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# Contents

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>xiii</td>
<td>Conference Committees</td>
</tr>
</tbody>
</table>
xvii| Introduction |

## PLENARY SESSION

7297 02 **Coloring effects of a beam traversing a light-scattering medium (Invited Paper)** [7297-01]
O. V. Angelsky, P. P. Maksimyak, A. P. Maksimyak, A. L. Negrych, Yuriy Fedkovych Chernivtsi National Univ. (Ukraine)

7297 03 **New composite materials for optoelectronic applications (Invited Paper)** [7297-02]
M. S. Iovu, S. A. Buzurniuc, V. I. Verlan, I. P. Culeac, Y. H. Nistor, Institute of Applied Physics (Moldova)

7297 04 **Diffraction experiments with the spatial light modulator: the boundary between physical and digital optics (Invited Paper)** [7297-03]
P. C. Logofatu, A. Sima, D. Apostol, National Institute for Lasers, Plasma and Radiation Physics (Romania)

7297 05 **About the new architecture of quantum communication (Invited Paper)** [7297-04]
N. A. Enaki, Institute of Applied Physics (Moldova)

## ADVANCED MATERIALS AND NEW TECHNOLOGIES

7297 06 **The dynamics of optical bistability layer crystals** [7297-05]
C. Yu. Zenkova, Chernivtsi National Univ. (Ukraine)

7297 07 **Simulations of dilute nitride quantum well InGaAsN semiconductor lasers** [7297-06]
A. Drăguinescu, Politehnica Univ. of Bucharest (Romania); A. Laakso, M. Dumitrescu, M. Guină, Tampere Univ. of Technology (Finland)

7297 08 **Functionalized self-assembly of gold nanoparticles functionalized with amino acids and aleurone globular protein** [7297-07]
M. Tomoaia-Cotisel, A. Mocanu, O. Horovitz, Babes-Bolyai Univ. (Romania); E. Indrea, National Institute for Research and Development of Isotopic and Molecular Technologies (Romania); G. Tomoaia, Iuliu Hatieganu Univ. of Medicine and Pharmacy (Romania); I. Bratu, National Institute for Research and Development of Isotopic and Molecular Technologies (Romania)

7297 09 **The replacing material for axial washer at the planetary reduction gears for actuators** [7297-08]
V. Nasui, North Univ. of Baia Mare (Romania)
| 7297 0A | **Singularities of the Poynting vector azimuth in heterogeneously polarized vector fields** [7297-09]  
I. Mokhun, R. Khrobatin, Ju. Viktorovskaya, Chernivtsi National Univ. (Ukraine) |
| 7297 0B | **Study of the transitory formation of $\alpha_1$ bainite, as a precursor of $\alpha$-phase in tempered SMAs** [7297-10]  
L. G. Bujoreanu, S. Stanciu, P. Bârsănescu, N. M. Lohan, Gh. Asachi Technical Univ. of Iaşi (Romania) |
| 7297 0C | **A structural-morphological study of a Cu$_{63}$Al$_{26}$Mn$_{11}$ shape memory alloy** [7297-11]  
S. Stanciu, L. G. Bujoreanu, I. Ioniță, Gh. Asachi Technical Univ. of Iaşi (Romania); A. V. Sandu, Romanian Inventors Forum (Romania); A. Enache, Gh. Asachi Technical Univ. of Iași (Romania) |
| 7297 0D | **Flat lens made of metamaterials** [7297-12]  
G. Gavriloaia, Univ. of Pitesti (Romania); T. S. cel Mare, Military Technical Academy (Romania); R. Fumarel, Oncologic Institute of Bucharest (Romania) |
| 7297 0E | **Jitter measurements in a 1550 nm mode-locked laser** [7297-13]  
A. Drăgulinescu, Politehnica Univ. of Bucharest (Romania); R. Herda, M. Guină, Tampere Univ. of Technology (Finland) |
| 7297 0F | **Simulations of 462 nm InGaN quantum well semiconductor lasers** [7297-14]  
A. Drăgulinescu, Politehnica Univ. of Bucharest (Romania); A. Laakso, M. Dumitrescu, M. Guină, Tampere Univ. of Technology (Finland) |
| 7297 0G | **Hydrotalcite-like anionic clays substituted with iron / laccase, composites for biosensors applications** [7297-15]  
G. Carja, G. Ciobanu, G. Apostolescu, S. Dranca, N. Apostolescu, Gh. Asachi Technical Univ. of Iaşi (Romania) |
| 7297 0H | **Advanced new materials with various applications** [7297-16]  
F. Radu-Claudiu, I. Rodica-Mariana, D. Irina, National Institute for Reasearch and Development for Chemistry and Petrochemistry (Romania) and Valahia Univ. (Romania) |
| 7297 0I | **The physicochemical properties of polyurethane membranes determined by swelling measurements** [7297-17]  
G. Ciobanu, G. Carja, G. Apostolescu, N. Apostolescu, Gh. Asachi Technical Univ. of Iaşi (Romania) |
| 7297 0J | **Pin-in-paste DFM constraints in vapor phase soldering technology for optoelectronic components** [7297-18]  
I. Piotog, Politehnica Univ. of Bucharest (Romania); G. Varzaru, C. Turcu, Intrarom S.A. (Romania); T. C. Cucu, P. Svasta, A. Vasile, Politehnica Univ. of Bucharest (Romania) |
| 7297 0K | **Atomic absorption spectrophotometry for the analysis of metal contents in tobacco samples** [7297-19]  
O. Iancu, P. Schiopu, I. Cristea, V. Voinea, N. Grosu, A. Craciun, Politehnica Univ. of Bucharest (Romania) |
The activation energy and kinetic of the nanocrystallization process of Al<sub>85</sub>Ni<sub>9</sub>Nd<sub>4</sub>Co<sub>2</sub> amorphous alloy [7297-20]

V. A. Serban, C. Codrean, C. Opris, D. Utu, M. Lita, Politehnica Univ. of Timisoara (Romania)

Preparation of titanium dioxide films by sol-gel route for gas sensors [7297-21]

V. Schiopu, A. Matei, I. Cernica, C. Podaru, National Institute for Research and Development in Microtechnologies (Romania)

Load capacitance effect on frequency-temperature characteristics of AT-cut quartz crystals [7297-22]

A. Anghelescu, Rom-Quartz (Romania)

Preparation and characterization of TiO<sub>2</sub>–polymer composite films [7297-23]

A. Matei, I. Cernica, V. Schiopu, National Institute for Research and Development in Microtechnologies (Romania)

New actuation systems based on shape memory alloys [7297-24]

D. Mândru, I. Lungu, S. Noveanu, O. Tătar, Technical Univ. of Cluj-Napoca (Romania)

Synthesis and characterization of photochromic polymeric materials [7297-25]

I. Ionită, Univ. Valahia din Târgovişte (Romania); A.-M. Albu, Politehnica Univ. of Bucharest (Romania) and Ctr. for Organic Chemistry (Romania); C. T. Mihăilă, Politehnica Univ. of Bucharest (Romania); C. Rădulescu, E. I. Moater, Univ. Valahia din Târgovişte (Romania)

Material removal by the electrical microdischarges [7297-26]

L. Slătineanu, M. Coteaţă, O. Dodun, D. Anton, A. Iosub, Gh. Asachi Technical Univ. of Iaşi (Romania)

New coordination compounds of Cr(III) used in leather tanning [7297-27]

M. Crudu, Bucuresti Sucursala Institutul de Cercetare Pielarie (Romania); D. Sibiescu, I. Rosca, D. Sutiman, M. Viziţiu, G. Apostolescu, Gh. Asachi Technical Univ. of Iaşi (Romania)

Studies of obtaining and stability in aqueous medium of new complex compounds of Ti(IV) and Zr(IV) used in ecological leather tanning [7297-28]

M. Crudu, Bucuresti Sucursala Institutul de Cercetare Pielarie (Romania); D. Sibiescu, I. Rosca, D. Sutiman, M. Viziţiu, Gh. Asachi Technical Univ. of Iaşi (Romania)

Electrochemical atomic force microscopy in supporting the control of diffusion process [7297-29]

M. Mîndroiu, I. Demetrescu, Politehnica Univ. of Bucharest (Romania)

Influence of the light irradiation on optical characteristics of As<sub>2</sub>(S<sub>2</sub>Se<sub>1-x</sub>)<sub>3</sub> thin films obtained from chemical solutions [7297-30]

M. S. Iovu, S. A. Buzurniuc, V. I. Verlan, A. Prisacari, L. Malahov, Institute of Applied Physics (Moldova)

The kinetic of the two-photon lasing with one and two quanta cavity losses [7297-32]

N. Enaki, M. Turcan, Institute of Applied Physics (Moldova)
New hot wire anemometer with alternate current and synchronic detection [7297-33]
M. Stoian, Constanta Maritime Univ. (Romania); A. Rachek, M. Chirtoc, Reims Univ.
Champagne-Ardenne (France)

Nanostructured systems which exhibit a fairly large magnetoresistance near room temperature [7297-34]
C. Doroftei, A.I. Cuza Univ. (Romania); E. Rezlescu, N. Rezlescu, P. D. Popa, National Institute of Research and Development for Technical Physics (Romania)

Expert system for molded polymeric material [7297-35]
A. Nita, Constanta Maritime Univ. (Romania)

Interference of cooperative resonant fluorescence from two distant systems of atoms [7297-36]
E. Galeamov, N. Enaki, Institute of Applied Physics (Moldova)

Optical absorption and photoconductivity of As$_2$Se$_3$:Sn and Sb$_2$Se$_3$:Sn thin film structures [7297-37]
M. A. Iovu, M. S. Iovu, I. A. Vasiliev, D. V. Harea, I. A. Cajocaru, E. P. Colomeico, Institute of Applied Physics (Moldova); O. I. Shpotyuk, Scientific Research Co. Carat (Ukraine)

Restoration of the scalar field on the base of the analysis of stationary points network [7297-38]
Yu. Galushko, I. Mokhun, Chernivtsi National Univ. (Ukraine)

DIFFRACTIVE, MICRO OPTICS AND OPTICAL SIGNAL PROCESSING

Human body thermal images generated by conduction or radiation heat [7297-39]
G. Gavriloaia, E. Sofron, Univ. of Pitesti (Romania); R. Fumarel, Oncologic Institute of Bucharest (Romania)

On polarization manifestations of correlation (intrinsic coherence) of optical fields [7297-40]
O. V. Angelsky, S. B. Yermolenko, C. Yu. Zenkova, A. O. Angelskaya, Chernivtsi National Univ. (Ukraine)

Conversion from a spectral image to HDR image [7297-41]
T. Florin, National Institute for Research and Development of Isotopic and Molecular Technologies (Romania)

Color processing in a digital camera pipeline [7297-42]
T. Florin, National Institute for Research and Development of Isotopic and Molecular Technologies (Romania)

Photoluminescence properties of CdS/PVA nanocomposite thin films [7297-43]
I. Caraman, Bacau Univ. (Romania); S. Robu, P. Găsin, Moldova State Univ. (Moldova); I. Lazar, G. Lazar, M. Stamate, Bacau Univ. (Romania)

IntelliWave interferometric analysis software in laser interferometry laboratory [7297-44]
B. Ionita, M. Rosu, D. Apostol, A. Sima, V. Damian, National Institute for Laser Plasma and Radiation Physics (Romania); I. Cristea, Politehnica Univ. of Bucharest (Romania)
7297 19 Simulation of the optical part of an image capture system [7297-45]
T. Florin, National Institute for Research and Development of Isotopic and Molecular Technologies (Romania)

7297 1A Combinational logical circuits into ternary logic [7297-46]
V. Degeratu, Ş. Degeratu, O2Micro Romania (Romania) and Politehnica Univ. of Bucharest (Romania); P. Şchiopu, C. Şchiopu, Politehnica Univ. of Bucharest (Romania)

7297 1B Nano-β-tricalcium phosphate/collagen materials with improved biostability for bone replacement applications [7297-47]
O. Craciunescu, National Institute for Biological Sciences (Romania); C. Tardei, ICPE SA (Romania); L. Moldovan, National Institute for Biological Sciences (Romania)

7297 1C Experimental study aiming to establish specific characteristics of stationary optical processes [7297-48]
C. Gruescu, Politehnica Univ. Timisoara (Romania); C. Dumache, S.C. Optica Timisoara (Romania); I. Nicoara, Politehnica Univ. Timisoara (Romania); E. Tonea, Univ. of Agricultural Sciences Banatul Timisoara (Romania)

7297 1D Binary neuron with optical devices [7297-49]
V. Degeratu, Ş. Degeratu, O2Micro Romania (Romania) and Politehnica Univ. of Bucharest (Romania); P. Şchiopu, C. Şchiopu, Politehnica Univ. of Bucharest (Romania)

7297 1E Modelling of the Bragg gratings fabricated on Er3+-doped Ti:LiNbO3 optical waveguides [7297-50]
L. A. Puscas, E. M. Rotar, Institute for Electrotechnics (Romania); R. Galatus, Univ. Tehnica Cluj-Napoca (Romania); N. N. Puscas, Politehnica Univ. of Bucharest (Romania)

7297 1F Surface structure of CdS layer at the interface of CdS-SnO2 junction and the diagram of surface states [7297-51]
I. Caraman, I. Lazar, M. Caraman, D. Rusu, Univ. din Bacau (Romania)

7297 1G Nano-metrology of macro-systems [7297-52]
F. Garoi, D. Apostol, National Institute for Laser, Plasma and Radiation Physics (Romania); P. Şchiopu, Univ. Politehnica Bucuresti (Romania); P. C. Logofatu, V. Damian, National Institute for Laser, Plasma and Radiation Physics (Romania)

7297 1H White light interferometry applications in nanometrology [7297-53]
V. Damian, M. Bojan, Institutul National Institute for Laser, Plasma and Radiation Physics (Romania); I. Iordache, B. Ionita, D. Apostol, National Institute for Laser, Plasma and Radiation Physics (Romania)

7297 1I High accuracy length measuring set up for optical encoder calibration [7297-54]
I. Iordache, National Institute for Laser, Plasma and Radiation Physics (Romania); O. Iancu, P. Şchiopu, Politehnica Univ. of Bucharest (Romania); D. Apostol, National Institute for Laser, Plasma and Radiation Physics (Romania)

7297 1J Quasi-periodic structure analysis by digital holography [7297-55]
M. Mihaiescu, A. Preda, Politehnica Univ. of Bucharest (Romania); A. Sobetkii, S.C. Opticoat SRL (Romania); E. Scarlat, L. Preda, Politehnica Univ. of Bucharest (Romania)
| 7297 1K | Wideband array processing with constant beam pattern beyond the spatial sampling limit [7297-56] |
| 7297 1L | Nanopolishing: parameters and techniques [7297-57] |
| 7297 1M | Guided and leaky modes in hexagon-type silicon-on-insulator slabs [7297-58] |
| 7297 1N | Heat transfer in minichannels and microchannels CPU cooling systems [7297-59] |
| 7297 1O | Experimental measuring of solitonic pulse stability for different configurations of the ring [7297-60] |
| 7297 1P | Braided artificial muscles: modeling and experimental validation [7297-61] |
| 7297 1Q | Nanostructure of ion channels [7297-62] |
| 7297 1R | On the nonlocal simulation of nanoindentation problems [7297-63] |
| 7297 1S | Shallow acceptors in a quantum well under intense laser fields [7297-64] |
| 7297 1T | Mössbauer backscattering measurements on Sn [7297-65] |
| 7297 1U | Effects of laser field on the energy spectra in GaAs parabolic quantum wells [7297-66] |
| 7297 1V | A two paths mode-locked fiber laser [7297-67] |

NANOSCIENCE/NANOENGINEERING AND NANOTECHNOLOGIES
The modern instrumentation used for monitoring and controlling the main parameters of the regenerative electro-mechano–hydraulic drive systems [7297-68]
C. Cristescu, P. Drumea, P. Krevey, National Institute of Research & Development for Optoelectronics (Romania)

On-line interactive virtual experiments on nanoscience [7297-69]
M. Kadar, I. Ileana, C. Hutanu, 1 Decembrie 1918 Univ. (Romania)

Development methods using nanorobotics and fractal geometry [7297-71]
G. T. Raicu, P. C. Arsenie, Constanta Maritime Univ. (Romania)

Advanced concepts in nanomanipulations [7297-72]
G. T. Raicu, C. I. Stanca, Constanta Maritime Univ. (Romania)

INSTRUMENTS, SENSORS, AND MICROSYSTEMS

A new approach to RF MEMS shunt switch modeling from K-band up to W-band [7297-73]
V. Puyal, D. Dragomirescu, R. Plana, Toulouse Univ. (France)

Dual mode 1.25–2.5 Gb/s CMOS limiting amplifier circuit for optical receivers [7297-74]
C. M. Albina, GME mbH (Germany)

Microwave power divider based on metamaterials [7297-75]
G. Gavriloaia, Univ. of Pitesti (Romania); A. Voiculet, Military Technical Academy (Romania); R. Fumarel, Oncologic Institute of Bucharest (Romania)

Photonic metallic nanostructures in photodynamic therapy [7297-76]
R.-M. Ion, R. C. Fierascu, I. Dumitriu, Institutul National de Cercetare (Romania) and Valahia Univ. (Romania)

Developing a miniaturized continuous flow electrochemical cell for biosensor applications [7297-77]
M. Ilie, Consiglio Nazionale delle Ricerche (Italy) and Politehnica Univ. of Bucharest (Romania); E. Ovreiu, Politehnica Univ. of Bucharest (Romania); R. Dejana, V. Foglietti, Consiglio Nazionale delle Ricerche (Italy); L. Nardi, A. Masci, B. Lanza, L. Della Seta, M.-R. Montereali, W. Vastarella, R. Pilotton, ENEA (Italy)

Implementation of a high resolution velocity sensor using an optical quadrature shaft encoder for electromechanical linear actuators [7297-78]
V. Nasui, A. Buchman, Univ. de Nord Baia Mare (Romania)

Clock offset estimation in wireless sensor networks using robust M-estimation [7297-79]
J. Lee, J. Kim, K. Qaraqe, E. Serpedin, Texas A&M Univ. (United States)

Wireless sensor network for remote monitoring of parameters in distribution points of district utilities for heat and water [7297-80]
A. Drumea, Politehnica Univ. of Bucharest (Romania); I. Ilie, Institute for Hydraulics and Pneumatics (Romania); A. Vasile, P. Svasta, A. Tapu, Politehnica Univ. of Bucharest (Romania)
Hardware simulator of a tin dioxide sensor array for urban pollution monitoring [7297-81]
F. Caldararu, Ecosen Ltd. (Romania); A. Vasile, Politehnica Univ. of Bucharest (Romania); S. Caldararu, National Agency for Dangerous Substances (Romania)

Nanodetection of the disinfection by-products on GC-MS techniques [7297-82]
D. Ristoiu, M. Haydee, Babes-Bolyai Univ. (Romania); T. Ristoiu, Technical Univ. of Cluj-Napoca (Romania)

Smart data acquisition system for utilities metering [7297-83]
I. Ileana, M. Risteiu, A. Tulbure, M. Rusu, 1 Decembrie 1918 Univ. (Romania)

The Fuzzy System Classifier using an intelligent mattress [7297-84]
M. Hnatiuc, G. Caruntu, Constanta Maritime Univ. (Romania); V. Sarbu, Ovidius Univ. of Constantza (Romania)

Coupling devices for smart transducers with optical fiber link used in automotive industry [7297-85]
A. Vasile, Politehnica Univ. of Bucharest (Romania); I. Vasile, Romtelecom (Romania); F. Caldararu, Ecosen Ltd. (Romania); P. Schiopu, A. Drumea, A. Tapu, Politehnica Univ. of Bucharest (Romania)

Experimental research upon accommodating the functional parameters of a laser controlled system designed for a grading machinery with the actual operating conditions of the grading machinery [7297-86]
T. C. Popescu, M. Blejan, G. Soșia, National Institute of Research & Development for Optoelectronics (Romania)

Signal conditioner for LVDT displacement sensors [7297-87]
M. Blejan, I. Ilie, M. Comes, B. Lupu, National Institute of Research & Development for Optoelectronics (Romania)

Mechatronic module for monitoring the hydraulic parameters of the industrial production equipments [7297-88]
M. Blejan, P. Drumea, National Institute of Research & Development for Optoelectronics (Romania); A. Mirea, SC ROMFLUID SA (Romania); I. Ilie, National Institute of Research & Development for Optoelectronics (Romania)

Recent developments in surface acoustic wave sensors [7297-89]
P. Schiopu, I. Cristea, N. Grosu, A. Craciun, Politehnica Univ. of Bucharest (Romania)

A method for reliability estimation of heterogeneous systems [7297-90]
A. Mihalache, Univ. d'Angers (France) and Politehnica Univ. of Bucharest (Romania); F. Guerin, M. Barreau, A. Todoskoff, Univ. d'Angers (France); I. Bacivarov, A. Bacivarov, Politehnica Univ. of Bucharest (Romania)

Magnetic/temperature sensors and their electrical transport properties [7297-91]
D. Luca, Gh. Asachi Technical Univ. of Iași (Romania); M. L. Craus, National Institute of Research & Development for Technical Physics (Romania) and Joint Institute of Nuclear Research (Russian Federation); C. Miia, N. Cornei, Al. I. Cuza Univ. (Romania); M. Lozovan, National Institute of Research & Development for Technical Physics (Romania); G. Paicu, Gh. Asachi Technical Univ. of Iași (Romania)
The La_{0.54}Sm_{0.11}Ca_{0.35}MnO_{3} perovskites doped with Cu for the sensor [7297-92]
D. Luca, Gh. Asachi Technical Univ. of Iaşi (Romania); M. L. Craus, National Institute of Research and Development for Technical Physics (Romania) and Joint Institute of Nuclear Research (Russian Federation); N. Cornei, Al.I. Cuza Univ. (Romania); C. Fosalau, Gh. Asachi Technical Univ. of Iaşi (Romania); C. Mita, Al.I. Cuza Univ. (Romania); M. Lozovan, National Institute of Research and Development for Technical Physics (Romania)

Simulation by FEM of sheet metal electromagnetic forming processes [7297-93]
D. Luca, Gh. Asachi Technical Univ. of Iaşi (Romania)

Quality assurance and management in microelectronics companies: ISO 9000 versus Six Sigma [7297-94]
R. Lupan, Univ. d’Angers (France) and Politehnica Univ. of Bucharest (Romania); A. Kobi, C. Robledo, Univ. d’Angers (France); I. Bacivarov, A. Bacivarov, Politehnica Univ. of Bucharest (Romania)

The optimization of bipolar magnetotransistor structures [7297-95]
M. Hnatiuc, G. Căruntu, Constanta Maritime Univ. (Romania)

The offset equivalent magnetic induction for Hall microsensors [7297-96]
G. Căruntu, C. Panait, Constanta Maritime Univ. (Romania)

On the stability of MOS Hall devices [7297-97]
G. Căruntu, C. Panait, Constanta Maritime Univ. (Romania)

The noise main characteristic for magnetic microsensors structures [7297-98]
C. Panait, Constanta Maritime Univ. (Romania); V. Sărbu, Univ. Ovidius Constanta (Romania); G. Căruntu, Constanta Maritime Univ. (Romania)

Two basic types unipolar and bipolar for stepper motor driving [7297-99]
C. V. Vali, Constanta Maritime Univ. (Romania)

Measuring of a fuel injector in a supersonic air stream [7297-100]
L. Stan, Constanta Maritime Univ. (Romania); I. Calimanescu, Kalion Consulting (Romania); N. Buzbuchi, Constanta Maritime Univ. (Romania)

Testing of a fuel injector in a supersonic air stream [7297-101]
L. Stan, Constanta Maritime Univ. (Romania); I. Calimanescu, Kalion Consulting (Romania); N. Buzbuchi, Constanta Maritime Univ. (Romania)

The MBOC modulation [7297-102]

Recovery energy from ship propulsion system based on microelectronic technology [7297-103]
F. Iordanoaia, Constanta Maritime Univ. (Romania); M. Nicorescu, Daewoo Mangalia (Romania)

Author Index
Conference Committees

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Introduction

The Conference Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies IV, ATOM-N 2008 is hosted in Constanta, one of the most important academic, cultural, and industrial centres in Romania, is located in the historical region of Dobrogea. This year’s conference sessions will mark eight years of Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies existence, during which it has permanently gathered the youth spirit, as well as the experience of the most appreciated scientists in the field of micro and nanotechnology in optoelectronics: a domain that has been instrumental in scientific applications worldwide.

Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies, ATOM-N 2008 has gathered a high number of papers. We have received over 140 abstracts from all over Europe and the United States. Due to the efforts of the Scientific and Program Committee, 104 papers by authors from 10 countries were selected for presentation: 4 invited lectures, 30 oral lectures, and 70 poster papers. We would like to express our thanks to the Organizing Committee for their enthusiastic and efficient work. We would like to extend our warmest thanks to all authors that attended the conference to present their scientific work.

In the name of the organizers, we are pleased to welcome you at the fourth edition of the Conference Advanced Topics in Optoelectronics, Microelectronics, and Nanotechnologies, held at Maritime University. We wish to all the participants to this prestigious meeting, to have both an interesting professional experience as well as moments of relaxation, while discovering the multicultural aspects of the academic city of Constanta. We would like to thanks to the organizations that offered us assistance and support to organize the conference:

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