS ACQUISITION AND PROCESSING**
Dmitri CALUGARI, Constantin ABABII, Mariana OSOVSCHI, Ana TURCAN, Dimitri BORDIAN, Olesea BOROZAN

6	COGNITIVE COMPUTING SYSTEM BASED ON DISTRIBUTED KNOWLEDGE <i>Viorica SUDACEVSCHI, Silvia MUNTEANU, Victor ABABII, Rodica BRANISTE, Oleseă BOROZAN, Victoria ALEXEI</i>
7	DEVELOPED AND IMPLEMENTED THE PROGRAMMER FOR AVR AND PIC MICROCONTROLLERS, BASED ON PIC32MX MICROCONTROLLER THROUGH SPI + DMA <i>Victor POPA</i>
8	HARDWARE-SOFTWARE COMPLEX FOR DEFINING THE CRITICAL FLICKER FUSION FREQUENCY (CFSM) USING RASPBERRY PI <i>Alexandr ROMANENKO, Ludmila DUCA, Rodica BRANISTE</i>
9	ADAPTIVE COMPUTING ARCHITECTURES FOR REAL-TIME APPLICATIONS <i>Constantin ABABII, Silvia MUNTEANU, Radu MELNIC, Mariana OSOVSCHI, Dimitri BORDIAN</i>
10	DETERMINATION OF THE CHARGE CARRIER SYSTEM PARAMETERS IN Pb_{0.82}Sn_{0.18}Te <i>D. MEGLEI and S. ALEKSEEVA</i>
11	ON MAINTAINING OPTIMAL CONDITIONS FOR MANAGING INFORMATION FLOWS IN TELECOMMUNICATION NETWORKS <i>Ana NISTIRIUC, Victor ABABII, Andrei CHIHAI, Pavel NICOLAEV, Ion NISTIRIUC, Nicolae BEJAN, Pavel NISTIRIUC</i>

12	SYNTHESIS OF THE AUTO-TUNED PID CONTROLLER TO THE INERTIAL OBJECT <i>Anatolii BALABANOV, Bartolomeu IZVOREANU, Mihail POTLOG, Ion FIODOROV, Irina COJUHARI, Dumitru MORARU</i>
13	AUTOMATIC CONTROL SYSTEM FOR CROP CULTIVATION <i>Ion FIODOROV, Irina COJUHARI, Bartolomeu IZVOREANU, Dumitru MORARU, Eugeniu BALABAN</i>
14	MONITORING SOFTWARE FOR CROP CULTIVATION <i>Ion FIODOROV, Irina COJUHARI, Bartolomeu IZVOREANU, Dumitru MORARU, Gheorghe VASILIU</i>
15	DECISION-MAKING PROCESSES FOR INTELLIGENT AGENTS <i>Inga LISNIC, Sergiu SCROB, Irina COJUHARI</i>
16	ANGLE DEPENDENCE OF THE MAGNETORESISTANCE IN BI NANOWIRES <i>Leonid KONOPKO, Albina NIKOLAEVA, Tito HUBER, Krzysztof ROGACKI</i>
17	MAGNETO- SEEBECK COEFFICIENT Bi_{1-x}Sb_x MICROWIRES FOR THERMOELECTRIC APPLICATIONS <i>Albina NIKOLAEVA, Leonid KONOPKO, Tito HUBER, Ivan POPOV, Anna KOBLYANSKAY</i>

18	INFLUENCE ELASTIC DEFORMATION AND MAGNETIC FIELD ON MAGNETO- THERMOELECTRIC PROPERTIES Bi, Bi_{1-x}Sb_x SEMIMETAL WIRES <i>Pavel BODIUL, Gheorghe PARA, Anna KOBLYANSKAY, Evghenii ISTRATE, Evghenii MOLOSHNIK</i>
19	ELABORATION OF A TRAINING SYSTEM AND ALGORITHM TO IMPROVE BATTERIES PERFORMANCE <i>Serghei TINCOVAN</i>
20	ESTIMATION OF PARAMETERS OF A RECEIVED SIGNAL IN A SINGLE-FREQUENCY NETWORK DVB-T2 <i>Mihail I. IACOB, Yurie I. DEMCIUC, Ion A. AVRAM</i>