CONFERENCE PROGRAM

Thursday, August 21		
08.00-10.30	***Registration, Accommodation***	
	Distribution of the conference materials	
10.30-10.45	***Opening Session***	
10.45-13.45	***Plenary Session*** ***Chairs :*** *Cornel Panait, Violeta-Vali Ciucur, Paul Schiopu, Marian Vladescu, Razvan Tamas*	
13.50	***Photo Remember ATOM-N 2014*** *Dan Cariga*	
14.30-15.30	***Lunch***	
16.00-17.20	***Oral Session 1: Advanced materials and new technologies*** ***Chairs :*** *Bogdan Hnatiuc, Ana Maria Catargiu*	
	Oral Session 2: Diffractive, micro optics /optical and non-optical signal processing ***Chairs :*** *Dorin Dadarlat, Florin Toadere*	
18.00	***Welcome cocktail***	
Friday, August 22		
09.00-10.00	**Key Presentation** **Frontiers in developing III-V optoelectronic materials: technology and new applications,** Mircea Guina	
10.00-10.30	**Agilrom Scientific Presentation** Alin Mogos	
10.30-13.30	**Oral Session 3: Sensors. microsystems, and instruments** **Chairs :** Cristian Viespe, Adrian Tulbure / Petre Cătălin Logofătu, A.A. Popescu	
	Oral Session 4: Modeling, design and simulation **Chairs :** Ioan Ileana, Ioan Plotog / Emil M. Oanta, Nicolae Militaru	
14.00-15.00	***Lunch***	
15.30-19.30	***Posters Session 1*** ***Chairs :*** *Victor Damian, Cornel Suciu*	
19.30	***Dinner***	
Saturday, August 23		
08.20-09.40	**Oral Session 5: Micro/nanophotonics and micro/nanotechnologies** **Chairs :** Nicolae Enaki, Claudia Yu. Zenkova	
09.40-11.20	**Special workshop:** **Monitoring of Electrical Tranzient Signals by Using Smart Sensors Network** **Chairs :** Cornel Ioana, Ion Candel	
11.20-13.30	**Posters Session 2** **Chairs :** Marian Vladescu, Daniela Elena Mitu	
14.00-15.00	**Lunch**	
15.00-16.30	**Posters Session 2** **Chairs :** Liviu Constantin Stan, Mirel Paun	
16.30-19.30	**Cultural Program** **Chairs :** Ana Dumitrascu, Alexandru Caranica	
19.30	**Conference Dinner and Student Awards**	
Sunday, August 24		
09.30-11.00	**Round Table**	
11.30	**Closing Session**	

10.45-13.45
PLENARY SESSION

10.45 - Introduction to Compressive Sampling and Applications in THz Imaging (invited)
Daniela Coltuc, *Politehnica University of Bucharest, Romania*

11.15- Alternative Applications of the Method of Moments: from Electromagnetic Waves to Source Synthesis, Deconvolution, and Data Processing in Navigation Systems (invited)
Razvan D. Tamas, *Constanta Maritime University, Romania*

11.45 - Advanced intelligent control methods in open architecture systems for cooperative works on 4 nano-micro-manipulators platform (invited)
Victor Vladareanu, *Institute of Solid Mechanics of the Romanian Academy, Romania*

12.15 - Photoluminescence of Some Chalcogenide Glasses Doped with Rare-earth Ions (invited)
Mihail Iovu, *Institute of Applied Physics of Academy of Sciences of Moldova, Republic of Moldova*

12.45 - Phenomenological model of growth of TiO_2 films for nano-biomedicine (invited)
N. Enaki, *Institute of Applied Physics of Academy of Sciences of Moldova, Republic of Moldova*

THURSDAY, AUGUST 21

16.00-17.20
Oral Session 1: ADVANCED MATERIALS AND NEW TECHNOLOGIES

16.00-16.20- Advanced Educational Program in Optoelectronics for Undergraduates and Graduates in Electronics,
Marian Vladescu, *Politehnica University of Bucharest, Romania*

16.20-16.40- New dielectric elastomers with improved properties for energy harvesting and actuation
George Stiubianu, *Inorganic Polymers Laboratory, Petru Poni Institute of Macromolecular Chemistry, Iasi, Romania*

16.40-17.00- New conjugated polymers based on 3,6- and 2,7- carbazole linked by phenylene ethynylene segments for optoelectronic applications
Ana-Maria Catargiu, *P. Poni" Institute of Macromolecular Chemistry, Iaşi, Romania*

17.00-17.20- Influence of GlidArc treatment on layers formation of biofouling
Bogdan Hnatiuc, *Constanta Maritime University, Romania*

18.00 - Welcome cocktail

THURSDAY 21 AUGUST

16.00-17.20
Oral Session 2: DIFFRACTIVE, MICRO OPTICS /OPTICAL AND NON-OPTICAL SIGNAL PROCESSING

16.00-16.20- Diffraction grating formation during holographic recording in As2S3 thin films
Alexei Meshalkin, *Institute of Applied Physics, Academy of Sciences of Moldova, Republic of Moldova*

16.20-16.40- Thermoelectrics (TE) used as detectors of radiation. An alternative calorimetry based on the photothermoelectric (PTE) effect.
D. Dadarlat, *Department of Molecular and Biomolecular Physics, National R&D Institute for Isotopic and Molecular Technologies, Cluj-Napoca , Romania*

16.40-17.00- Spectral characterization of the effect of the amber filters on the color hues of an image
Florin Toadere, *Applied Optics Group,Univ. of Kent, Canterbury, UK*

17.00-17.20- Comparative spectral analysis between the functionality of the human eye and of the optical part of a digital camera
Florin Toadere, *Applied Optics Group,Univ. of Kent, Canterbury, UK*

FRIDAY, AUGUST 22

09.00-10.00 Key Presentation

Frontiers in developing III-V optoelectronic materials: technology and new applications (invited)
Prof. Mircea Guina, *Optoelectronics Research Centre, Tampere University of Technology, Finland*

10.00-10.30 Agilrom Scientific Presentation
Alin Mogos

10.30-13.30
Oral Session 3: SENSORS. MICROSYSTEMS, AND INSTRUMENTS

10.30-10.50- Design and Properties of Quartz Love Wave Surface Acoustic Waves Sensors
Cristian Viespe, *Laser Department, National Institute of Laser, Plasma and Radiation Physics, Magurele-Bucharest, Romania*

10.50-11.20- Creating a Transducer Electronic Datasheet using I2C Serial EEPROM Memory and PIC32-Based Microcontroller Development Board
Adrian Tulbure, *Dpartment of Precise and Engineering Sciences, "1 Decembrie 1918" University of Alba Iulia, Romania*

11.20-11.50- Tele-Monitoring System for Water Environments
George Suciu, *Politehnica University of Bucharest, Romania*

11.50-12.10- Design of Anti Burglar Alarm Systems
Aurelian Costea, *Politehnica University of Bucharest, Romania*

12.10-12.30- Surface plasmon resonance: Concept and applications for nano-sensors and optical active devices
A.A. Popescu, *National Institute of R&D for Optoelectronics INOE 2000, Magurele, Romania*

12.30-12.50- Physical Fourier encoding and compacting of optical data
Petre Cătălin Logofătu, *National Institute for Laser, Plasma and Radiation Physics, Magurele, Romania*

12.50-13.10- A maritime direction finding system based on global positioning system
Alin M. Danisor, *Maritime University of Constanta, Romania*

13.10-13.30- Spine lateral flexion strength development differences between exercises with pelvic stabilization and without pelvic stabilization
Straton Alexandru, *Maritime University of Constanta, Romania*

FRIDAY, AUGUST 22
10.30-13.30
Oral Session 4: MODELING, DESIGN AND SIMULATION

10.30-10.50- Spectral delay line for display control in swept source OCT
Florin Toadere, *Applied Optics Group, University of Kent, Canterbury, UK*

10.50-11.20- Thermal Image Filtering by Bi-dimensional Empirical Mode Decomposition
Gavriloaia Mihai-Bogdan , *Politehnica University of Bucharest, Romania*

11.20-11.50- Analysis and simulation of an automated LED lighting system for pedestrian crosswalk
Ioan Ileana,*"1 Decembrie 1918" University of Alba Iulia, Romania*

11.50-12.10- Investigations on Electroluminescent Tapes and Foilsin Relation to their Applications in Automotive
Ioan Plotog, *"Politehnica" University of Bucharest, Romania*

12.10-12.30- Material constraints on high speed design
Diana Bucur , *University Politehnica of Bucharest, Bucharest, Romania*

12.30-12.50- Applications of magneto-rheologic fluids in semi-active suspension systems
Andronic Florin, *Stefan cel Mare University of Suceava, Romania*

12.50-13.10- Roughness effect upon the flow of R134a refrigerant through rectangular microchannels,
Suciu Cornel, *Stefan cel Mare University of Suceava, Romania*

13.10-13.30- Original Computer Method for the Experimental Data Processing in Photoelsticity
Emil M. Oanta, *Maritime University of Constanta, Romania*

FRIDAY, AUGUST 22
15.30-19.30
POSTERS SESSION 1

PS 1- 1 Resonant Response of Electromagnetic Scattering from Ellipsoid,
Gavriloaia Gheorghe, *"Politehnica" University of Bucharest, Romania*

PS 1- 2 Frequency analysis of a semi-active suspension with magneto-rheological dampers
Andronic Florin, *Stefan cel Mare University of Suceava, Romania*

PS 1- 3 Wearable Sensors for Health Monitoring
George Suciu, *"Politehnica" University of Bucharest, Romania*

PS 1- 4 A Simulink-Modeled PV Module and Array
Emmanuel Taddy, *"Politehnica" University of Bucharest, Romania*

PS 1-5 Optimal control of real ambient LED lighting powering,
Gheorghe Marc, *Electronics Department, 1 Decembrie 1918 University, Alba Iulia, Romania*

PS 1-6 Smart power supply system for LED street lighting,
Mircea Risteiu, *Electronics Department, 1 Decembrie 1918 University, Alba Iulia, Romania*

PS 1-7 Photoluminescent Nanocomposite Materials Based on SBMA Copolymer and CdS
V. Verlan, *Institute of Applied Physics, Chisinau MD 2028, Republic of Moldova*

PS 1-8 Preparation and Characterization of CdSe Colloidal Quantum Dots by Optical Spectroscopy and 2D NMR ,V. Verlan, *Institute of Applied Physics, Chisinau MD 2028, Republic of Moldova*

PS 1-9 Steady-State Photoconductivity of amorphous (As4S3Se3)1-x:Snx Films
Oxana Iaseniuc, *Institute of Applied Physics, Academy of Sciences of Moldova, Republic of Moldova*

PS 1-10 Optical and Raman Spectra of As4S3Se3:Snx Glasses
Oxana Iaseniuc, *Institute of Applied Physics, Academy of Sciences of Moldova, Republic of Moldova*

PS 1-11 Optical characterization of the new nanocomposites SBMA/Eu(TTA)3(Ph3PO)2
Bordian Olga, *Institute of Applied Physic , Academy of Sciences of Moldova, Republic of Moldova*

PS 1-12 Nano-indentation investigations of (As2Se3)1-x: Snx and (As4S3Se3)1-x: Snx glasses
Harea Diana, *Institute of Applied Physics, Academy of Sciences of Moldova, Republic of Moldova*

PS 1-13 Preparation and Characterization of Ga2O3 and GaN Nanoparticles
E. Rusu, *Institute of Electronic Engineering and Nanotechnologies „D. Ghiţu" of the Academy of Sciences of Moldova, Republic of Moldova*

PS 1-14 Simulation of Electron Transfer in Trimer Nanocluster Embedded in Unstructured Nondissipative Matrix in External Electromagnetic Field
O.V. Yaltychenko, *Institute of Applied Physics, Academy of Sciences of Moldova,*

PS 1-15 Electron-beam recording of patterns in chalcogenide films
S.A. Sergeev/*Mihail Iovu, Institute of Applied Physics, Academy of Sciences of Moldova,*

PS 1-16 Nanomaterials based on Gold/Silver Nanoparticles-Kuromarin Chloride and their Applications in Medicine , Liliana Olenic, *National Institute for Research and Development of Isotopic and Molecular Technologies, Romania*

PS 1-17 The azobenzene derivatives
Ionica Ionita, *Valahia University of Targoviste, Faculty of Science and Arts,Romania*

PS 1-18 Analogy between "mission critical" detection in distributed systems and 13C Isotope Separation Column , Loredana Boca*, "1 Decembrie 1918"University of Alba Iulia, Romania*

PS 1-19 Theoretical study for Controlling the Regenerative Braking Energy
Emilian Ceuca, *Electronics Department, 1 Decembrie 1918 University, Alba Iulia, Romania*

PS 1-20 Morphological Alteration of Microwave Disinfected Acrylic Resins used for Artificial Teeth and Prosthesis , M. Popescu , *National Institute for R&D in Microtechnologies, Romania*

PS 1-21 Realization of spiral phase plates by 3D lithography
Roxana Tomescu, *National Institute for R&D in Microtechnologies, Romania*

PS 1-22 Terahertz range complex refractive index determinations for liquids using ATR
Adrian Cătălin Dobroiu, *Tohoku University, RIEC, Otsuji Lab, Katahira ,Aoba-ku, Sendai, Japan.*

PS 1-23 L1 minimization applied to two sparse signals that can be described as sums of elementary functions, Petre Cătălin Logofătu, *National Institute for Laser, Plasma and Radiation Physics, Romania*

PS 1-24 1D hyperspectral images of a Light Emitting Diodes array
Victor Damian, *National Institute for Laser, Plasma and Radiation Physics, Magurele, Romania*

PS 1-25 Implementation of Hadamard Spectroscopy using MOEMS as a coded aperture
Tiberus Vasile, *National Institute for Laser, Plasma and Radiation Physics, Magurele, Romania*

PS 1-26 Night vision adapter for an aiming telescope
Dana Granciu, *S.C. IOR S.A., Bucharest, Romania*

PS 1-27 Clicks Counting System for a Riflescope 1
Andrei Drumea, *"Politehnica" University of Bucharest, Romania*

PS 1-28 Modelling and simulation of energy harvesting with solar cell
Cristina Marghescu, *"Politehnica" University of Bucharest, Romania*

PS 1-29 Diffraction patterns from holographic masks generated using combined axicon and helical phase distributions , M. Mihailescu , *Politehnica University of Bucharest, Romania*

PS 1-30 Focusing criterion in DHM image reconstruction
M. Mihailescu, *Physics Department, Politehnica University of Bucharest, Romania*

PS 1-31 Time evolution of dimethyl carbinol in water vortex rings
Ioana - Laura Omocea, *"Politehnica" University of Bucharest, Romania*

PS 1-32 Security aspects of RFID communication systems
Valerică Bindar, *The Special Telecommunications Service – STS, Bucharest, Romania*

PS 1-33 Performance Studies of Electrochromic Displays
Ciprian Ionescu, *"Politehnica" University of Bucharest, Romania*

PS 1-34 Study on electrical and thermal behavior of Organic Photovoltaic (OPV) cells
Robert Alexandru Dobre, *"Politehnica" University of Bucharest, Romania*

PS 1-35 Universal Logic Gate with Directional Couplers
Vasile Degeratu, *"Politehnica" University of Bucharest, Romania*

PS 1-36 Electrogenerated networks from poly(triphenylamine-co-9,9 -dioctyl -2,7-fluorene) with grafted side chains containing carbazole groups,
Oana Iuliana Negru, *"P. Poni" Institute of Macromolecular Chemistry, Iasi-Romania*

PS 1-37 Friction coefficient influence upon fluid jet atomization,
Mihai Ioan, *Stefan cel Mare University of Suceava, Romania, Romania*

PS 1-38 Heat transfer intensification by increasing vapour flow rate in flat heat pipes
Sprinceana Siviu, *Stefan cel Mare University of Suceava, Romania*

PS 1-39 Capillary layer structure effect upon heat transfer in flat heat pipes
Sprinceana Siviu, *Stefan cel Mare University of Suceava, Romania*

PS 1-40 Atomization of liquid droplets in multipoint injection
Marius Beniuga, *Stefan cel Mare University of Suceava, Romania*

PS 1-41 Spectrometry techniques in diagostics of hereditary breast cancer
Sergey Yermolenko, *Correlation Optics Dept., Chernivtsi National University, Ukraine*

PS 1-42 Spectropolarimetry of blood plazma in optimal molecular targeted therapy
Sergey Yermolenko, *Correlation Optics Dept., Chernivtsi National University, Ukraine*

PS 1-43 Polarization image's statistics of prostate cancer tissues
Sergey Yermolenko, *Correlation Optics Dept., Chernivtsi National University, Ukraine*

PS 1-44 Combining polarimetry and spectropolarimetry techniques in diagnostics of cancer changes in biological tissues ,
Sergey Yermolenko, *Chernivtsi National University, Chernivtsi, Ukraine,*

PS 1-45 The phase problem solving by the use of optical correlation algorithm for reconstructing phase skeleton of complex optical fields ,
P.A.Riabyi, *Chernivtsi National University, Ukraine*

PS 1-46 Method of azimuthally stable Mueller-matrix diagnostics of blood plasma polycrystalline films in cancer diagnostics,
Yu.A.Ushenko, *Chernivtsi National University, Chernivtsi, Ukraine*

PS 1-47 The structure of polarization maps of skin histological sections in the Fourier domain for the tasks of benign and malignant formations differentiation ,
A.V. Dubolazov, *Chernivtsi National University, Chernivtsi, Ukraine*

PS 1-48 Mueller-matrix imaging of laser autofluorescence of biological tissues,
A.V. Dubolazov, *Chernivtsi National University, Chernivtsi, Ukraine*

SATURDAY, AUGUST 23

08.20-09.40

Oral Session 5: MICRO/NANOPHOTONICS AND MICRO/NANOTECHNOLOGIES

08.20-08.40- Measurements of amplitude and frequencies of subwavelength oscillations of atoms using resonance fluorescence of three levels atom in two standing waves

Nicolae Enaki, *Institute of Applied Physics, Academy of Sciences of Moldova, Chisinau, Republic of Moldova*

08.40-09.00- The use of the Rayleigh nanoparticles to diagnose optical currents and optical fields
Claudia Yu. Zenkova, *Optics, Printing&Publishing Department, Chernivtsi National University, Ukraine*

09.00-09.20- Self-action of continuous laser radiation in a water suspension with light-absorbing particles
O. V. Angelsky, *Chernivtsy National University, Chernivtsy, Ukraine*

09.20-09.40- IR assessment of R134a temperature in circular micro-channels
Suciu Cornel, *Stefan cel Mare University of Suceava, Romania*

09.40-11.20–Special Workshop:
Montoring of Electrical Tranzient Signals by Using Smart Sensors Network
Cornel Ioana, Ion Candel, *Grenoble Institute of Technology-GipsaLab, France*

SATURDAY, AUGUST 23
11.20-16.30
POSTERS SESSION 2

PS 2-1 Power LED Efficiency in Relation to Operating Temperature
Ioan Plotog, *"Politehnica" University of Bucharest, Romania*

PS 2-2 Automated Platform for Determination of LEDs Spatial Radiation Pattern
Marian Vladescu, *"Politehnica" University of Bucharest, Romania*

PS 2-3 Redundant Uplink Optical Channel for Visible Light Communication Systems
Marian Vladescu, "Politehnica" University of Bucharest, Romania

PS 2-4 Recent Developments on Surface Acoustic Wave (SAW) Sensors for Harsh Conditions
Neculai Grosu, *"Politehnica" University of Bucharest, Romania*

PS 2-5 Numerical simulations of surface plasmon resonances in metal-chalcogenide waveguides
G. C. Vasile, *Physics Department, "Politehnica" University of Bucharest, Romania*

PS 2-6 Design of Cross-Coupled Planar Microstrip Band-Pass Filters Using a Novel Adjustment Method , Muhammed Salah Sadiq Alkafaji, *Foundation of Technical Education, Iraq / "Politehnica" University of Bucharest, Romania*

PS 2-7 Aspects Regarding the Drift of Platinum Resistance Sensors Used as Reference Standards
Cosmin Dinu, *"Politehnica" University of Bucharest, Romania*

PS 2-8 Platform for Testing Power Management Integrated Circuits
Cristian Grecu, *"Politehnica" University of Bucharest, Romania*

PS 2-9 CFD Analysis of a Ball Check Microvalve
Ioan Calimanescu / Constantin L. Dumitrache, *Constanta Maritime University, Romania*

PS 2-10 Two Way Fluid Structure Interaction Analysis of a Valveless Micropump by CFD
Ioan Calimanescu / Constantin L. Dumitrache, *Constanta Maritime University, Romania*

PS 2-11 Optimized design for an electrothermal microactuator
Liviu-Constantin Stan, *Constanta Maritime University, Romania*

PS 2-12 The maximum life expectancy for a micro-fabricated diaphragm
Liviu-Constantin Stan, *Constanta Maritime University, Romania*

PS 2-13 AC analysis in virtual prototypes, Mihaela Hnatiuc, *Constanta Maritime University, Romania*

PS 2-14 The influence of environmental parameters on the optimal frequency in a shallow underwater acoustic channel , Zarnescu George, *Constanta Maritime University, Romania*

PS 2-15 Nanoparticles in Constanta-North Wastewater Treatment Plant
Panaitescu Mariana, *Constanta Maritime University, Romania*

PS 2-16 Optimization of Meander Line Antennas for RFID Applications by using Genetic Algorithm, Stefania C. Bucuci, *"Politehnica" University of Bucharest, Romania*

PS 2-17 Optimization of Meander Line Radiators for Frequency Selective Surfaces by using Genetic Algorithm, Stefania C. Bucuci, *"Politehnica" University of Bucharest, Romania*

PS 2-18 A new technology for fishing vessels: the use of ejector expansion refrigeration cycle
Daniela Elena Mitu, *Constanta Maritime University, Romania*

PS 2-19 Direction finding antenna system for spark detection and localization
Raluca E. Topor, *Constanta Maritime University, Romania*

PS 2-20 Planar Antenna System for Direction Finding
Iulia-Cezara Mardale, *"Politehnica" University of Bucharest, Romania*

PS 2-21 A novel space-diversity antenna system
Gabriela Cocias, *"Politehnica" University of Bucharest, Romania*

PS 2-22 Electric Arc Localization Based on Antenna Arrays and MUSIC Direction of Arrival Estimation, Mirel Paun, *Constanta Maritime University, Romania*

PS 2-23 Improvement of antenna decoupling in radar systems
Liliana Anchidin, *"Politehnica" University of Bucharest, Romania*

PS 2-24 An Integrated Platform for Inertial Navigation
Ana Dumitrascu, *Constanta Maritime University, Romania*

PS 2-25 An Automatic Speech Recognition System with Speaker-Independent Identification Support, Alexandru Caranica, *Constanta Maritime University, Romania*

PS 2-26 Verification of the windings axial clamping forces for high voltage power transformers by using passively mode-locked fiber lasers
Andrei Drăgulinescu, *"Politehnica" University of Bucharest, Romania*

PS 2-27 A Balanced Wide-band Application
Mircea Panzariu, *"Politehnica" University of Bucharest, Romania*

PS 2-28 Reengineering for optimized control of DC networks,
Adela Vintea, *"Politehnica" University of Bucharest, Romania*

PS 2-29 Using Optical Soliton Stability for Magnetic Field Measurement,
Ionuţ Romeo Şchiopu, *"Politehnica" University of Bucharest, Romania*

PS 2-30 Wireless ZigBee home automation system,
R. E. Craciunescu, *"Politehnica" University of Bucharest, Romania*

PS 2-31 Optical solutions for unbundeled access network
Bacis (Vasile) Irina Bristena, *"Politehnica" University of Bucharest, Romania*

PS 2-32 Wearable Vital Parameters Monitoring System
Bacis (Vasile) Irina Bristena, *"Politehnica" University of Bucharest, Romania*

PS 2-33 Modern Techniques and Technologies for Unbundled Access in the Local Loop
Bacis (Vasile) Irina Bristena, *"Politehnica" University of Bucharest, Romania*

PS 2-34 High Efficiency DC-DC Converter Using GaN Transistors
C.-A. Tămaș, *"Politehnica" University of Bucharest, Romania*

PS 2-35 Antenna for Passive RFID Tags
Alexandru Craciun, *"Politehnica" University of Bucharest, Romania*

PS 2-36 Image Stabilization for SWIR Advanced Optoelectronic Device
Alexandru Craciun, *"Politehnica" University of Bucharest, Romania*

PS 2-37 Treatment with activated water by GlidArc technology of bacteria producing Biofouling
Bogdan Hnatiuc, *Constanta Maritime University, Romania*

PS 2-38 Conceiving a Hybrid Model of a Weighting Device,
Emil M. Oanta, *Constanta Maritime University, Romania*

PS 2-39 Practical aspects of the use of three-phase alternating current electric machines in electricity storage system,
Violeta-Vali Ciucur, *Constanta Maritime University, Romania*