

**„HENRI COANDĂ”
AIR FORCE ACADEMY**



ROMANIA

**General
MILAN RASTILAV STEFANIK
ARMED FORCES ACADEMY**



SLOVAK REPUBLIC

AFASES 2010

THE 12th INTERNATIONAL CONFERENCE OF
SCIENTIFIC PAPERS

"SCIENTIFIC RESEARCH AND EDUCATION
IN THE AIR FORCE"

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

**27 – 29 May, 2010
Brasov-ROMANIA**

ORGANIZING COMMITTEE

Chairman:

Capt Cdr Prof **Mircea BOSCOIANU**, PhD

Vice-chairman:

Prof Eng **Ion DINESCU**, PhD

Members:

Dipl Eng **Jorg DITTRICH**

Lecturer Eng **Liliana MIRON**, PhD

Lt Cdr Eng **Ionica CIRCIU**

Capt Lecturer **Adrian LESENCIUC**

TA **Bogdan MUNTEANU**

TA **Gheorghe RADU**

Capt **Catalin CIOACA**

Math **Carmen URSOIU**

INTERNATIONAL SCIENTIFIC COMMITTEE

Honorary president:

Major General **Ion-Aurel STANCIU**, PhD

Presidents ship:

Cdr Prof. **Gabriel-Florin MOISESCU**, PhD

Brigadier General **Miroslav KELEMEN**

Dipl-Ing **Volker SCHULZE**

Members:

Cdr (r) Prof **Traian ANASTASIEI**, PhD

Assoc Prof Eng **Valentina BĂLAȘ**, PhD

Cdr Prof Eng **Ghiță BÂRSAN**, PhD

Assoc Prof **Margareta BOACA**, PhD

Prof **Dorin BOCU**, PhD

Assoc.Prof. Dipl.Eng. **Pavel BUCKA** PhD

Prof Eng **Mihai CIOBOTA**, PhD

Prof Eng **Ioan GIACOMELLI**, PhD

Prof Eng **Elena HELEREA**, PhD

Assoc Prof **Rudolf HORAK** PhD

Eng **Miroslav HRUBY**

Prof Eng **Nicolae JULA**, PhD,

Prof **Alexei LEAHU**, PhD

Assoc Prof **Doru LUCULESCU**, PhD

Lt Col Assoc Prof Eng **Jaromir MARES**, PhD

Prof **Vasile MACOVICIUC**, PhD

Mr GI (r) Prof **Florentin MORARU**, PhD

CS1 Eng **Catalin NAE**, PhD,

Prof Eng **Vasile NĂSTĂSESCU**, PhD

Col.(GS) **Pavel NECAS**

Prof **Stefan NEDELCU**, PhD

Col Prof Eng **Ioan NICOLARESCU**, PhD

Prof Eng **Stelian PANZARU**, PhD
Lt Col Assoc Prof **Marian PEARSICA**, PhD
Roy PESIN, PhD
Asoc.prof **Anca PETRE**, PhD
Lt Col Eng **Akos POROSZLAI**, PhD
Prof Eng **Gabriela PRELIPCEAN**, PhD
Prof **Domnica RADULESCU**, PhD
Prof **Mihai ROMAN**, PhD
Cdr Prof **C-tin ROTARU**, PhD
Cdor Prof **Gheorghe SAMOILESCU**, PhD
Prof Math **Florentin SMARANDACHE**, PhD
Prof Eng **Milan SOPOCI**, PhD
Prof **Stelian STANCU**, PhD
Prof Eng HC **Virgil STANCIU**, PhD
Col. **Miroslav SUHAJ**
Col. Prof **Robert SZABOLCSI**, PhD
Prof Eng **Alex STEFAN**, PhD
Prof Eng **Mircea ȚIEREAN**, PhD
Prof Eng **Petrică VIZUREANU**, PhD
Prof Eng **Peter VORSMANN**, PhD

SCHEDULED ACTIVITIES
**THE XII-th INTERNATIONAL CONFERENCE OF
SCIENTIFIC PAPERS**
**„SCIENTIFIC RESEARCH AND EDUCATION
IN THE AIR FORCE”**

27 May 2010

10⁰⁰ - 18³⁰ Arrival of participants. Accommodation
19⁰⁰ Cocktail

28 May 2010

08⁰⁰ - 08³⁰ Welcoming and registration
08³⁰ - 09³⁰ Opening of the session
 - Opening speeches
 - Organizational specifications
09³⁰ - 11³⁰ Plenary session
11³⁰ - 12⁰⁰ Break
12⁰⁰ - 14⁰⁰ Paper presentation on sections (I)
14⁰⁰ - 15³⁰ Break
15³⁰ - 17⁰⁰ Paper presentation on sections (II)
17⁰⁰ - 17³⁰ Break
17³⁰ - 19⁰⁰ Paper presentation on sections (III)
19³⁰ Official dinner

29 May 2010

09⁰⁰ - 14⁰⁰ Sightseeing activities
14⁰⁰ - 23⁰⁰ Departure of participants

PLENARY SESSIONS

ACADEMY AULA

Speaker: Ion Aurel STANCIU

Chief of Romanian Air Force, Romania

1. *„AIR FORCE CAPABILITIES IN COMBINED JOINT OPERATIONS”*

Speaker: Milan SOPÓCI

Armed Forces Academy of gen. M. R. Štefánika, Liptovský Mikuláš, Slovakia

2. *„NEW METHODS IN EDUCATION OF AIR DEFENCE STUDENTS“*

THE SESSIONS SECTIONS

Pag.

- 1 ***SOCIO-HUMANITIES***
 - 1.1 **SOCIAL SCIENCES - FOREIGN LANGUAGES**
 - 1.2 **MANAGEMENT**

- 2 ***MATHEMATICS, IT&C – COMPUTER SCIENCE***
 - 2.1 **MATHEMATICS - COMPUTER SCIENCE**
 - 2.1 **INFORMATION TECHNOLOGY AND COMMUNICATIONS**

- 3 ***ENGINEERING SCIENCES***
 - 3.1 **ELECTRICAL AND ELECTRONICAL ENGINEERING**
 - 3.2 **MECHANICAL ENGINEERING**
 - 3.2 **MATERIALS AND TECHNOLOGY**

- 4 ***AIR FORCE***
 - 4.1 **MILITARY SCIENCES - OPERATIONAL WARFARE AND TACTICS**
 - 4.2 **MILITARY TECHNIQUE**

- 5 ***DEVELOPMENTS IN THE FIELD OF UAS's***

1.1. *SOCIALSCIENCES and FOREIGN LANGUAGES*

Sala E77

MODERATORI:

- **Florentin SMARANDACHE**
- **Diana ILIȘOI**
- **Maria Dorina PAȘCA**

1. *STRATEGIES OF NEGOTIATION BETWEEN THE INDIVIDUAL AND
NEW SOCIAL GROUPS*
Mădălina ALAMĂ
University Of Nevada, Reno

2. *TELEVISION – SOURCE OF INCREASED AGGRESION IN
CHILHOOD*
Anca Olga ANDRONIC
„Spiru Haret” University, Faculty Of Psychology And Educational
Sciences, Brașov

3. *SOURCES OF INFORMATION IN CAREER COUNSELING*
Anca Olga ANDRONIC
„Spiru Haret” University, Faculty Of Psychology And Educational
Sciences, Brașov

4. *MEDIA AND PROSOCIAL BEHAVIOUR*
Răzvan-Lucian ANDRONIC
„Spiru Haret” University, Faculty Of Psychology And Educational
Sciences, Brașov

5. *A STUDY REGARDING THE STUDENTS’ MOTIVATION FOR
CHOOSING THE MILITARY PROFESSION*
BURSUC Cătălin, NEAGU Andreea

6. *THE COUNSELLING AND PROFESSIONAL ORIENTATION’
THEORIES. APPLICATIONS IN THE MINISTRY OF NATIONAL
DEFENSE*
BURSUC Cătălin, NEAGU Andreea

7. *METACOGNITIVE LEARNING STRATEGIES IN HIGHER
EDUCATION*
Ana-Maria Cazan, Simona Elena Indreica
Transilvania University Of Brasov, Romania

- RETHINKING MILITARY ORGANIZATIONAL ARCHITECTURES FROM THE PERSPECTIVE OF INTERCULTURAL MATTERS UNDERLYING MULTINATIONAL MISSIONS MANAGEMENT*
8. **Aura CODREANU**
Regional Department Of Defense Resources Management Studies,
Brasov, Romania
-
- PROFESSIONAL LINE IN BOLOGNA PROCESS*
9. **Ioan CURTU***, **Mariana Domnica STANCIU***, **Vasile NĂSTĂSESCU****
*Romanian Agency For Quality Assurance In Higher Education (ARACIS), Bucharest, Romania, **Military Technical Academy, Bucharest, Romania
-
- ADVERBIAL PAST PARTICIPLES IN ENGLISH AND ROMANIAN*
10. **Viorela -Valentina DIM**
*Bucharest Academy Of Economic Studies, Romania
-
- HEMISPHERIC DOMINANCE AND TEMPERAMENT IN NON-VERBAL COMMUNICATION*
11. **Elena-Simona INDREICA**, **Ana-Maria CAZAN**
Transilvania University Of Brasov, Romania
-
- LEARNING STYLES - THE FACTOR IN INFLUENCING STUDENT ACHIEVEMENT*
12. **Corina IUREA***, **Cristina Georgiana Safta****, **Georgeta CRIVOI*****
"Titu Maiorescu" University, Bucharest, Romania, **Petroleum-Gas University, Ploiesti, Romania, *Sam Silistea, Constanta, Romania
-
- MEDIA AND EDUCATION-INTERACTING AND MUTUAL CAUSALITY*
13. **Corina IUREA***, **Cristina Georgiana SAFTA****, **Claudiu MITU*****
"Titu Maiorescu" University, Bucharest, Romania, **Petroleum-Gas University, Ploiesti, Romania, *Sam Pestera, Constanta, Romania
-
- THE ROLE OF THE NEW TECHNOLOGIES IN CAREER COUNSELING*
14. **Mihaela GURANDA**
Air Force Academy, Roomania
-
- POSTMODERNIST FICTION: THE WAR DISCOURSE*
15. **Edith KAITER**
„Mircea cel Batran" Navy Academy, Constanta, Romania
-
- THE 'AUTHOR' ACORDING TO BARTHES AND FOUCAULT*
16. **KOLUMBĂN Kinga**
Foreign Language Center, "Henri Coandă" Air Force Academy, Braşov
-
- THE CAREER PROFILE OF THE MILITARY STUDENTS*
17. **Adrian LESENCIUC***, **Daniela NAGY***
"Henri Coanda" Air Force Academy, Brasov, Romania

*COMMUNICATION ENGLISH IN THE CONTEXT OF
GLOBALIZATION*

- 18. Ioana Cristina MĂCIUCĂ, Adrian MACARIE**
Faculty Of Communication And Public Relations, National School Of
Political And Administrative, Romania
-

*DESIGN TECHNIQUES FOR KNOWLEDGE COMMUNICATION
PROGRAMS*

- 19. Ioan MAXIM, Tiberiu SOCACIU**
„Ștefan Cel Mare” University, Suceava, Romania
-

FLEXIBLE INTELLIGENCE AND HIGHER EDUCATION

- 20. Karin Megheșan, Brândușa Țeican**
National Intelligence Academy “Mihai Viteazu”, Bucharest, Romania
-

*THE MANAGEMENT OF COMMUNICATION AND EDUCATIONAL
EVALUATION IN MODERN EDUCATION SYSTEM*

- 21. Ștefan – Mircea MUSTAȚĂ*, Cosmin – Ludovic MUREȘAN****
* Military Technical Academy, Bucharest, Romania, ** Minister Of
Labor, Family And Social Protection – Social Inspection
-

*A BRITISH MEMORANDUM FROM 1791 REGARDING NAVIGATION
AND COMMERCE IN THE BLACK SEA – NEW ASPECTS AND*

- 22. COMMENT**

İsmail NILGÜN

The Academy Of Economic Studies, Bucharest

*PSYCHOLOGICAL CONNOTATIONS OF THE CONCEPT WORD
DOOR*

- 23. Maria Dorina PASCA**

Univ. Medicine And Pharmacy Tg. Mures

*THE AFRICAN AMERICAN VERNACULAR ENGLISH IN ALL ITS
CULTURAL UNIQUENESS*

- 24. Oana-Andreea PIRNUTA, Alina-Adriana ARSENI**

TRANSILVANIA University Of Brasov – Romania

MARK TWAIN’S LANGUAGES OF POWER AND WEAKNESS

- 25. Oana-Andreea PIRNUTA, Alina-Adriana ARSENI**

TRANSILVANIA University Of Brasov – Romania

*GLOBAL TOTALITARIANISM, AND THE CRISIS OF NEO-LIB
MOVEMENT*

- 26. Florentin SMARANDACHE**

Chair Of Dept. Of Mathematics & Science, University Of New Mexico,
Gallup,

*THE IMPORTANCE OF ENGLISH LANGUAGE IN THE CONTEXT OF
GLOBALISATION - LINGUISTIC SOURCES OF COALITION*

- 27. MISCOMMUNICATION**

Florin TÎMPLARU*, Cristina TÎMPLARU**

*Flight Test Research, Craiova, Romania, **Secondary School, Izvoare,
Dolj, Romania

1.2. MANAGEMENT

Sala E78

MODERATORI:

- **Gabriela PRELIPCEAN**
- **Jaromir MARES**
- **Rudolf HORAK**

SUSTAINABLE DEVELOPMENT IN RURAL AREAS IN BRASOV COUNTY

1. Răzvan-Lucian ANDRONIC

„Spiru Haret” University, Faculty Of Psychology And Educational Sciences, Braşov

ENVIRONMENT AND SUSTAINABLE DEVELOPMENT

2. Gabriel Cristian BĂJENARU

„Spiru Haret” University, Braşov, România

THE HARMONY BETWEEN WHAT ONE THINKS AND DOES – THE BASIS OF LEADERSHIP. SEDUCTION DOES NOT NECESSARILY IMPLY MANIPULATION

3.

Daniela BELU

Academia Forţelor Aeriene “Henri Coanda”

EMOTIONAL INTELLIGENCE IN THE MILITARY ORGANISATION

4.

Elena CLENCI, Marius RALEA

“Nicolae Bălcescu” Land Forces Academy, Sibiu, Romania

SUPPORTING THE LEADERSHIP CAPABILITIES OF YOUNG OFFICERS

5.

Zdenek FLASAR, Miroslav SUHAJ

University Of Defence, Brno, The Czech Republic

DEFINING ELEMENTS OF FUTURE GENERATION OF MANAGERS

6.

Ligia GÂNAC, Cristina NEAGU, Mădălin RACOLȚA,

Ianos PARTIN

Colegiul Tehnic De Construcții Şi Arhitectură “Christian Kertsch” Braşov

SECURITY OF CRISIS MANAGEMENT WORKPLACE

7.

Rudolf Horák* , Lenka Danielová , Jaromír Mareš* , Vojtěch Hrubý***

* University Of Defence, Brno, The Czech Republic, ** Mendel University In Brno, Institute Of Lifelong Education, Brno, The Czech Republic,

INTERNATIONAL CRIMINAL COURT

8. Lucian HUZUM

Cluj Napoca University, Romania

SECURITY PROPERTY IN ROMANIAN CRIMINAL LAW

9. Lucian HUZUM

Cluj Napoca University, Romania

NATO'S OPERATION PLANNING PROCESS MANAGEMENT

10. Vitezslav JAROS

University Of Defence, Brno, Czech Republic

THE ECO-INDUSTRIAL PARKS' DESIGN

11. Adrian MACARIE, Ioana Cristina MĂCIUCĂ

Faculty Of Communication And Public Relations, National School Of Political And Administrative Studies – Braşov Center

TECHNICAL AND ENVIRONMENTAL COST SAVINGS IN OPERATION BY TRADITIONAL AND INNOVATIVE METHODS

12. DANIELOVA*, Lucie MARESOVA***
Jaromir MARES*, Petr KRIZEK, Rudolf HORAK*, Lenka**

*University Of Defense, Brno, Czech Republic, **Section Of Logistics, MO, Prague, Czech Republic, *** Mendel University Of Agriculture And Forestry, Brno, Czech Republic,

SYSTEMS, METHODS AND MODERN TECHNIQUES IN FAMILY BUSINESS DEVELOPMENT

13. Kinga NAGY, Ovidiu MIRICĂ, Daniel JARAVETE, Edy BARTA, Alexandru DODOC

Colegiul Tehnic De Construcții Şi Arhitectură “Christian Kertsch” Braşov

TRANSFORMATION OF ARMED FORCES IN SLOVAK REPUBLIC AND DEVELOPMENT OF HUMAN RESOURCES

14. Jaroslav Nekoraneč, Ivan Vlček

Management Department Academy Of Armed Forces Of Gen. M.R. Stefanika, Liptovský Mikuláš, Slovak Republic

SOME LEGAL ASPECTS REGARDING INFORMATION SECURITY AND COMPUTER CRIME

15. Ioana NICOLAE

Transilvania University Of Brasov, Romania

IMPACT OF HUMAN RESOURCES MANAGEMENT ON COMPANY'S ECONOMIC PERFORMANCE

16. Stelian PÂNZARU, Camelia ŞTEFĂNESCU

„Spiru Haret” University, Braşov, Romania

CREATIVITY OF MANAGERS IN CONDITIONS OF ARMED FORCES OF SLOVAK REPUBLIC

17. Mária PETRUFOVÁ

Academy Of Armed Forces Of Gen. M.R. Stefanik, Management Department

18. *FINANCIAL MANAGEMENT ASPECTS FOR AN EFFICIENT RECOVERY IN THE CASE OF ASSYMETRIC EXTREME RISK EVENTS*
Gabriela PRELIPCEAN
 University "Stefan cel Mare" of Suceava, ROMANIA
-
19. *AN ANALYSIS OF OPTIMAL POLICY INTERVENTIONS REGARDING THE REMITTANCES*
Gabriela PRELIPCEAN
 University "Stefan cel Mare" of Suceava, ROMANIA
-
20. *VSM, A LEAN MANAGEMENT TOOL, USED FOR HAVE AN COMPETITIVE DIE PRODUCTION SYSTEM*
Mariana C. RĂȘINĂ
 Transilvania University, Brașov, România
-
21. *NEW CONCEPT OF MILITARY LEADERS' EDUCATION*
Miroslav SUHAJ, Zdenek FLASAR
 University Of Defence, Brno, The Czech Republic

2.1. MATHEMATICS – COMPUTER SCIENCE

Sala E44

MODERATORI:

- **Alexei LEAHU**
- **Michal TURČANÍK**
- **Dorin BOCU**

1. *OSCILLATORY SOLUTIONS FOR THE SYSTEMS OF DIFFERENCE EQUATIONS WITH VARIABLE COEFFICIENTS*
Gheorghe ANTON, Gheorghe RADU
 *, **, Henri Coanda" Air Force Academy, Brasov, Romania
-
2. *THE PROXIMAL POINT ALGORITHM ON HADAMARD MANIFOLDS*
Corina L. CHIRIAC
 "Bioterra" University
-
3. *A PROBABILISTIC INTERPRETATION OF A MIXED SEQUENCE OF SUMMATION- INTEGRAL TYPE OPERATORS*
Cristina CISMASIU
 Dep. Analysis Mathematics And Probability, Faculty Of Mathematics And Informatics, Transilvania University , Brașov, Romania
-
4. *A SPECIAL CASE OF ROBBINS-MONROE ALGORITHM*
Neculai CRISMARU
 "Transilvania" University, Brasov, Romania

SOME CONSIDERATIONS ON THE CRACK-INCLUSION INTERACTION

5.

Constantin GHITĂ

Valahia University Of Târgoviște, Department Of Sciences, Romania

HARDWARE AND SOFTWARE PLATFORM FOR TESTING, ANALYSIS AND TRAFFIC OPTIMIZATION USED IN IP COMMUNICATION NETWORKS

6.

Constantin GROZEA, Gigi Daniel BUDARIU, Ionut RADOI

METRA - Military Equipment And Technologies Research Agency, Bucharest, Romania

ONTOLOGY DEVELOPMENT TO SUPPORT COMMAND AND CONTROL SYSTEM

7.

Jan HODICKÝ, Petr FRANTIŠ

University Of Defense, Brno, Czech Republic

SOME SIMILARITY BETWEEN MATH AND PROGRAMMING

8.

Miroslav HRUBY

University Of Defence, Brno, Czech Republic

THE PROFITABLENESS AND THE RISK OF A BUSINESS

9.

Petrisor MANDU, Cristina Liana NICOLAU

“Transilvania” University, Brasov, Romania

THE MATHEMATICAL MODELLING OF UNCERTAINTY IN BUSINESS

10.

Petrisor MANDU, Cristina Liana NICOLAU

“Transilvania” University, Brasov, Romania

CONSIDERATIONS ON THE CONVERGENCE OF A SEQUENCE OF PROBABILITY DENSITY

11.

Bogdan Gheorghe MUNTEANU

”Henri Coandă” Air Force Academy, Brasov, Romania

A MATHEMATICAL MODEL FOR THE STUDY OF VERTICAL AXLE WIND TURBINES

12.

Ștefan NEDELICU*, Mircea LUPU**

*”Henri Coandă” Air Force Academy, **“Transilvania” University, Romania

HARDWARE IMPLEMENTATIONS OF BLOCK CIPHERS IN FPGA CIRCUITS

13.

Ionut RADOI, Florin RASTOCEANU

Military Equipment And Technologies Research Agency”, Bucharest, Romania

ABOUT COMPARATIVE ASPECTS OF EDUCATIONAL SOFTWARE APPLICABLE PRE-UNIVERSITY EDUCATION

14.

Adrian-Gelu RADU*, Marcel SULTĂNESCU**

* “Trades And Services” High School, Buzău, Romania, ** Department Of Science Education, DPIP Buzău, University București, Romania

-
15. *SECURITY OF THE CRYPTOGRAPHIC SYSTEMS BASED FPGA*
Gabriela RĂȘCHITOR , Marilena LAZĂR, Dan FILIP
METRA-Military Equipment And Technologies Research Agency,
Bucharest, Romania
-

16. *AN ALGORITHM FOR QUASI-ASSOCIATIVE AND QUASI-MARKOVIAN RULES OF COMBINATION IN INFORMATION FUSION*
Florentin SMARANDACHE*, Jean DEZERT**
*Department Of Mathematics And Science University Of New Mexico,USA ** ONERA/DTIM/IED, France
-

17. *THE CALCULUS OF VARIATIONS FOR PROCESSES WITH INDEPENDENT INCREMENTS*
Nadia Mirela STOIAN
“Transilvania” University, Brasov, Romania
-

18. *MATHEMATICAL MODELS IN CHAOTIC SYSTEMS*
Marcel SULTĂNESCU, Adrian-Gelu RADU
* Department Of Science Education, DPIP Buzău, University București, Romania, ** “Trades And Services” High School, Buzău, Romania
-

19. *EVOLVABLE HARDWARE*
Michal TURČANÍK, Marcel HARAĀAL, Milos OĀKAY
Armed Forces Academy, Liptovský Mikuláš, Slovak Republic
-

2.2. INFORMATION TECHNOLOGY and COMMUNICATIONS

Sala E46

MODERATORI:

- **Alexandru ȘTEFAN**
- **Julius BARATH**
- **Adrian ALEXEI**

- NATO NEC C2 MATURITY MODEL*
David S. ALBERTS*, Július BARÁTH et al.**
1. *U.S. Department Of Defence, Washington, USA, **Department Of Informatics, Armed Forces Academy Of General Milan Rastislav Štefánik, Liptovský Mikuláš, Slovakia
-

- ACCURACY OF THE DIGITAL MAPS*
2. **Adrian ALEXEI**
“Military Equipment And Technologies Research Agency”, Bucharest, Romania
-

*RESEARCH STUDIES IN ALGORITHM DEVELOPMENTS FOR
AUTOMATIC AND SEMIAUTOMATIC GEOGRAPHIC DATA
ACQUIRING – ACQUIRING THE DATA IN THE FIELD*

3. **Adrian ALEXEI***, **Raoul DRAGOMIR****

* Military Equipment And Technologies Research Agency, Bucharest, Romania, **SC Geo Arc SRL, Bucharest, Romania

DEVELOPMENT PLATFORM FOR CRYPTANALYTIC APPLICATIONS

4. **Gigi Daniel BUDARIU**, **Dan HRITCU**, **Constantin GROZEA**

Military Equipment And Technologies Research Agency, București, Romania

*SOME THEORETICALLY ASPECTS OF THE INVERSE PROBLEM
FROM SEISMOLOGY*

5. **Mihaela DUMITRACHE***, **Horia ENE****, **Bogdan NICOLESCU***

* University Of Pitesti, Pitești, Romania, ** “Simion Stoilow” Institute Of Mathematics Of The Romanian Academy, Bucharest, Romania

*NEW INFORMATION TECHNOLOGY SUPPORT FOR FOREIGNER
MISSION IN THE CZECH ARMED FORCES*

6. **Petr FRANTIŠ**, **Jan HODICKÝ**, **Petr STODOLA**

University Of Defence, Brno, Czech Republic

PREDICTING SEASONALITY AFFECTED PHENOMENA

7. **Cornelia GABER**, **Alexandru SĂLCEANU**

“Oil-Gas” University, Ploiesti, Romania

*COMPUTER APPLICATION FOR TRACKING DATA STORAGE
DEVICES USING RFID TECHNOLOGY*

8. **Mihai GĂISEANU**, **Iulian NICOLA**

Military Equipment And Technologies Research Agency, București, Romania

SATELLITE COMMUNICATION

9. **Marketa MAZALKOVA**

University Of Defence, Brno, Czech Republic

*SECURING THE FLOODING ALGORITHM ON GENERAL
NETWORKS*

10. **Ioan POPOVICIU**

Naval Academy “Mircea Cel Bătrân”, Constanța, România

ABOUT INFORMATION SECURITY

11. **Ioan Gheorghe RATIU***, **Ioan Daniel RATIU****, **Mihail Gabriel RATIU*****

George Baritui” University, Brasov, Romania, **Orix Corporation, Tokyo, Japan, *Blom Bank France-Romania

ABOUT INFORMATION WARFARE

12. **Ioan Gheorghe RATIU***, **Ioan Daniel RATIU****, **Mihail Gabriel RATIU*****
"George Baritiu" University, Brasov, Romania, **Orix Corporation, Tokyo, Japan, *Blom Bank France-Romania
-

MOBILE HEALTH CARE SYSTEM E-LEARNING SECURITY SYSTEM DESIGN

13. **Alex STEFAN**
Bloomfield College, Usa
-

HARDWARE STATISTICAL TESTS FOR RANDOMNESS EVALUATION

14. **Gabriel TÂRȘA**, **Mihai MARIN**, **Daniel HRIȚCU**
"Military Equipment And Technologies Research Agency", Bucharest, Romania
-

3.1. ELECTRICAL and ELECTRONICAL ENGINEERING

Sala 39

MODERATORI:

- **Gheorghe SAMOILESCU**
- **Prof Eng Gheorghe PANĂ**
- **Robert SZABOLCSI**

TEST STAND FOR ELECTRICAL MACHINES USED IN AUTOMOTIVES

1. **Marius-Daniel CALIN**, **Elena HELEREA**
Transilvania University Of Brasov, Romania
-

MODELING AND SIMULATION OF A HIGH ELECTROMAGNETIC PULSE

2. **Vasile DOBREF**, **Alexandru SOTIR**, **Alexandru BACIU**
Academia Navală "Mircea Cel Bătrân", Constanta, Romania
-

LIGHT AIRCRAFT WEIGHT REDUCTION USING NOVEL AVIONICS TECHNOLOGIES

3. **Csaba FARKAS***, **Róbert SZABOLCSI****
*Corvus Aircraft Ltd., Ballószög, Hungary, **Zrínyi Miklós National Defense University, Budapest, Hungary.
-

AIRBORNE SYSTEMS ON HELICOPTER USED TO VERIFY GUN SHUTING PRECISION FOR AMMUNITIONS

4. **Marin FIRĂNESCU, Florian-Mircea BAZACLIU, Ciprian-Geo TĂNĂSESCU, Eugen-Nicolin TRUȘCĂ**
Flight Test Center - Craiova

UNBALANCE IN ELECTRICAL NETWORKS AS INDICATOR OF POWER QUALITY

5. **Ionel LEPADAT*, Cătălin MIHAI**, Elena HELEREA***
*Transilvania University Of Brasov, Romania, ** Transilvania SUD
Electrica Distribution Networks SA, Brasov, Romania

WIRELESS PULSE OXIMETRY

6. **Dan LOZNEANU, Paul BORZA, Gheorghe PANA, Horatiu MOGA**
"Transilvania" University, Brasov, Romania

FAULT MONITORING FOR INDUCTION MACHINE

7. **Larisa MARIUT, Melania FILIP, Elena HELEREA**
Transilvania University Of Brasov, Romania

A METHOD FOR POWER TRANSFER CONTROL TO DIRECT AC-AC PWM CONVERTERS

8. **Ecaterina Liliana MIRON, Mihai MIRON**
"Henri Coanda" Air Force Academy, Brasov, Romania

SOME CONSIDERATION ABOUT INFRARED WIRELESS LINKS

9. **Mihai MIRON, Ecaterina Liliana MIRON**
"Henri Coanda" Air Force Academy, Brasov, Romania

ODVA INDUSTRIAL BUSES INTEGRATION WITH ACTIVE DIRECTORY

10. **Horatiu MOGA, Dan LOZNEANU, Gheorghe PANA**
"Transilvania" University, Brasov, Romania

ELECTRICAL HEATING DEVICES FOR VEHICLES

11. **Radu MUȘAT, Elena HELEREA**
"Transilvania" University, Brasov, Romania

COMPARISON OF ELECTRIC SOURCES IN THE CZECH REPUBLIC AND AFRICA WITH THE INTENTION OF OLAR ENERGY

12. **Miroslav OVESNÝ**
University Of Defense, Brno, Czech Republic

MODULUS FUNCTIONS OF NOISE MARGINS FOR TTL INTEGRATED CIRCUITS

13. **Mircea Iulian PORTEANU**
Department Of Power Engineering, University Of Oradea, Oradea, Romania
-

- EXPERIMENTAL SAMPLING OF THE GENERATOR MODULE FOR THE CONVERSION OF WAVE ENERGY INTO ELECTRIC ENERGY*
Gheorghe SAMOILESCU*, **Dorian MARIN****, **Sergiu NICOLAE****,
14. Serghei RADU***, **Alina BARBU***
 *"Mircea Cel Bătrân" Naval Academy, Constanta, Romania, **National Institute For Research, Development, Innovation For Electro-Techniques, Bucharest, Romania, ***Zodiac Crewing Company
-
- THE ANALYSIS OF THE ELECTRO-ENERGETIC SYSTEM OF A SHIP HAVING ELECTRIC PROPULSION*
Gheorghe SAMOILESCU*, **Adelina SAMOILESCU****, **Serghei**
15. RADU***, **Raluca MATES***
 *"Mircea Cel Bătrân" Naval Academy, Constanta, Romania, **Polytechnic University Of Bucharest, Bucharest, Romania, ***Zodiac Crewing Company
-
- DESIGN OF ASYNCHRONOUS DIGITAL SYSTEMS WITH LOCALLY CLOCK METHOD*
16. Mihai TIMIS, **Alexandru VALACHI**
 Technical University „Gh.Asachi” Iasi
-
- TARGET THERMAL SIGNATURE IN IR IMAGES*
17. Cornel TODIRICĂ, **Niculae GUZULESCU**
 Military Equipment And Technology Research Agency – METRA
-
- LIDAR, SATELLITE IMAGES AND TRAJECTORY MODELS FOR INVESTIGATING LAYERS OF AEROSOLS AND DUST DANGEROUS FOR AIRCRAFTS*
18. Ion VETRES, **Ioana IONEL**
 Politehnica University Of Timisoara,
-

3.2.1 MECHANICAL ENGINEERING

Sala E10

MODERATORI:

- **Ion FUIOREA**
- **Titică VASILE**
- **Doru Adrian GOGA**

1. *ABOUT AERODYNAMIC CALCULUS OF IMPELLERS USING THE NUMERICAL METHODS*
Beazit ALI, Gheorghe SAMOILESCU
“Mircea Cel Bătrân” Naval Academy, Constanta, Romania

2. *THE DESIGN OF AXIAL PUMP ROTORS USING THE NUMERICAL METHODS*
Beazit ALI, Gheorghe SAMOILESCU, Levent ALI
“Mircea Cel Bătrân” Naval Academy, Constanta, Romania

3. *AN ALGORITHM FOR SENSOR DATA FUSION FOR UNMANNED MINI AERIAL VEHICLES*
Corneliu AXENTE, Silviu BĂLUȚĂ
Military Equipment And Technologies Research Agency, Bucharest, Romania

4. *COMPUTERIZED SIMULATION OF THE CARBURIZING PROCESS FOR THE HOLLOW ROLLERS OF LARGE BEARINGS*
Sorin-Adrian BARABAȘ, Cornel SERBAN, Adriana FOTA
“Transilvania” University, Brasov, Romania

5. *AN OVERVIEW OF MOTION EQUATIONS OF THE MAIN LANDING GEAR*
Daniel BOSNICEANU
Military Technical Academy, Bucharest, Romania

6. *LS-DYNA NUMERICAL SIMULATION OF 7.62 MM BULLETS IMPACT WITH A NATO CONTAINER WALL*
Adina BOTEANU, Andrei SZILAGYI, Petru MAZĂRE, Daniela CĂZĂNARU, Ștefan STOICA
Military Equipment And Technologies Research Agency, Bucharest, Romania

7. *RISE SAFETY AND SECURITY OF AIR TRANSPORT OF DANGEROUSE GOODS*
Eugene BUSA
CFP IFPTR Arad

WOOD WASTE BIOMASS GASIFICATION POWER SAVING AND RATIONAL USE OF ENERGY

8. **Laurențiu CĂLIN, Nicolae LONTIS, Adrian IRIMESCU, Adrian CIOABLA**
”Politehnica” University From Timișoara Faculty Of Mechanical Engineering, Romania
-
- COMPARATIVE STUDY REGARDING THE BEHAVIOUR OF DIFFERENT BIOMASS RESIDUES DURING ANAEROBIC FERMENTATION IN A BIOGAS PILOT PLANT*
9. **Adrian Eugen CIOABLĂ, Ioana IONEL, Gavrilă TRIF TORDAI, Francisc POPESCU**
Politehnica University Of Timisoara, Bv. M. Viteazu, Nr. 1, 300222, Romania
-
- A NEW APPROACH OF PROJECTILE MOTION INSIDE THE BARREL OF ARTILLERY SYSTEMS*
10. **Lucian CIOBANU, Florin SUCIU, Titică VASILE**
Military Technical Academy
-
- IDENTIFICATION AND PREDICTIONS IN THE AUTOMOTIVE CLAIMS' AREA*
11. **Adrian DĂNILĂ*, Titus TOBOȘ****
*"Transilvania" University, Brașov, Romania, ***"Uniqa", Brașov, Romania
-
- PNEUMATIC CONVEYING EQUIPMENT AND SYSTEMS*
12. **Gabriela Simona DUMITRESCU**
“Mihai Eminescu” National College High School, Constanta, Romania
-
- NONLINEAR LATERAL/DIRECTIONAL MOTION IDENTIFICATION USING NEURAL NETWORK FOR IAR 99 AIRCRAFT*
13. **Eugen DUMITRU**
Research And Flight Test Center, Craiova, Romania
-
- THE SIMULATIONS REGARDING THE AIR FLOW PARAMETERS ON THE OUTER SHELL OF A WARM AIR CURRENT VEHICLE*
14. **Daniela FLORESCU, Iulian FLORESCU, Iulian NEDELCU**
Faculty Of Engineering, “Vasile Alecsandri” University Of Bacău
-
- THE METHOD OF DESIGNING FLEXIBLE MANUFACTURING SYSTEMS*
15. **Adriana FOTA, Sorin-Adrian BARABAȘ**
“Transilvania” University, Brasov, Romania
-
- MULTIROTOR, MULTIFUNCTIONAL VTOL FLYING PLATFORM*
16. **Florin FRUNZULICA*, Sorin DINEA***
*Faculty Of Aerospace Engineering, POLITEHNICA University Of Bucharest
-

*NUMERICAL AND PHYSICAL EXPERIMENTS FOR HIGH SPEED
FAILURE MODELS OF COMPOSITES*

17. **Dumitrita GABOR, Ion FUIOREA, Constantin STANCU**

*Straero S.A. Bucuresti, Romania

** Um-02512 Z, Dolj, Romania

*A MATHEMATICAL MODEL OF BULLET MOTION INSIDE BARREL
OF A SMALL CALIBER ARMAMENT SYSTEM*

18. **Ion GROSU, Doru-Adrian GOGA, Titică VASILE**

Military Technical Academy, Bucharest, Romania

*RESULTS OF SCIENTIFIC RESEARCH ON BULLET VELOCITY
MEASUREMENT*

19. **Ion GROSU, Titică VASILE, Doru-Adrian GOGA**

Military Technical Academy, Bucharest, Romania

3.2.2 MECHANICAL ENGINEERING

Sala E50

MODERATORI:

- **Vasile NĂSTĂSESCU**
- **Lavinia GAVRILĂ**
- **Georgică SLĂMNOIU**

*CONSIDERATIONS ON ENERGY RECOVERY FROM SOLID WASTE
IN TIMISOARA*

1. **Ioana IONEL, Luisa Izabel DUNGAN, Laurențiu CALIN, Francisc POPESCU**

”Politehnica” University From Timișoara Faculty Of Mechanical Engineering, Romania

EVAPRED - A CODE FOR FATIGUE ANALYSIS OPTIMIZATION

2. **Dorin LOZICI-BRINZEI, Simion TATARU**

*National Institute For Aerospace Research “Elie Carafoli”, Bucharest, Romania

**Aerospace Consulting, Bucharest, Romania

DIMENSION OF THE CONTACT PATCH AREA

3. **Cristian MINCA**

University “Politehnica” Of Timisoara, Romania

*VARIATION OF ROLLING RESISTANCE WITH LOAD AND
INFLATION PRESSURE*

4. **Cristian MINCA**

University “Politehnica” Of Timisoara, Romania

5. *CONSIDERATIONS ON THE MATHEMATICAL AND NUMERICAL MODELING OF THE LONGITUDINAL VORTICES*
Cristian-Emil MOLDOVEANU, Pamfil SOMOIAG
 Military Technical Academy, Bucharest, Romania
-
6. *SOME EFFECTS OF THE POSTIMPACTING DEBRIS CLOUD ANALYSED BY SPH*
Vasile NASTASESCU, Lavinia GAVRILA
 * Military Technical Academy, Bucharest, Romania
 ** “Henri Coandă” Air Force Academy, Brasov, Romania
-
7. *COST ESTIMATING FOR SHIPS BASED ON STATISTIC METHODS*
Gabriel OANCEA, Viorel UDRESCU, Sorin PERICLEANU, Lidia CALANCEA
 Research Centre For Navy, Constanta, Romania
-
8. *ASPECTS RELATED TO THE THERMIC TRANSFER DURING THE PROCESS OF SUPERFICIAL LAYERS SETTLEMENTS ON TURBINE BLADES.*
Sorin PAVEL
 Ministry Of National Defense. General Staff
-
9. *INTELLIGENT INFORMATION TECHNOLOGIES – TECHNOLOGIES OF THE FUTURE*
Luminița POPA
 “Transilvania” University, Brasov, Romania
-
10. *PRODUCTION DESIGN WITH CONVERGENT ENGINEERING*
Luminița POPA
 “Transilvania” University, Brasov, Romania
-
11. *CONSIDERATIONS REGARDING THE RELIABILITY ANALYSIS OF BRAZE-WELDING PROCESSES FOR ZINC STATE STEEL STRUCTURES*
Ioan RUSU, Aurelian BUZAIANU, Petrica VIZUREANU, Stefan RUSU
 Universitatea Tehnică „Gh. Asachi” Iași, Vrusu2003@Yahoo.Com
 S.C. Metav-CD S.A. București, * Axel Group S.R.L. Iași
-
12. *A HYDROPNEUMATIC STATION'S STRUCTURE ANALYSIS AT EXTERNAL FACTORS ACTION*
Georgică SLAMNOIU, Adrian CIUCULIN, George SURDU, Niculae ALEXE, Gabriel OANCEA, Camelia PASCU
 Research Center For Navy, Constanta, Romania
-
13. *EXPERIMENTAL SAMPLING OF THE GENERATOR MODULE FOR THE CONVERSION OF WAVE ENERGY INTO ELECTRIC ENERGY*
Gheorghe SAMOILESCU1, Dorian MARIN2, Sergiu NICOLAE2, Serghei RADU3, Alina BARBU1
 1“Mircea Cel Bătrân” Naval Academy, Constanta, Romania
 2National Institute For Research, Development, Innovation For Electro-

Techniques, Bucharest, Romania

3Zodiac Crewing Company

THE ANALYSIS OF THE ELECTRO-ENERGETIC SYSTEM OF A SHIP HAVING ELECTRIC PROPULSION

Gheorghe SAMOILESCU1, Adelina SAMOILESCU2, Serghei

14. RADU3, Raluca MATEȘ1

1“Mircea Cel Bătrân” Naval Academy, Constanta, Romania

3 Polytechnic University Of Bucharest, Bucharest, Romania

3Zodiac Crewing Company

NUMERICAL AND EXPERIMENTAL STUDY OF THE LAUNCHING DEVICE OSCILLATIONS DURING THE LAUNCH

15. Pamfil SOMOIAG, Cristian-Emil MOLDOVEANU

Military Technical Academy, Bucharest, Romania

THE UNSTEADY HEAT TRANSFER THROUGH THE BOUNDARY LAYER OF ARTILLERY SYSTEM'S GUN BARREL

16. Florin SUCIU*, Lucian CIOBANU*, Titiță VASILE*

Military Technical Academy, Bucharest, Romania

DRAG COEFICIENT DETERMINATION FOR A 30 MM CALIBER AMMUNITION USING EXPERIMENTAL TESTING AND NUMERICAL SIMULATION

17. George SURDU, Gabriel VLADU, Adrian CIUCULIN, Lidia CALANCEA, Sorin PERICLEANU, Viorel UDRESCU

Research Center For Navy, Constanta, Romania

CONCEPTUAL DESIGN OF THE UNMANNED AERIAL VEHICLE SYSTEMS FOR THE FIREFIGHTER APPLICATIONS

18. Róbert SZABOLCSI

Zrínyi Miklós National Defense University, Budapest, Hungary.

CONCEPTUAL DESIGN OF THE UNMANNED AERIAL VEHICLE SYSTEMS FOR THE POLICE APPLICATIONS

19. Róbert SZABOLCSI

Zrínyi Miklós National Defense University, Budapest, Hungary.

3.3.1 MATERIALS AND TECHNOLOGY

Sala E48

MODERATORI:

➤ **Petrică VIZUREANU**

➤ **Ion DINESCU**

➤ **Vladimir BELLA**

1. RESEARCH ON TERMO-MECHANICAL FATIGUE OF SHAPE

MEMORY ALLOYS CUZNAL

Dragos Cristian ACHITEI, Dan Gelu GALUSCA, Petrica VIZUREANU, Roxana Gabriela STEFANICA

Gheroghe Asachi Technical University, Iasi, Romania

PREPARATION AND CHARACTERIZATION OF ZIRCONIA CERAMICS OBTAINED FROM ULTRAFINE POWDERS

2. **Mariana BARBARESSO**

Military Equipment And Technologies Research Agency, Bucharest, Romania

DETECTION AND EVALUATION OF THE FATIGUE PROPERTIES OF MATERIALS USING IN THE MILITARY TECHNIC

3. **Vladimír BELLA**

Department Of Mechanical Engineering, Academy Of The Armed Forces Of General Milan Rastislav Štefánik, Liptovský Mikuláš, Slovak Republik.

STUDY ON SOLID WAVES THAT APPEARS TO LASER WELDS SURFACES

4. **Remus BOBOESCU**

Politehnica University Timișoara , Romania

MAIN ASPECTS OF THE LASER WELDING PROCESS

5. **Remus BOBOESCU**

Politehnica University Timișoara , Romania

RELIABILITY A NEW FIELD OF STUDY EMERGED FROM THE PRACTICAL NECESSITIES

6. **Mihai Paul CARSTEA**, Adrian IORDACHE*, Rodica POPESCU*, Mihaela MOSNEAG***

*“Transilvania“ University Of Brasov, **“Lafarge” Romcim Bucharest

ENLARGEMENT PROCESSES OF RESISTANCE TO WEAR OF PARTS OF THE MOLD BY HARD CHROME

7. **Mihai Paul CARSTEA**, Adrian IORDACHE*, Rodica POPESCU*, Gabriela STANCIU*, Sergiu SURUGIU***

*“Transilvania“ University Of Brasov, **“Lafarge” Romcim Bucharest

EXPERIMENTAL RESEARCHES REGARDING THE PROPERTIES OF THE METALLIC MATERIALS USED IN MILITARY TECHNIQUE

8. **Ion DINESCU*, Ioana Mihaela DINESCU****

*Air Force Academy „Henri Coanda” Brasov, Romania, ** Bucegi Mountain Training Base Predeal

CHARACTERIZATION TOOL STEELS

9. **Emilian ENE, Adriana ZARA, Bogdan NOVAC, Rita OPRISAN (cas. STOICA), Nicoleta TORODOC**

“Transilvania“ University Of Brasov, Romania

BASIC ELEMENTS TO ESTIMATE THE EXPLOSIVE CHARGE IN EXPLOSIVE FORMING

10.

Victor GHIZDAVU

Military Technical Academy

SPECIAL CLOTHING AND EQUIPMENT FOR THE AIR FORCE OF THE ARMY OF THE CZECH REPUBLIC

11. Petr Harašta, Jiří Dvořák

Faculty Of Economics And Management University Of Defence, Brno, Czech Republic

INFLUENCE OF THE TECHNOLOGICAL PROCESS ON THE RELIABILITY OF TECHNOLOGICAL EQUIPMENTS

12. Adrian IORDACHE*, Rodica POPESCU*, Ioan Gh.CRIȘAN*, Dorin MALE**

*"Transilvania" University Of Brasov, Romania, **"ITM" Miercurea Ciuc

BEHAVIOR IN THE SERVICE OF TECHNOLOGICAL EQUIPMENT OF PLASTIC DEFORMATION

13. Adrian IORDACHE, Rodica POPESCU, Gabriela STANCIU, Sergiu SURUGIU, Mihaela MOȘNEAG

"Transilvania" University Of Brasov, Romania

NUMERICAL DETERMINATION OF ELASTIC PROPERTIES OF A FABRIC COMPOSITE

14. Ciprian LARCO, Amado ȘTEFAN

Military Technical Academy, Bucharest, Romania

SOME ASPECTS OF MICROCRACKS ANALYSIS FOR LAMINATED COMPOSITES

15. Ciprian LARCO, Amado ȘTEFAN, Ștefan MUSTAȚĂ

Military Technical Academy, Bucharest, Romania

ENERGETIC POTENTIAL OF BIOFUELS USED IN SMALL COGENERATION POWER PLANTS

16. Nicolae LONTIS, Ioana IONEL, Calin LAURENTIU, Francis POPESCU

University "POLITEHNICA" From Timisoara

METHODS FOR TESTING MATERIALS EXTREME THERMAL CONDITIONS

17. Victor MANOLIU*, Gheorghe IONESCU*, Constantin VILCU**

*National Institute For Aerospace Research, Bucharest, Romania

**Romanian Research & Development Institute For Gas Turbines, Bucharest, Romania

CONTRIBUTIONS TO THE TESTS PERFORMED ON REINFORCED CONCRETE STRUCTURES WITH COMPOSITE MATERIALS

18. REINFORCED WITH CARBON FIBER

N. George MARES

Gendarme Inspectorate Braila, Romania

LIGHTWEIGHT AGGREGATES FROM FLY ASH FROM THERMAL POWER STATION

19. Alexandra MARMANDIU, Mihaela MOSNEAG,

Rodica POPESCU

“Transilvania“ University Of Brasov

TOXIC ELEMENTS IN COAL AND FLY ASH FROM THERMAL POWER STATIONS

20. **Alexandra MARMANDIU, Mihaela MOSNEAG, Rodica POPESCU**
“Transilvania“ University Of Brasov

3.3.2 MATERIALS AND TECHNOLOGY

Sala E51

MODERATORI:

- **Emilia Adela SALCĂ**
- **Ioan GIACOMELLI**
- **Mihaela SMEADĂ**

1. *NUMERICAL SIMULATIONS OF THE COMBUSTION FOR SOLID ENERGETIC MATERIALS*
Simona MIHAI
Military Technical Academy Bucharest
-
2. *ASPECTS CONCERNING TO OBTAIN SOME COMPOSITES MATERIALS USED IN ARMoured PROTECTION*
Ştefan – Mircea MUSTAŢĂ, Mihai MIHĂILĂ – ANDRES, Ciprian Marius LARCO
Military Technical Academy, Bucharest, Romania
-
3. *VELOCITY DETERMINATION USING LASER SYSTEMS*
Iulian NICOLA, Cornel TODIRICA
Military Equipment And Technology Research Agency – METRA
-
4. *AUTOMATIC VISUAL INSPECTION OF MATTE SURFACES*
Rita-Vasilica OPRISAN (STOICA), Adriana ZARA(URS), Bogdan NOVAC
Transilvania” University, Brasov, Romania
-
5. *AUTOMATIC VISUAL INSPECTION OF SPECULAR SURFACES*
Rita-Vasilica OPRISAN (STOICA), Adriana ZARA(URS), Bogdan NOVAC
Transilvania” University, Brasov, Romania
-
6. *STUDY OF MECHANICAL CHARACTERISTICS AND SURFACE OF*

*GRAY IRON PARTS COATED WITH TITANIUM ELECTRODE USING
IMPULSE DISCHARGE METHOD*

**Manuela Cristina PERJU, Petrică VIZUREANU, Carmen
NEJNERU, Anca Elena LARGEANU**

Technical University “Gheorghe Asachi” Of Iasi-Romania

MATERIALS MANAGEMENT

7. Vasile N. POPA

National Defense University “Carol I” Bucharest, Regional Department
For Defense Resources Management Studies, Brasov, Romania

MATERIALS REQUIREMENTS PLANNING - MRP

8. Vasile N. POPA

National Defense University “Carol I” Bucharest, Regional Department
For Defense Resources Management Studies, Brasov, Romania

*HOW TO CHOOSE THE MATERIALS AND TECHNOLOGY TO HAVE
AN COMPETITIVENESS DIE FORGING PRODUCTION SYSTEMS*

9. Mariana C. RĂȘINĂ

Transilvania University, Braşov, România

COMPARATIVE STUDY ON VENEERS DISCOLORATION

10. Emilia-Adela SALCĂ, Maria CISMARU

“Transilvania” University, Brasov, Romania

REVIEW OVER HAND-CRAFTED WOOD

11. Emilia-Adela SALCĂ, Maria CISMARU

“Transilvania” University, Brasov, Romania

*DEFORMATIONS UNEVENNESS FOR PROCESSING BY PLASTIC
DEFORMATION*

**12. Gabriela STANCIU, Alexandra MARMANDIU,
Mihaela MOSNEAG**

“Transilvania“ University Of Brasov

*RESEARCHES ON ISSUES RELATING TO SURFACES OBTAINED BY
LOADING WELDING*

**13. Gabriela STANCIU, Alexandra MARMANDIU,
Mihaela MOSNEAG**

“Transilvania“ University Of Brasov

*USING ADVANCED METHOD TO DETERMINE THE ACOUSTICAL
PARAMETER OF LIGNOCELLULOSE COMPOSITE MATERIALS*

14. Mariana Domnica STANCIU, Ioan CURTU

“Transilvania” University Of Brasov, Romania

*ON HARDNESS OF A7075 T651 AT DIFFERENT HEAT TREATMENT
STATES*

**15. Roxana-Gabriela ȘTEFĂNICĂ, Petrică VIZUREANU,
Carmen NEJNERU**

The “Gh. Asachi” Technical University Of Iasi

**16. ASPECTS REGARDING THE USE OF GRANULAR MATERIALS FOR
BLAST WAVE MITIGATION**

Florin TÎMPLARU*, **Adrian ROTARIU****, **Marian BUNEA****
*Flight Test Center, Craiova, Romania, **2 Military Technical
Academy, Bucharest, Romania

*ASPECTS OF FACTORS AFFECTING LASER TRANSFORMATION
HARDENING*

- 17. Adriana ZARA, Rita STOICA, Nicoleta TORODOC,
Bogdan NOVAC**

“Transilvania“ University Of Brasov

MAGNETORHEOLOGICAL FLUID

- 18. Costin-Sebastian ZAGONEANU*, Cristian ULEANU****
* Army's Proving Ground, Călărași, Romania, **Romanian Intelligence
Service, Bucharest, Romania
-

SHAPE MEMORY ALLOY

- 19. Costin-Sebastian ZAGONEANU*, Cristian ULEANU****
* Army's Proving Ground, Călărași, Romania, **Romanian Intelligence
Service, Bucharest, Romania
-

PLASMA METAL CUTTING

- 20. Emil ZAMFIR, Mihai CAZACU, Adriana ZARA**
“Transilvania“ University Of Brasov

4.1. MILITARY SCIENCES – OPERATIONAL WARFARE and TACTICS

Sala E31

MODERATORI:

- **Traian ANASTASIEI**
- **Milan SOPOCI**
- **Dumitru TOADER**

František ADAMČÍK*, **Pavel NEČAS****

*QUALITY BASED AVIATION EDUCATION FOCUSED ON SECURITY
FACTORS VERSUS CAPACITY OF THE STUDY PROGRAMMES*

- 1.** *Faculty Of Aeronautics Of Technical University Of Košice, Slovak
Republic, **The Armed Forces Academy Of General Milan Rastislav
Štefánik, Liptovský Mikuláš, Slovak Republic
-

Cornel ARAMĂ*, **Eduard MIHAI****

*INVESTIGATION OF THE POSSIBILITIES TO EXTEND THE
CONCEPT OF STABILITY TO MILITARY AIRCRAFTS*

- 2.** Henri Coandă” Air Force Academy, Brasov, Romania

- Nicolaie BUZATU**
3. *THE ASPECTS CONCERNING MANEUVERE OF MILITARY ASSETS IN OUTER SPACE*
 Training Camp Of Air Force, Capu Midia, Romania
-
- Catalin CIOACA*, Vasile MESAROS****
4. *RISKS ARISING FROM SOCIAL CRISIS ON ROMANIA'S SECURITY*
 *"Henri Coanda" Air Force Academy, Brasov, Romania, **Community Police, Brasov, Romania
-
- Cătălin CIOACA, Marian OANA**
5. *THE EFFECTS OF THE FINANCIAL CRISIS IN TERMS OF SECURITY*
 *"Henri Coanda" Air Force Academy, Brasov, Romania
-
- Ionică CÎRCIU*, Sorin DINEA****
6. *THEORETICAL AND PRACTICAL ASPECTS OF THE COANDĂ EFFECT*
 * "Henri Coanda" Air Force Academy, Braşov, ** University Of Bucharest
-
- Cristian ENE*, Ovidiu MOSOIU*, Marian OANA***
7. *EUROCORPS – A COMMON MULTINATIONAL FORCE*
 "Henri Coandă" Air Force Academy, Brasov, Romania
-
- Ionel HORNEA**
8. *Joint Operation – The Place, The Role And The Missions Of The Air Forces In This Type Of Operation*
-
- Ionel HORNEA**
9. *The Command And Control In Network Centric Warfare*
-
- Batyr KHALMURADOV*, Pavel NEČAS****
10. *VITAL INDEXES OF ORGANISM IN TERMS OF PERSONNEL SAFETY ON BOARD OF THE AIRCRAFT*
 * The National Aviation University, Kiev, Ukraine, ** Armed Forces Academy Of General M. R. Štefánik, Liptovský Mikuláš, Slovak Republic
-
- Niculae MARIN*, Elena MARIN****
11. *THE ROLE AND IMPORTANCE OF UAV WITHIN THE ACTUAL THEATERS OF OPERATIONS*
 * "Aerospace Consulting", Bucharest, Romania, ** "Arcad & Research", Bucharest, Romania
-
- Vasile MESAROS**
12. *CONCEPT, CLASSIFICATION AND ENHANCEMENT FACTORS OF SOCIAL CRISIS*
 Community Police, Brasov, Romania
-
- Vasile MESAROS**
13. *THE SOCIETAL SECURITY CONCEPT IN THE VIEW OF EUROPEAN UNION*
 Community Police, Brasov, Romania

- Iulian PAȚILEA**
 14. *POSSIBLE AGGRESSIVE UNCONVENTIONAL ACTIONS AGAINST ROMANIA*
 Capt Cdr; 86 Airbase-Fetești, Romania
-
- Iulian PAȚILEA**
 15. *POSSIBLE AGGRESSIVE MILITARY ACTIONS AGAINST ROMANIA*
 Capt Cdr; 86 Airbase-Fetești, Romania
-
- Gabriel RĂDUCANU**
 16. *INTERRELATIONSHIPS IN BETWEEN AIR POWER, AIR SECURITY AND AIR SOVEREIGNTY*
 Air Operational Component, Romanian Air Forces

4.2. MILITARY TECHNIQUE

Sala F 10

MODERATORI:

- **Constantin ROTARU**
- **Pavel NEČAS**
- **Ghiță BÂRSAN**

1. *THE OPTIMIZING OF THE TRANSMISSION SYSTEM BY USING PRECESSIONAL TRANSMISSION*
Cornel ARAMĂ*, **Vasile ȘANDRU****
 “Henri Coandă” Air Force Academy, Brasov, Romania
-
2. *CONSIDERATION REGARDING THE SENSOR SUBSYSTEM INFLUENCE IN THE AIR PICTURE GENERATION PROCESS AT COMMAND POSTS LEVEL*
Silviu BĂLUȚĂ*, **Marian PEARSICĂ****, **Corneliu AXENTE***
 * The Military Equipment And Technology Research Agency, Bucharest, Romania, ** „Henri Coandă” Air Force Academy, Brașov, Romania
-
3. *ROTARY WING MICRO AIR VEHICLES SOLUTIONS*
Ionică CÎRCIU*, **Mircea BOȘCOIANU ***
 *“Henri Coanda” Air Force Academy, Brașov
-
4. *TEMPERATURES IN THE BREAK SYSTEM OF IAR-99 LANDING GEAR AFTER LANDING*
Grigore ION
 Ministry Of National Defence
-
5. *MEF ANALYSIS OF HEAT TRANSFER IN IAR-99 BRAKING SYSTEM*
Grigore ION*, **Amado STEFAN****

*Ministry Of National Defence, Romania, ** Military Technical Academy, Bucharest, Romania

PRACTICAL USAGE OF THE A-319CJ AIRCRAFT AT THE CZECH AIR FORCE

6. Miroslav JANOŠEK

University Of Defence, Air Force Department, Brno, Czech Republic

SELECTED ASPECTS OF LIFE CYCLE COST ISSUE FOR DEFENCE AND AVIATION SYSTEMS

7. Ivan KOBLEN , Stanislav SZABO

* Faculty Of Aeronautics Of Technical University, Košice, Slovakia

BATTLE GROUPS, MAIN ELEMENT OF THE EUROPEAN RAPID REACTION FORCE

8. Ovidiu MOȘOIU

“Henri Coanda” Air Force Academy, Brasov, Romania

OPTIMIZING MILITARY LOGISTIC CAPABILITIES BY USING ROBOTIC TECHNOLOGY

9. Silviu Mihai PETRIȘOR, Ghiță BÂRSAN

”Nicolae Bălcescu” Land Forces Academy, Sibiu, România

THE BENEFICIARIES OF SECURITY FIELD EXPERTISE - THE ROMANIAN APPLICATION

10. Carmen POSTELNICU

National Intelligence Academy, Bucarest, Romania

REGARDING THE CERTIFICATION AND APPROVAL OF UNMANNED AERIAL VEHICLES (UAVS)

11. Vasile PRISACARIU *

Vasile ȘANDRU *

Air Force Academy “Henri Coandă” Brașov, Romania

PROJECT RISK MANAGEMENT

**12. Vasile PRISACARIU*
Petre GHERASIMESCU***

*Air Force Academy “Henri Coanda” Brasov, Romania

NUMERICAL PANEL METHOD FOR INCOMPRESSIBLE POTENTIAL FLOW - MAPLE SOFT APPLICATIONS

13. Constantin ROTARU*, Ionică CÎRCIU, Mircea BOȘCOIANU****

*Military Technical Academy, Bucharest, Romania, **”Henri Coandă”

Air Force Academy, Brașov

TASKS OF AIR DEFENCE IN MISSIONS

14. Milan SOPOCI,
