

**„HENRI COANDĂ”
AIR FORCE ACADEMY**



ROMANIA



GERMANY

**„GENERAL M. R. STEFANIK”
ARMED FORCES ACADEMY**



SLOVAK REPUBLIC

"SCIENTIFIC RESEARCH AND EDUCATION IN THE AIR FORCE"

AFASES 2011

THE 13-th INTERNATIONAL CONFERENCE

**Publishing House of “Henri Coanda” Air Force Academy
Brasov, Romania**

**26 – 28 May, 2011
Brasov-ROMANIA**

**It is our great pleasure
to welcome you to the
13th International Conference
“SCIENTIFIC RESEARCH AND
EDUCATION IN THE AIR FORCE”**

*This event is organized by “Henri Coanda”
Air Force Academy in collaboration with
“General M.R. Stefanik” Armed Forces
Academy and “AIRTEC” Germany.*

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TA **Gheorghe RADU**

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Prof **Philippe PERROT**, PhD
Roy PESIN, PhD
Eng **Romulus PETCU**, PhD
Asoc prof **Anca PETRE**, PhD
Prof Eng **Gabriela PRELIPCEAN**, PhD
Prof **Mihai ROMAN**, PhD
Prof **Daniela ROSCA**, PhD
Cdr Prof **C-tin ROTARU**, PhD
Prof Eng **Gheorghe SAMOILESCU**, PhD
Prof **Asher SHAFRIR**, PhD
Prof Math **Florentin SMARANDACHE**, PhD
Prof Eng **Milan SOPOCI**, PhD
Assoc Prof **Lavinia STAN**, PhD
Col Prof **Leontin STANCIU**, PhD
Prof **Stelian STANCU**, PhD
Col Prof **Robert SZABOLCSI**, PhD
Prof Eng **Alex STEFAN**, PhD
Prof Eng **Peter VORSMANN**, PhD

Conference Agenda

Thursday 26 May 2011

16 ⁰⁰ - 18 ³⁰	Arrival of participants Check-in Time at your disposal / Socializing opportunities
18 ³⁰ - 21 ⁰⁰	Ice Breaker Evening (<i>Canteen</i>)

Friday 27 May 2011

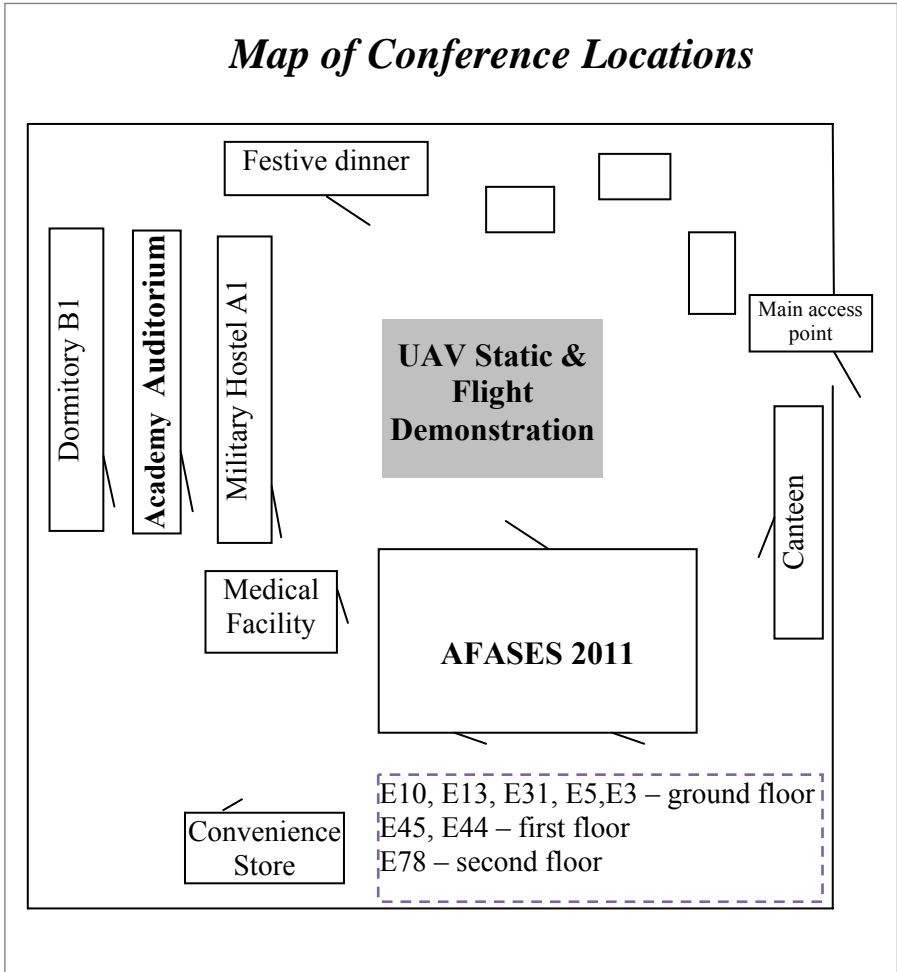
07 ⁰⁰ - 07 ⁴⁵	Breakfast (<i>Canteen – paid meal</i>)							
08 ⁰⁰ - 09 ⁰⁰	Conference Registration (<i>antechamber of Academy Auditorium</i>)							
09 ⁰⁰ - 10 ³⁰	Plenary Session (<i>Academy Auditorium</i>)							
10 ³⁰ - 10 ⁴⁵	Official Photo Session							
11 ⁰⁰ - 14 ³⁰	Sections	1 <i>E78</i>	2 <i>E31, E3</i>	3 <i>E45, E44</i>	4 <i>E10, E13</i>	5 <i>E5</i>	6 <i>E5</i>	
14 ³⁰ - 15 ³⁰	Lunch Break (<i>Canteen – paid meal</i>)							
15 ³⁰ - 19 ⁰⁰	Sections	1 <i>E78</i>	2 <i>E31, E3</i>	3 <i>E45, E44</i>	4 <i>E10, E13</i>	5 <i>E5</i>	6 <i>E5</i>	UAV <i>Static & Flight demonstration</i>
20 ⁰⁰	Festive dinner							

Saturday 28 May 2011

09 ⁰⁰ - 09 ⁴⁵	Breakfast (<i>Canteen – paid meal</i>)
10 ⁰⁰ - 14 ⁰⁰	Sightseeing of Brasov City Time at your disposal
14 ⁰⁰ - 14 ⁴⁵	Lunch (<i>Canteen – paid meal</i>)
14 ⁴⁵	Check-out Departure of participants

- | | |
|---|---|
| <ul style="list-style-type: none"> - 1. Management, Marketing, Finance - E78 - 2. Socio and Humanities - E31,E3 - 3. Mathematics, Computer Sciences, IT&C- E45,E44 | <ul style="list-style-type: none"> - 4. Engineering Sciences - E10, E13 - 5. Air Force – E5 - 6. Developments in the field of UAS – E5 |
|---|---|

Map of Conference Locations



PLENARY SESSION

ACADEMY AUDITORIUM

Gabriel - Florin MOISESCU

Rector of “Henri Coanda” Air Force Academy, Brasov, Romania

CÂRNU Fanică

Chief of Romanian Air Force

Pavel BUCKA

Vice-rector for Education, “Gen. M.R. Štefánik” Armed Forces Academy, Liptovský Mikuláš, Slovak Republic
„Unmanned Aerial Systems Used in the Armies of Developed Countries”

James KEAGLE

Director of the Transforming National Security seminar series,
Center for Technology and National Security Policy,
National Defense University, USA

María JOSÉ MÉNDEZ DE VALDIVIA

The Embassy of Spain in Romania and Moldova Republic

Sebastian KAWCZYNSKI

CEO at Plagiat.pl, Poland

Florin PĂUN

Deputy Director Industrial Innovation, Onera - The French Aerospace Lab, France
„From Managing Asymmetries Towards a Systemic Approach in Technology Transfer: A Critique Based on the Sme Strategy at Onera – The French Aerospace LabTM”

THE CONFERENCE' SECTIONS

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1. MANAGEMENT, MARKETING, FINANCE

Conference Room E78

MODERATORS:

- **Stelian STANCU**
- **Mihai ROMAN**
- **Viera FRIANOVA**
- **Stanislav MORONG**

-
1. *GLOBALIZATION. SECURITY CRISES*
Iustin ACHIRECESEI, Vasile NODIȘ
“Lucian Blaga” University, Sibiu Romania
-
2. *ADVANTAGES OF THE NEW ROMANIAN ECONOMIC SPACE.
DEVELOPMENTS OF THE ROMANIAN ECONOMIC DIMENSION ON
NATIONAL SECURITY*
Sorin BOUARU
„Carol I” National Defense University Bucharest, Romania
-
3. *A QUANTITATIVE STOCHASTIC MODEL FOR AVIATION SECURITY*
Catalin CIOACA*, Marian OANA*, Florin Catalin OLTEANU**
*“Henri Coanda” Air Force Academy, Brasov, Romania,
** Transilvania University of Brasov, Romania
-
4. *A GAME THEORY MODEL OF STOCK EXCHANGE MARKET
MANIPULATION*
Diana DEZSI
Academy of Economic Studies, Bucharest, Romania
-
5. *INSURANCE MARKET EVOLUTION IN ROMANIA IN TERMS OF
GLOBAL ECONOMIC CRISIS*
Gherasim Solovestru DOMIDE*, Gabriel Arthur ZELINSCHI,
Alexandru DOMIDE*, Gheorghe Mircea HORGOS***
*North University of Baia Mare, Romania,
**Academy of Economic Studies, Bucharest, Romania
-
6. *MONTHLY SEASONALITY IN THE BUCHAREST STOCK EXCHANGE*
Ramona DUMITRIU, Razvan STEFANESCU, Costel NISTOR
Danubius University of Galați, Romania
-
7. *COMMUNICATION STRATEGY OF THE MINISTRY OF DEFENCE
OF THE SLOVAK REPUBLIC*
Viera FRIANOVA
Department of Management, “Gen. M. R. Stefanik” Armed Forces
Academy, Liptovsky Mikulas, Slovak Republic
-

*IMPLEMENTATION OF AN ECONOMIC-MATHEMATICAL MODEL
IN ORDER TO DETERMINE THE EFFECTIVENESS OF*

8. *INVESTMENTS IN THE CHANGES FROM THE DEFENSE INDUSTRY*

Dan HAGEANU

"Alma Mater" University, Sibiu, Romania

IMPACT OF GLOBALIZATION ON AIRPORT INDUSTRY

9. **Dan – Cristian ION**

"Politehnica" University of Bucharest, Romania

PERCEPTIONS OF THE CURRENT ECONOMIC CRISIS

10. *DIMENSIONS IN A RURAL COMMUNITY*

Daniela Rodica IOV

Petroleum-Gas University of Ploiesti, Romania

EVOLUTION OF CURRENT INCOME AND CONSUMPTION OF

11. *POPULATION IN A RURAL COMMUNITY*

Daniela Rodica IOV

Petroleum-Gas University of Ploiesti, Romania

COMBAT CAPABILITY OF MODERN SUPERSONIC AIRCRAFT FOR

12. *CZECH AIR FORCE*

Miroslav JANOŠEK

University of Defense, Air Force Department, Brno, Czech Republic

THE INTERNATIONALIZATION AND GLOBALIZATION OF

13. *BUSINESS MECHANISMS AND MOTIVATIONS*

Gabriela MIRONOV-DURET, Aida Mariana CIMPEANU,

Adriana MARGARIT, Sergiu Ionel PIRJU

"Danubius" University, Galați, Romania

CURRENT ISSUES IN SELECTED ECONOMIC CRISIS

14. *MANAGEMENT TOOLS*

Stanislav MORONG

"Gen. M.R. Štefánik" Armed Forces Academy, Liptovský Mikuláš,
Slovak Republic

THEORETICAL CONSIDERATIONS ON THE CALCULATION OF

15. *TURNOVER OF BREAK-EVEN IN INSURANCE COMPANIES*

Florin Catalin OLTEANU, Gavrila CALEFARIU*

Transilvania University of Brasov, Romania

MANAGERIAL COMPONENTS IN IMPROVING THE EFFICIENCY

16. *OF THE MANAGEMENT OF ROMANIA'S STATE BORDER*

SECURING

Stelian PANZARU, Camelia-Cristina STEFANESCU

Management Faculty, "Spiru Haret" University, Brasov, Romania

- TRANSFERRING NEW DYNAMIC CAPABILITIES TO SMES: THE ROLE OF ONERA – THE FRENCH AEROSPACE LAB IN PROMOTING ASYMMETRIES MANAGEMENT*
17. **Florin PAUN***, **Nick VON TUNZELMANN****, **Philippe RICHARD*****
 *Deputy Director Industrial Innovation, ONERA-The French Aerospace Lab
 ** Emeritus Professor, SPRU, University of Sussex
 ***President, Ventures Strategy Consulting
-
- INFORMATION RESOURCES MANAGEMENT IN NATO*
18. **Ilie PAUN**
 The Regional Department of Defense Resources Management Studies, Brasov, Romania
-
- INFORMATION RESOURCES MANAGEMENT IN ROMANIAN ARMY*
19. **Ilie PAUN**
 The Regional Department of Defense Resources Management Studies, Brasov, Romania
-
- THE CULTURAL EFFORT OF INFORMATION SHARING IN THE KNOWLEDGE-BASED SOCIETY*
20. **Oana-Andreea PIRNUTA***, **Mircea BOSCOIANU****
 *Transilvania University of Brasov, Romania
 ** „Henri Coanda” Air Force Academy, Brasov, Romania
-
- THE GREAT DEPRESSION AND THE CONTEMPORARY GLOBAL ECONOMIC CRISIS. A COMPARATIVE APPROACH*
21. **Oana-Andreea PIRNUTA***, **Ioana Anca GRIGORESCU***, **Mircea BOSCOIANU****
 *Transilvania University of Brasov, Romania
 ** “Henri Coanda” Air Force Academy, Brasov, Romania
-
- CORRELATION AND EVOLUTION OF ROMANIAN TOURISM*
22. **Raluca PODASCA**
 Petroleum-Gas University of Ploiesti, Romania
-
- SWOT ANALYSIS OF A RETAIL COMPANY*
23. **Raluca PODASCA**
 Petroleum-Gas University of Ploiesti, Romania
-
- MODELS OF FOREIGN DIRECT INVESTMENTS. STUDY CASE ON ROMANIA*
24. **Mihai ROMAN**
 Academy of Economic Studies, Bucharest, Romania
-
- PROACTIVE MANAGEMENT AND INTERNAL AUDIT PROCEDURES IN AIRPORTS USING BI SOLUTIONS*
25. **Elena Monica SABAU**, **Andreea Ileana ZAMFIR**
 Academy of Economic Studies, Bucharest, Romania
-

- AN ECONOMETRIC APPROACH OF ACTUAL FINANCIAL CRISIS*
26. **Stelian STANCU, Oana Madalina PREDESCU ,
George Viorel VOINESCU, Anca Domnica LUPU**
Academy of Economic Studies, Bucharest, Romania
-
- RISK AND UNCERTAINTY IN THE CHOICE OF AN OPTIMAL
PORTFOLIO ON THE ROMANIAN CAPITAL MARKET*
27. **Stelian STANCU, Oana Madalina PREDESCU, Nora CHIRITA,
George Viorel VOINESCU, Anca Domnica LUPU**
Academy of Economic Studies, Bucharest, Romania
-
- MONETARY POLICY AND INFLATION CONTROL*
28. **Alina STOICA, Sorina STOIAN**
Transilvania University of Brasov, Romania
-
- DIRECT INFLATION TARGETING IN ROMANIA*
29. **Magdalena Lucica TALVAN (MIHAD), Mihai Daniel ROMAN**
Academy of Economic Studies, Bucharest, Romania
-

2. SOCIO AND HUMANITIES

Conference Room E31

Panel 1. The psychology of defense, public order and national security

MODERATORS:

- **Mihail ANTON**
- **Florentina PESCARU**
- **Milan SOPOCI**

-
- NANOPSYCHOLOGY IN THE EXTREME FUTURE*
1. **Mariana CALUSCHI**
"Petre Andrei" University, Iași, Romania
-
- CULTURAL AND GENDER TOLERANCE PRINCIPLES IN SOCIAL
SCIENCES AFFECTING THE SECURITY ENVIRONMENT*
2. **Mária MARTINSKÁ, Eva ZÁVODNÁ**
"Gen. M.R. Štefánik" Armed Forces Academy, Liptovský Mikuláš,
Slovak Republic
-
- TRENDS OF ACTION OF THE PRIVATE / CORPORATE TYPE OF
SECURITY EXPERTISE IN ROMANIA*
3. **Carmen POSTELNICU**
"Mihai Viteazul" National Intelligence Academy, Bucharest, Romania
-

WOMEN'S CONDITION IN MILITARY INSTITUTIONS

4. **Cristina RADOI**
National School of Political Studies and Public Administration,
Bucharest, Romania
-

*SECURITY RESEARCH AND NEW REQUIREMENTS ON EDUCATION
AND TRAINING*

5. **Milan SOPÓCI**
"Gen. M. R. Stefanik" Armed Forces Academy, Liptovsky Mikulas,
Slovak Republic
-

*APPLYING THE HUMANITARIAN INTERNATIONAL LAW IN
DESTRUCTURED INTERNAL CONFLICTS*

6. **Dumitru TOADER**
"Henri Coandă" Air Force Academy, Brasov, Romania
-

*EVOLUTION OF PATHOLOGICAL COMMUNICATION'S MILITARY
DOMAINS, FROM PROPAGANDA TO INFORMATION OPERATIONS*

7. **Alfred VASILESCU**
Operational Command Center, General Staff, Bucharest, Romania
-

*INTEGRATIVE CONTEMPORARY THEORIES ABOUT
UNCONVENTIONAL AGGRESSIONS OF INFORMATIONAL TYPE,
BASED ON PATHOLOGICAL COMMUNICATION*

8. **Alfred VASILESCU**
Operational Command Center, General Staff, Bucharest, Romania
-

9. **Mihaela Alina STATE**
-

10. **Adina Daniela VOINEA**
-

11. **Cristina GOMBOS**
-

12. **Nicoleta COMANICI**
-

13. **Anca Carmen OPRIS**
-

***Panel 2. Educational psychology, counseling and
vocational school***

MODERATORS:

- **Maria Dorina PASCA**
- **Aurel Ion CLINCIU**
- **Mihaela GURANDA**

ANXIETY ASPECTS IN PUPILS' BEHAVIOR

1. **Ana-Maria ALEXANDRU***, **Maria-Letitia ROMAN****
*"Danubiana" Technical High School, Roman, Romania
** Psihotera SRL, Brasov, Romania
-

- PARALLEL VOICES IN TWO AMERICAN NOVELS*
2. **Ana-Maria ALEXANDRU**
"Danubiana" Technical High School, Roman, Romania
-
- PARTNERSHIP AND PROJECTS AS EDUCATIONAL INTEGRATED ACTION*
3. **Aida Cristina FRANGULEA PASTOR**
University of Bucharest, Romania
-
- SELF – DISCLOSURE AND PARENTS – CHILDREN RELATIONSHIPS DEPENDING ON PARENTAL STYLES*
4. **Iulia Mihaela MIHAI**
"Petre Andrei" University, Iasi, Romania
-
- DEVELOPMENT OF EMOTIONAL INTELLIGENCE – AN EXPERIENTIALIST APPROACH*
5. **Laura Elena NASTASA, Laura Teodora DAVID**
Transilvania University of Brasov, Romania
-
- STRESS AND JOB SATISFACTION AMONG UNIVERSITY TEACHERS*
6. **Daniela Veronica NECSOI**
Transilvania University of Brasov, Romania
-
- OCCUPATIONAL STRESS IN UNIVERSITY: PERCEIVED CAUSES AND COPING STRATEGIES*
7. **Daniela Veronica NECSOI, Daniela PORUMBU**
Transilvania University of Brasov, Romania
-
- VIOLATING WORK AND INTERPERSONAL RELATIONSHIPS IN ORGANIZATIONS AS A CURRENT PROBLEM OF PERSONAL MANAGEMENT*
8. **Jaroslav NEKORANEC, Eva ZÁVODNÁ**
"Gen. M.R. Štefánik" Armed Forces Academy, Liptovský Mikuláš, Slovak Republic
-
- THE IDENTIFICATION OF THE COMPONENTS OF SCHOOL INADAPTABILITY*
9. **Maria Dorina PASCA**
University of Medicine and Pharmacy, Targu Mures, Romania
-
- DETERMINATION VERSUS SELF-DETERMINATION IN THE STRUCTURE AND DYNAMICS OF SELF*
10. **Daniela PORUMBU, Daniela Veronica NECSOI**
Transilvania University of Brasov, Romania
-
- THE PARADIGM OF EGO – THE FUNDAMENTAL PARADIGM OF EFFICIENCY*
11. **Daniela PORUMBU**
Transilvania University of Brasov, Romania
-

THE RELATION BETWEEN SOCIAL COMPARISON AND COACHES' ORIENTATION TOWARDS COMPETITIVE SITUATION

- 12. Diana SIMION (DUMITRIU)**
National School of Political Studies and Public Administration,
Bucharest, Romania

PERCEPTIONS ABOUT THE MASS MEDIA AMONG THE STUDENTS FROM REPUBLIC OF MOLDOVA

- 13. Razvan STEFANESCU, Ramona DUMITRIU, Costel NISTOR**
"Dunarea de Jos" University, Galati, Romania

RESIDENTS' PERCEPTION OF VIOLENCE ACTS - A LOCAL RESEARCH

- 14. Ecaterina Maria UNIANU, Aida Cristina FRANGULEA-PASTOR**
University of Bucharest, Romania

PARTNERSHIP AND PROJECTS AS EDUCATIONAL INTEGRATED ACTION

- 15. Aida Cristina FRANGULEA-PASTOR**
University of Bucharest, Romania

STUDENT MOTIVATION AND SELF – REGULATED LEARNING – A THEORETICAL REVIEW

- 16. Ana – Maria CAZAN**
University of Bucharest, Romania

ORGANIZATIONAL MANAGEMENT OF EMOTIONS AT WORK: MOTIVES AND FORMS

- 17. Camelia TRUTA**
University of Bucharest, Romania
-

Panel 3. Work psychology, transport and services

MODERATORS:

- **Marcela Rodica LUCA**
- **Catalin Marius GHERASIM**

HUMAN FACTORS IN AVIATION: CREW MANAGEMENT

- 1. Dan – Cristian ION**
"Politehnica" University of Bucharest, Romania

SMOMELP STUDENTS MOTIVATION REGARDING MANAGERIAL ENTRY LEVEL POSITION

- 2. Mihaela OANCEA, Daniela BELU, Catalin CIOACA, Dorin DUICULETE**
"Henri Coandă" Air Force Academy, Brasov, Romania
-

A FEW METHODS TO TEST THE SPECIFIC LEVEL OF THE PHYSICAL TRAINING OF THE NAVAL STUDENTS ACCORDING TO THE PROFESSIONAL REQUESTS ABOARD SHIPS

3.

Naie Gilles OPRISAN

„Mircea Cel Bătrân” Naval Academy, Constanta, Romania,

THE PSYCHOLOGICAL PROFILE OF THE HIGH – PERFORMANCE MILITARY PILOT

4.

Florentina PESCARU, Valentin HALMAGIU

University of Bucharest, Romania

TERROR MANAGEMENT. TOWARDS MECCA AND A PEACE MESSAGE

5.

Nicolae RADU

Ministry of Administration and Interior, Romania

THE TERROR PSYCHOPATHOLOGY

6.

Nicolae RADU

Ministry of Administration and Interior, Romania

7.

ENTREPRENEURSHIP COMPETENCES ACQUIRED DURING PRACTICAL PLACEMENT. QUALITATIVE ISSUES

Marcela Rodica LUCA

Transilvania University of Brasov, Romania

8.

Minerva Nicoleta GHINDEA

9.

Cristina Elena PANTAZIU

10.

Alexandra Georgiana NECULAI

Panel 4. Communication, education, history, languages, political science

MODERATORS:

➤ **Lavinia STAN**

➤ **Asher SHAFRIR**

➤ **Liviu PLUGARU**

1.

A SHORT HISTORY OF LAW ENFORCEMENT IN ENGLISH WORDS: FROM POSSE COMITATUS TO FLYING SQUAD

Ileana CHERSAN

“Al. I. Cuza” Police Academy, Bucharest, Romania

2.

HOW TO AVOID GENDER DIFFERENCES IN BUSINESS ENGLISH CORRESPONDENCE

Maria ENACHE

Academy of Economic Studies, Bucharest, Romania

- TEACHING NEGOTIATION SKILLS*
3. **Maria ENACHE**
Academy of Economic Studies, Bucharest, Romania
-
- EDUCATIONAL MANAGEMENT – ART OR SCIENCE?*
4. **Mihaela GURANDA*, Daniela NAGY****
*University of Bucharest, Romania
**"Henri Coanda" Air Force Academy, Brasov, Romania
-
- GEORGE THE THIRD, SELIM THE THIRD AND ENGLISH ORIENTAL POLICY AFTER THE ESTABLISHMENT OF ROMANIAN CONSULATE (1803)*
5. **Nilgün İSMAIL**
Academy of Economic Studies, Bucharest, Romania
-
- NEW DOCUMENTS REGARDING THE SPREAD OUT OF THE ENGLISH TRADE INTO THE OTTOMAN DOMAINS: THE MEMORANDUM OF THE BOARD OF TRADE, LONDON, 1828*
6. **Nilgün İSMAIL**
Academy of Economic Studies, Bucharest, Romania
-
- EUROPEAN AND NATIONAL BORDERS: TRANSFER OR PENETRATION OF VALUES*
7. **Dragos Lucian IVAN**
National School of Political and Administrative Studies, Bucharest, Romania
-
- MILTON'S SATAN: HERO OR ANTI-HERO?*
8. **Edith KAITER, Corina SANDIUC**
"Mircea cel Bătrân" Naval Academy, Constanta, Romania
-
- LIMITATIONS TO LAUNCHING DEVELOPMENT PROJECTS OF INTERCULTURAL COMMUNICATION COMPETENCE IN THE MILITARY ENVIRONMENT*
9. **Adrian LESENCIUC, Cosmina DRAGHICI**
"Henri Coandă" Air Force Academy, Brasov, Romania
-
- BODY PARTS IN IDIOMS*
10. **Edith KAITER, Raluca MATES**
"Mircea cel Bătrân" Naval Academy, Constanta, Romania
-
- WOMEN'S STATUS IN A FREE WORLD: A MODERN PERSPECTIVE*
11. **Oana-Andreea PIRNUTA*, Ioana-Anca GRIGORESCU****
*Transilvania University of Brasov, Romania
** ICLS Co., Craiova, Romania
-
- ON UTOPIA – BETWEEN PHILOSOPHY AND COMMUNISM*
12. **Oana-Andreea PIRNUTA*, Ioana-Anca GRIGORESCU****
*Transilvania University of Brasov, Romania
** ICLS Co., Craiova, Romania
-

*TO BE OR NOT TO BE ... TRANSLATED CULTURAL TRANSLATION
AND IDENTITY ISSUES IN MONICA ALI'S BRICK LANE*

13. Iulia RASCANU

Department of Germanic Languages, Academy of Economic Studies,
Bucharest, Romania

*MULTI / INTER-CULTURALISM AND GROUP ACTIVITY IN MONICA
ALI'S BRICK LANE*

14. Iulia RASCANU

Academy of Economic Studies, Bucharest, Romania

ETHNIC MINORITY LANGUAGES IN ISRAEL

15. Asher SHAFRIR

Tel Aviv University, Israel

HEBREW LANGUAGE STATUS AND CORPUS PLANNING

16. Asher SHAFRIR

Tel Aviv University, Israel

*EDUCATION AND DEMOCRACY. THE DEVELOPMENT OF SOCIAL
SCIENCES AFTER 1989. THE CASE OF THE UNIVERSITY OF*

17. BUCHAREST

Claudia Maria UDRESCU

University of Bucharest, Romania

COMMUNICATION SKILLS IN THE CLASSROOM

18. Monica Mirela UNGUREANU

“Mircea Santimbreanu” No 139 School, Bucharest, Romania

3. MATHEMATICS, COMPUTER SCIENCE, IT&C

3.1 APPLIED MATHEMATICS

Conference Room E45

MODERATORS:

- **Constantin GHITA**
- **Mircea LUPU**

INVITED PAPER: Eugen PALTANEA, „Recent Advances in Stochastic Comparison of Order Statistics”, Transilvania University of Brasov, Romania

1.	<i>A SPLITTING ALGORITHM FOR VARIATIONAL INEQUALITIES</i> Corina L. CHIRIAC Bioterra University, Bucharest, Romania
2.	<i>A VERSION OF ROBBINS-MONROE ALGORITHM</i> Neculai CRISMARU Transilvania University of Brasov, Romania
3.	<i>BEST PATTERN OF MULTIPLE LINEAR REGRESSION</i> Cornelia GABER Petroleum-Gas University of Ploiesti, Romania
4.	<i>VALUES AND PROPER VECTORS USED IN ECONOMIC-STATISTICS ANALYSIS</i> Cornelia GABER Petroleum-Gas University of Ploiesti, Romania
5.	<i>SOME MODELS ON PHASE TRANSFORMATIONS ON A WIDE RANGE OF TEMPERATURE CHARACTERIZING DISSIPATIVE PROCESSES</i> Constantin GHITA “Valahia” University, Targoviste, Romania
6.	<i>CRITERIA AND APPLICATIONS REGARDING THE ABSOLUTE STABILITY FOR THE SHIPS AUTOPILOT ROUTE ADJUSTMENT</i> Mircea LUPU, Olivia FLOREA Transilvania University of Brasov, Romania
7.	<i>INTEGRATING QUANTUM TECHNIQUES INTO SECURE SOCKET LAYER PROTOCOL</i> Gabriela MOGOS University of Oradea, Romania

8. *NUMERICAL APPROXIMATION OF DIRICHLET PROBLEM IN BOUNDED DOMAINS AND APPLICATIONS*
Oana RACHIERU, Alina STOICA
Transilvania University of Brasov, Romania
-

9. *ANALYSIS OF MONTE CARLO SIMULATIONS BASED ON DIFFERENT DISCRETIZATION SCHEMAS OF CONTINUOUS STOCHASTIC MODELS FROM FINANCE*
Tiberiu SOCACIU, Ioan MAXIM
“Stefan cel Mare” University, Suceava, Romania
-

10. *PARALLELIZING BLACK-SCHOLES PDE SOLVING ON AN OPEN DOMAIN WITH SCHUR DECOMPOSITION METHOD*
Tiberiu SOCACIU, Ioan MAXIM
“Stefan cel Mare” University, Suceava, Romania

11. *MATHEMATICAL ESTIMATION IN FINANCIAL ECONOMICS*
Sorina STOIAN, Oana RACHIERU
Transilvania University of Brasov, Romania
-

3.2 COMPUTER SCIENCE, INFORMATION TECHNOLOGY and COMMUNICATIONS

Conference Room E44

MODERATORS:

- **Adrian ALEXEI**
- **Julius BARÁTH**
- **Gheorghe RADU**

INVITED PAPER: Dorin BOCU, „Interface Oriented Software Systems Modelling”, Transilvania University of Brasov, Romania

1. *THE CONTOUR TREE - A POWERFUL CONCEPTUAL STRUCTURE FOR REPRESENTING THE RELATIONSHIPS AMONG CONTOUR LINES ON A TOPOGRAPHIC MAP*
Adrian ALEXEI, Mariana BARBARESSO
Military Equipment and Technologies Research Agency, Bucharest, Romania
-

2. *TEST BED FOR CYBER-ATTACKS MITIGATION*
Július BARÁTH, Marcel HAKAKAI
“Gen. M.R. Štefánik” Armed Forces Academy, Liptovský Mikuláš, Slovak Republic
-

GIS FOR POLLUTION MANAGEMENT

3. **Mariana BARBARESSO**
Military Equipment and Technologies Research Agency, Bucharest,
Romania
-

*ALGORITHMS FOR MAP GENERALIZATION WITH ARCGIS
SOFTWARE*

4. **Florin Virgil DULGHERU**
GEOINT Center, Military Technical Academy, Bucharest, Romania
-

*SELF-SYNCHRONIZATION TECHNIQUES USED TO ENCRYPT DATA
STRINGS OF TELEPHONE AND DATA SUBSCRIBERS SYSTEMS*

5. **Constantin GROZEA, Ionut-Gabriel TARSA**
Military Equipment and Technologies Research Agency, Bucharest,
Romania
-

*A PLATFORM MODULE AND A METHOD OF TRAFFIC ANALYSIS
IN IP COMMUNICATION NETWORKS*

6. **Constantin GROZEA, Gigi-Daniel BUDARIU**
Military Equipment and Technologies Research Agency, Bucharest,
Romania
-

DATA ERASURE ON MAGNETIC STORAGE

7. **Mihaita IVASCU**
Military Equipment and Technologies Research Agency, Bucharest,
Romania
-

*DESIGN OPTIMIZATION OF INDUSTRIAL WIRELESS NETWORK
USING GENETIC ALGORITHMS*

8. **Ramona-Georgiana OROS, Vlad JINGA, Cornel SAMOILA,
Doru URSUTIU**
Transilvania University of Brasov, Romania
-

*THE APPRAISAL OF OIL PRODUCTION USING THE METHOD OF
REGRESSION*

9. **Loredana-Maria PAUNESCU**
Petroleum and Gas University of Ploiesti, Romania
-

THE SECURITY CONTROL OF THE INFORMATIONAL SYSTEMS

10. **Loredana-Maria PAUNESCU**
Petroleum and Gas University of Ploiesti, Romania
-

THE PROTOCOL MODEL FOR THE CONGESTION CONTROL

11. **Ioan POPOVICIU**
"Mircea cel Bătrân" Naval Academy, Constanta, Romania
-

*DESIGNING A DATA WAREHOUSE. CASE STUDY: SC "AMBIENT"
SA*

12. **Carmen RADUT, Mihaela ALBICI, Delia TESELIOS,
Anca VALCU**
"Constantin Brancoveanu" University, Ramnicu Valcea, Romania
-

*IMPACT OF CLOUD COMPUTING SOLUTIONS TO NETWORK
ENABLED CAPABILITIES*

- 13. Michal TURČANÍK, Marcel HAKAKAI, Miloš OČKAJ**
“Gen. M.R. Štefánik” Armed Forces Academy, Liptovský Mikuláš,
Slovak Republic
-

*DECISION SUPPORT WITH KNOWLEDGE DATABASE IN
ASYMMETRIC OPERATION AREA*

- 14. Miroslav ŽÁK, Pavel BUČKA**
“Gen. M.R. Štefánik” Armed Forces Academy, Liptovský Mikuláš,
Slovak Republic
-

4. ENGINEERING SCIENCES

4.1 ELECTRICAL AND ELECTRONICAL ENGINEERING

Conference Room 13

MODERATORS:

- **Elena HELEREA**
- **Gheorghe SAMOILESCU**
- **Ecaterina Liliana MIRON**

*USE OF PRESELECTED MESSAGES IN AIR-GROUND RADIO
COMMUNICATIONS*

- 1. Constantin BUJOR**
“Politehnica” University of Bucharest, Romania
-

*DIAGNOSIS OF FAULTS IN INDUCTION MACHINE
MANUFACTURING*

- 2. Anca Ciobanu, Elena HELEREA**
Transilvania University of Brasov, Romania
-

*CONSIDERATIONS REGARDING MODAL TESTING OF ELECTRIC
MOTORS PARTS*

- 3. Melania FILIP*, Ioan Călin ROSCA**, Elena HELERA****
**“Mircea Cristea” Technical College, Brasov, Romania
**Transilvania University of Brasov, Romania
-

*RESEARCHES AND EXPERIMENTS ON TELECOMMUNICATIONS
OPTICAL FIBER WELDING*

- 4. Sebastian GANSCA, Valentin Gaftoneanu, Robert ROSCA,
Camelia RADU (Hanea), Iacob-Nicolae TRIF**
Transilvania University of Brasov, Romania
-

- THE CONCEPTION OF A COMPUTER FOR HEIGHT COMPUTATION ON TELECOMMUNICATION ANTENNAS*
5. **Sebastian GANSCA***, **Robert ROSCA***, **Tudor TRIF****,
Maria HERESCU (ROSCA)*, **Iacob-Nicolae TRIF***
*Transilvania University of Brasov, Romania
**Ericsson Romania, Bucharest, Romania
-
- MONITORING THE UNBALANCE IN POWER MICRO-GRIDS*
6. **Ionel LEPADAT***, **Catalin MIHAI****, **Elena HELEREA***,
Sorin ABAGIU***
* Transilvania University of Brasov, Romania
** Transilvania SUD Electrica Distribution Networks SA, Brasov, Romani
***Transilvania Sud - Electrica Serv SA, Brasov, Romania
-
- EMBEDDED SYSTEM FOR MONITORING THE TEMPERATURE INSIDE A VEHICLE*
7. **Radu MUSAT**, **Ana-Maria PUSCAS**, **Elena HELEREA**
Faculty of Electrical Engineering and Computer Science, Transilvania University of Brasov, Romania
-
- ASPECTS ON THE FUNCTIONAL OPTIMIZATION OF THE TRR – TYPE INDUSTRIAL ROBOT*
8. **Silviu – Mihai PETRISOR**, **Ghita BARSAN**, **Dorel BADEA**
“Nicolae Bălcescu” Land Force Academy, Sibiu, Romania
-
- DETECTION OF ERRONEOUS OPERATION IN TTL INTEGRATED CIRCUITS USING MODULUS FUNCTIONS OF NOISE MARGINS*
9. **Mircea Iulian PORTEANU**
University of Oradea, Romania
-
- ON INTEGRATING AUTONOMOUS MOBILE ROBOTS IN AN INTELLIGENT ENVIRONMENT*
10. **Ioan SUSNEA**, **Grigore VASILIU**
“Dunarea de Jos” University, Galati, Romania
-
- A FRAMEWORK FOR CREATING MIXED ROBOT FORMATIONS WITH PHYSICAL AND VIRTUAL AGENTS*
11. **Ioan SUSNEA**, **Grigore VASILIU**
“Dunarea de Jos” University, Galati, Romania
-
- NEW DESIGN METHOD FOR ASYNCHRONOUS DIGITAL SYSTEMS*
12. **Mihai TIMIS**, **Alexandru VALACHI**
„Gh.Asachi” Technical University, Iasi, Romania

4.2 MECHANICAL ENGINEERING

Conference Room E10

MODERATORS:

- **Vasile NASTASESCU**
- **Lavinia GAVRILA**
- **Adriana FOTA**

-
- THE MATHEMATICAL MODELLING OF CHANNEL TEMPERATURE MEASUREMENT OF AIRCRAFT ENGINE EXHAUST GASES*
1. **František ADAMČÍK, Jan LABUN, Peter KRAJŇÁK**
Department of Avionics, Faculty of Aeronautics of Technical University of Košice, Slovak Republic
-
- STRESS ANALYSIS WITH FINITE ELEMENT METHOD OF LARGE BEARINGS HOLLOW ROLLERS USED IN WIND TURBINE SYSTEM*
2. **Sorin-Adrian BARABAŞ, Adriana FOTA, Cornel SERBAN, Nadia STOIAN**
Transilvania University of Brasov, Romania
-
- PROCESSING AND EVALUATION OF MEASUREMENT RESULTS A CAMBER GEARS USING KIMOS*
3. **Gianina TIMOFTE CHIRUGU, Marius CHIRUGU**
“Gheorghe Asachi” Technical University, Iasi, Romania
-
- IMPROVING WORKPLACE ORGANIZATION USING 5S METHOD*
4. **Gianina TIMOFTE CHIRUGU, Marius CHIRUGU**
“Gheorghe Asachi” Technical University, Iasi, Romania
-
- THE PARAMETRIC CORRELATION OF THE WOOD CABLE MOLDING AT THE KINEMATICS PROCESS WITH CONSTANT PITCH*
5. **Ivan CISMARU, Adriana FOTIN**
Transilvania University of Brasov, Romania
-
- CALCULUL TRANSPORTOARELOR PNEUMATICE*
6. **Gabriela Simona DUMITRESCU**
“Mihai Eminescu” National College High School, Constanta, Romania
-
- THE OPTIMIZATION OF ADVANCED PRODUCT SYSTEMS USED THE FUZZY ALGORITHM*
7. **Adriana FOTA, Sorin BARABAS, Nadia STOIAN, Magdalena BARBU**
Transilvania University of Brasov, Romania
-

- EXPERIMENTAL RESEARCH CONCERNING THE POWER CONSUMPTION DURING THE SANDING PROCESS OF BIRCH WOOD*
8. **Adriana FOTIN, Ivan CISMARU, Mátyás MARTHY, Luminita BRENCI, Camelia COSEREANU**
Transilvania University of Brasov, Romania
-
- STUDY CONCERNING THE INFLUENCE OF MILLING PARAMETERS UPON THE SURFACE QUALITY OF THE BIRCH AND PEAR WOOD*
9. **Adriana FOTIN, Matyas MARTHY, Ivan CISMARU**
Transilvania University of Brasov, Romania
-
- CONCERNS REGARDING THE STUDY OF IMPACT BETWEEN AN AIRCRAFT AERODYNAMICAL SURFACE AND A FOREIGN OBJECT*
10. **Mihai IVANICA**
Military Technical Academy, Bucharest, Romania
-
- GLOBAL FLOW RATE MODELLING WITH LOCAL HEATING TRANSITORY REGIME*
11. **Vlad JINGA, Ramona Georgiana OROS, Cornel SAMOILA, Doru URSUTIU**
Faculty of Material Science and Engineering, Transilvania University of Brasov, Romania
-
- ABOUT SMOOTHING FUNCTIONS USED IN SPH METHOD*
12. **Vasile NASTASESCU*, Lavinia GAVRILA****
*Military Technical Academy-Bucharest, Romania
**"Henri Coanda" Air Force Academy, Brasov, Romania
-
- APPROACHES CONCERNING THE OPTIMIZING OF SUPPORTING STEEL FRAME OF A WHEEL LOADER ENGINE BONNET*
13. **Ionut SERBAN*, Gheorghe BOBESCU*, Cornel ARAMA****
*Transilvania University of Brasov, Romania
**"Henri Coandă" Air Force Academy, Brasov, Romania
-
- DESIGN APPROACHES OF A BIOMASS HOT AIR UNIT OPERATING A SMALL AUTOMOTIVE MOBILE MAINTENANCE FACILITY*
14. **Ionut SERBAN*, Gheorghe BOBESCU*, Cornel ARAMA****
*Transilvania University of Brasov, Romania
**"Henri Coandă" Air Force Academy, Brasov, Romania
-
- INTEGRATION OF NONDESTRUCTIVE TESTING IN AIRCRAFTS MAINTENANCE*
15. **Constantin STANCU, Emil GRIGORE, Dorin STOIAN, Alina DUMITRU**
Research & Flight Test Center, Craiova, Romania
-

*AIMING PROCESS ALGORITHMS AND ALGORITHMS
DETERMINING THE SECOND INITIAL MOMENT OF BOMB
DROPPING ERROR*

16.

Ognyan STOYKOV, Milen ATANASOV

Faculty of Aviation “Vassil Levski” National Military University Dolna Mitropolia, Bulgaria

*THEORETICAL AND EXPERIMENTAL STUDY OF THE UNSTEADY
HEAT TRANSFER IN THE BARREL WALL OF THE ARMAMENT*

17. *SYSTEM*

Titica VASILE, Cristian BARBU, Florin-Radu SUCIU

Military Technical Academy, Bucharest, Romania

4.3 MATERIALS AND TECHNOLOGY

Conference Room E10

MODERATORS:

➤ **Ion DINESCU**

➤ **Mihaela SMEADA**

➤ **Adela – Eliza DUMITRASCU**

*STUDY ON THE INFLUENCE OF MECHANICAL VIBRATIONS
ALLOYS PROPERTIES*

1. **Alexandru Stefan BANEA, Ionut Bogdan ROMAN, Adrian GALEA, Mircea Horia TIEREAN**

Transilvania University of Brasov, Romania

*DEGRADATION OF MECHANICAL PROPERTIES OF ARMORED
STEELS AFTER ITS WELDING*

2. **Igor BARÉNYI, Ondrej HÍREŠ, Peter LIPTÁK**

Faculty of Special Technology, Alexander Dubcek University of Trencin, Slovak Republic

*METHODS OF INVESTIGATING AT A NANO-LEVEL THE SURFACES
OF METALLIC MATERIALS IN LIQUID ENVIRONMENTS*

3. **Marius Dan BENTA, Camelia GHIOCCEL, Lizica MODEL**

*Transilvania University of Brasov

** Transport Technical College, Brasov, Romania

*THE DESCRIPTION OF METALLIC LAYERS THROUGH SENSOR –
SURFACE INTERACTION*

4. **Marius Dan BENTA*, Constantin STRIMBU**, Stefan NEDELICU**, Violeta VASILACHE***

*Transilvania University of Brasov, Romania

**“Henri Coanda” Air Force Academy, Brasov, Romania

***“Stefan cel Mare” University, Suceava, Romania

- SOME ASPECTS REGARDING IMPACT ABSORBERS APPLIED ON AIRCRAFT LANDING GEARS*
5. **Daniel BOSNICEANU**
Military Technical Academy, Bucharest, Romania
-
- ELASTIC FOUNDATION MODEL OF ROLLING CONTACT WITH FRICTION BY FINITE ELEMENT*
6. **Ioan ENESCU, Badea LEPADATESCU, Adela –Eliza DUMITRASCU**
Transilvania University of Brasov, Romania
-
- RESEARCH ON RECONDITIONING WELDING ROTOR COAL PULVERIZING MV*
7. **Adrian GALEA, Alexandru Livius VAS, Ionut ROMAN, Alexandru BANEA ,TRIF Iacob-Nicolae**
Transilvania University of Brasov, Romania
-
- EXPLOSIVE WELDING OF COPPER TO STEEL*
8. **Victor GHIZDAVU**
Military Technical Academy, Bucharest, Romania
-
- WEAR FACTORS ACTING ON AVIATION TURBO ENGINES*
- Gheorghe IONESCU*, Sorin DIMITRIU**, Victor MANOLIU*, Sorina ILINA*, Constantin VILCU*****
9. *National Institute for Aerospace Research, Bucharest, Romania
** “Politehnica” University of Bucharest, Romania
***Romanian Research & Development Institute for Gas Turbines, Bucharest, Romania
-
- ANTIFRICTION MATERIALS TECHNOLOGIES TO ACHIEVE BY ELECTROMAGNETIC SUBMITTING*
10. **Elena IRIMIE**
Military Technical Academy, Bucharest, Romania
-
- ANALYSIS OF SPECIFIC AREAS ON LASER WELDS CROSS-SECTION*
11. **Ramona LASLAU, Remus BOBOESCU**
Mechanical Faculty, Politehnica University, Timisoara, Romania
-
- LASER BEAM DEFOCUSING EFFECTS ON LASER WELDS SURFACES*
12. **Ramona LASLAU, Remus BOBOESCU**
Mechanical Faculty, Politehnica University, Timisoara, Romania
-
- ADVANCED MATERIALS FOR AEROSPACE, COMPOSITE WITH FINE STRUCTURE*
13. **MARGINEAN I., FLOREA B**
“Politehnica” University of Bucharest, Romania
-
- VIBRATING METAL MELTS SOLUTION COMPACTION WALL CASTINGS*
14. **I. MARGINEAN, B. FLOREA, B.AI. VERDES**
“Politehnica” University of Bucharest, Romania
-

15. *VIBRATING THE COOLING MELTS METAL FINISHING SOLUTION STRUCTURES*
I. MARGINEAN, B. Florea, I. V. ANTON
 “Politehnica” University of Bucharest, Romania
-
16. *SPECIAL MULTY-LAYER MATERIALS OBTAINING USING NONCONVENTIONAL METHODS*
Stefan Mircea MUSTATA, Mihai MIHAILA-ANDRES, Ciprian – Marius LARCO
 Military Technical Academy, Bucharest, Romania
-
17. *THE INFLUENCE OF REINFORCED FIBERS ON CHARACTERISTICS COMPOSITE STRUCTURES*
Stefan - Mircea MUSTATA
 Military Technical Academy, Bucharest, Romania
-
18. *CONSIDERATIONS ON CORROSION AND CORROSION PROTECTION OF SURFACES WORKING UNDER HIGH TEMPERATURE CONDITIONS*
Sorin PAVEL
 General Staff, Bucharest, Romania
-
19. *NANOMANUFACTURING AND THE INDUSTRIAL APPLICATION OF NANOTECHNOLOGIES*
Vasile N. POPA
 Transilvania University of Brasov, Romania
-
20. *THE APPLICATION OF CRYOGENIC TREATMENT ON COLD PLASTIC DEFORMATION STEELS*
Paul POPA, Ioan GIACOMELLI, Maria STOICANESCU, Maria DRAGOMIR –GROZA
 Transilvania University of Brasov, Romania
-
21. *POKA YOKE – A TOOL FOR COMPETITIVENESS IN DIE PRODUCTION SYSTEMS*
Mariana C. RASINA
 Transilvania University of Brasov, Romania
-
22. *IMPLEMENTED TPM TO INCREASE THE COMPETITIVENESS DIE PRODUCTION SYSTEMS*
Mariana C. RASINA, Vladimir M. KLEIN
 Transilvania University of Brasov, Romania
-
23. *SPECIALIZED DEVICES FOR POSITIONING AND FIXING, THE MECHANIZATION OF WELDING OPERATION*
Florin SAPARIUC , Adrian DRAGAN, Ionut UNCU, Alin PARPALEA, Iacob-Nicolae TRIF
 Transilvania University of Brasov, Romania
-

24. **Florin SAPARIUC, Ionut UNCU, Maria HERESCU (ROSCA), Camelia RADU (HANEA), TRIF Iacob-Nicolae**
Transilvania University of Brasov, Romania
-

4.4 RENEWABLE ENERGY AND ENVIRONMENT, FOOD PRODUCTION

Conference Room E13

MODERATORS:

- **Ion SOBOR**
- **Laurian GHERMAN**

-
1. *IMPACT OF LOW-E GLASS AND INSULATING SPACERS ON CONDENSATION*
Beatrice-Cristina ANTON (PACEA), Serban BOBANCU
Transilvania University of Brasov, Romania
-
2. *INFLUENCE OF MICROCLIMATE ON WINDOWS AND DOORS*
Beatrice-Cristina ANTON (PACEA)
Transilvania University of Brasov, Romania
-
3. *APPLICATION OF METEOINFORMATICS FOR THE ANALYSIS OF WEATHER FORECAST DATA*
Mirela COMAN, Gilbert TARO, Cioruța BOGDAN
North University of Baia Mare, Romania
-
4. *RESEARCHES ON ENVIRONMENT MANAGEMENT – PRINCIPLE OF SUSTAINABLE DEVELOPMENT*
Adela –Eliza DUMITRASCU, Badea LEPADATESCU, Ioan ENESCU
Transilvania University of Brasov, Brasov, Romania
-
5. *RESEARCH ON THE FLY ASH CHARACTERISTICS FROM THERMAL POWER STATIONS*
Alexandra MARMANDIU, Teodor MACHEDON PISU
Transilvania University of Brasov, Romania
-
6. *TECHNICAL ASPECTS OF CAPTURE INSTALLATION OF FLY ASH FROM THERMAL POWER STATIONS*
Alexandra MARMANDIU, Teodor MACHEDON PISU
Transilvania University of Brasov, Romania
-

7. *THE ROLE OF PLM IN ECOLOGIC DESIGN OF ELECTRONIC DEVICES*
Luminita POPA
 Transilvania University of Brasov Romania
-
8. *THE ROLE OF VIRTUAL COLLABORATIVE ENGINEERING IN PRODUCT DEVELOPMENT*
Luminita POPA
 Transilvania University of Brasov Romania
-
9. *STUDY OF PROPELLANT PRESERVATION USING A RE-LIQUEFIER SYSTEM*
Viorel POPA*, Marius CUZIC, Nicusor VATACHI***
 * “Dunărea de Jos” University, Galati, Romania
 ** CRIOMECH S.A., Galati, Romania
-
10. *CHARACTERISTICS CALCULATION OF THE WIND ELECTRIC WATER PUMPING SYSTEM*
Ion SOBOR, Vasile RACHIER
 Technical University of Moldova, Chisinau, Moldova
-
11. *MODIFIED CLAUS PROCESS APPLIED TO NATURAL GAS FOR SULFUR RECOVERY*
Nicusor VATACHI, Viorel POPA
 “Dunărea de Jos” University, Galati, Romania
-
12. *THE THERMAL MANAGEMENT OF BUILDING SECTOR ENERGY SAVINGS USING ELECTRICAL DEVICES FOR HEAT TRANSFER*
Vasile N.POPA
 Transilvania University of Brasov, Romania
-
13. *ELECTROPHYSICAL TREATMENT OF THE SECONDARY MILK PRODUCTS*
Mircea BOLOGA, Elvira SPRINCEAN (VRABIE), Alexandru BOLOGA, Tatiana STEPURINA, Albert POLIKARPOV
 Institute of Applied Physics, Academy of Sciences of Moldova
-
14. *INTEGRATED SYSTEM FOR AIR TRANSPORT OF DANGEROUS GOODS*
Eugene BUSA
 FPC IFPTR Arad, Romania
-
15. *PHYSICAL PARAMETERS INFLUENCE IN FRIED POTATOES PROCESSING*
Mihaela MATEI, Carol CSATLOS
 Transilvania University of Brasov, Romania
-
16. *POTATOES CRISPS QUALITY FROM FIELD TO FINISHED PRODUCT*
Mihaela MATEI, Carol CSATLOS
 Transilvania University of Brasov, Romania
-

5. AIR FORCE

Conference Room E5

MODERATORS:

- **Pavel BUCKA**
- **Oana – Andreea PIRNUTA**
- **Petr CECH**

-
- AERONAUTICAL ACTIVITY UNDER THE CONDITIONS OF THE FLEXIBLE USE OF AIRSPACE*
- 1. Traian ANASTASIEI***, **Oana-Andreea PIRNUTA****, **Gabriela Prelipceanu******, **Mircea BOSCOIANU*****, **Anca SUMANARU****
* "Carol I" National Defense University, Bucharest, Romania
** Transilvania University of Brasov, Romania, *** "Henri Coanda" Air Force Academy, Brasov, **** "Ștefan Cel Mare" University, Suceava, Romania
-
- SOME ASPECTS REGARDING THE ARCHITECTURE AND BASIC REQUESTS FOR AN AIR DEFENCE BATTALION COMMAND POST*
- 2. Silviu BALUTA***, **Marian PEARSICA****
* The Military Equipment and Technology Research Agency, Bucharest, Romania, ** „Henri Coandă” Air Force Academy, Brasov, Romania
-
- THE CONCEPT OF FLEXIBLE USE OF AIRSPACE*
- 3. Constantin BUJOR**
“Politehnica” University of Bucharest, Romania
-
- KAIZEN - NEW INSTRUMENT FOR PROCESSES OF MAINTENANCE IN AIR FORCE*
- 4. Michal CEHLÁR**, **Katarína TEPLICKÁ**, **Stanislav SZABO**
Technical University of Košice, Slovak Republic
-
- EVALUATION METHODS FOR AERIAL TARGET-TYPE SELF-CONFIGURATION SYSTEMS DESIGNATED FOR TRAINING FIRING WITH SELF-DIRECTED AIR-TO-AIR AND GROUND-TO-AIR OPERATIONAL MISSILES*
- 5. Dumitru DRAGOMIR**, **Constantin NUTA**, **Matei POPA**, **Marin FIRANESCU**, **Dragos SANDU**
Research & Flight Test Center - Craiova
-
- THE EU AND THE EUROPEAN DEFENSE MARKET*
- 6. Cristian ENE**, **Marian OANA**
“Henri Coanda” Air Force Academy, Brasov, Romania
-
- CAPABILITIES AND RISKS IN THE MEDIUM AND LONG TERM PLANNING IN THE AIR FORCE - METRICS AND METHODS*
- 7. Ionel HORNEA**
-

CONCERNS OVER FLIGHT PARAMETERS INTERPRETATION IN ORDER TO IDENTIFY THE CAUSE – EFFECT CONNECTION IN FLIGHT OCCURRENCES

8.

Mihai IVANICA

Military Technical Academy, Bucharest, Romania

COMPARATIVE EVALUATION OF RADICAL AND “DESTRUCTIVE” ORGANIZATIONS

9.

Batyr KHALMURADOV, Pavel NEČAS

* National Aviation University, Kiev, Ukraine

** “Gen. M.R. Štefánik” Armed Forces Academy, Liptovský Mikuláš, Slovak Republic

COMMUNICATION AND INFORMATION SYSTEMS WITHIN THE CRISIS MANAGEMENT

10.

Marcel LINEK

“Gen. M.R. Štefánik” Armed Forces Academy, Liptovský Mikuláš, Slovak Republic

IAR-99 GROUND VIBRATION TESTS AND DYNAMICS FINITE ELEMENT MODEL

11.

Dorin LOZICI-BRINZEI, Simion TATARU, Radu BISCA

* National Institute for Aerospace Research, Bucharest, Romania

**Aerospace Consulting, Bucharest, Romania

REAL-TIME AERIAL VIDEO TRANSMISSION FROM A UAV PLATFORM TO A GROUND STATION

12.

Andrei MACARESCU

“Aurel Vlaicu” Air Force Training School, Boboc, Romania

TYOLOGY AND PHYSIOGNOMY OF FUTURE CONFLICTS

13.

Basil MAIER

THE FIRE FLY (“LICURICIUL”) – A VERSATILE TARGET FOR ANTI-AIRCRAFT DEFENCE

14.

Niculae MARIN*, Elena MARIN**

*Aerospace Consulting, Bucharest, Romania

** Arcad & Research, Bucharest, Romania

MUTATIONS AND LINES OF EVOLUTION OF MILITARY SYSTEM IN THE CONTEXT OF GLOBALIZATION

15.

Ovidiu MOSOIU*, Ion BALACEANU, Danut BALOS***

*,Henri Coandă”, Air Force Academy Brasov, Romania

MILITARY TRANSFORMATION IN THE CONTEXT OF GLOBALIZATION

16.

Oana-Andreea PIRNUTA*, Mircea BOSCOIANU, Gabriela Prelipceanu****, Anca SUMANARU*, Traian ANASTASIEI*****

*Transilvania University of Brasov, Romania, **"Henri Coanda" Air Force Academy, Brasov, Romania*** "CAROL I" National Defence University, Bucharest, Romania, ****“Ștefan Cel Mare” University, Suceava, Romania

V-22 OSPREY: WAGING ITS OWN WAR

Tomáš SCHÖBER*, **Matuš GREGA***, **Pavel NEČAS****

17. *Central ground-controlled interception, Operation Centre Zvolen, Slovak Republic
** “Gen. M.R. Štefánik” Armed Forces Academy, Liptovský Mikuláš, Slovak Republic
-

PERFORMING PHYSICAL EDUCATION IN THE ARMY

18. **Madalin SLANICEANU**
“Henri Coandă” Air Force Academy, Brasov, Romania
-

AIRLINES PRIVATIZATION ASPECTS

19. **Luboš SOCHA***, **Pavol KAVKA***, **Pavel NEČAS****
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20. **Róbert SZABOLCSI**
“Zrínyi Miklós” National Defense University, Budapest, Hungary
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Technical University of Košice, Slovak Republic
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Corresponding member of the Academy of Romanian Scientists, Romania

THE COANDĂ VTOL-UAV AEROMECHANICAL ASPECTS

1. **George BALAN ***, **Sorin-Gabriel CONSTANTINESCU ***, **Bogdan CIOBANU ****
*“Dunărea de Jos” University, Galati, Romania
** “Gheorghe Asachi” Technical University, Iasi, Romania
-

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2. Sorin-Gabriel CONSTANTINESCU, Florin NEDEL CUT

“Dunărea de Jos” University, Galati, Romania

ATTACK OF THE DRONES: UNMANNED AERIAL VEHICLES AS AN INSTRUMENT OF WAR

3. James M. KEAGLE, Bailey Ann CAHALL

Center for Technology and National Security Policy, National Defense University, USA

AN OVERVIEW ON THE CONCEPT OF UAV SURVIVABILITY

4. Adrian MURARU

“Ștefan Cel Mare” University, Suceava, Romania

LUAV'S ARE THE RIGHT APPROACH FOR SURVEILLANCE CIVIL MISSIONS

5. Florin NEDEL CUT, Sorin-Gabriel CONSTANTINESCU

“Dunărea de Jos” University, Galati, Romania

INTRODUCTION MORPHING TECHNOLOGY IN UNMANNED AIRCRAFT VEHICLES (UAV)

6. Vasile PRISACARIU, Vasile SANDRU, Ionica CIRCIU

„Henri Coandă” Air Force Academy, Brasov, Romania

ASPECTS REGARDING THE CONCEPT, DEVELOPMENT AND USE OF MODERN UAVS

7. Vasile PRISACARIU, Vasile ȘANDRU, Cristea-Gabriel RAU

„Henri Coandă” Air Force Academy, Brasov, Romania

UAV CONTROLLER SYNTHESIS USING LQ-BASED DESIGN METHODS

8. Robert SZABOLCSI

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