



ROMANIAN ACADEMY OF TECHNICAL SCIENCES

**“CONSTANTIN BRÂNCUȘI”
UNIVERSITY OF
TÂRGU – JIU**

FACULTY OF ENGINEERING

PROGRAM

**NATIONAL SCIENTIFIC
CONFERENCE
WITH INTERNATIONAL PARTICIPATION
“CONFRENG 2018”**

November 23th - 24th 2018

**TÂRGU – JIU
ROMANIA**



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**TÂRGU – JIU
ROMANIA**

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Professor PhD Adrian GORUN, President of "Constantin Brancusi" University Senate

Professor PhD Toader NICOARA, Rector of "Constantin Brancusi" University

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Professor PhD Ioannis TSIAFIS, Aristotle University of Thessaloniki, Greece;

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Assoc. prof. PhD Florin GROFU, University "Constantin Brancusi" Targu-Jiu

Assoc. prof. PhD Mădălina BUNECI, University "Constantin Brancusi" Targu-Jiu

Lecturer PhD Nicoleta MIHUȚ, University "Constantin Brancusi" Targu-Jiu

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Lecturer PhD Maria Nicoleta MIHUȚ

Lecturer PhD Alin STANCIOIU

Lecturer PhD Irina Ramona PECINGINĂ

Lecturer PhD Adriana FOANENE

Lecturer PhD Gheorghe GILCĂ

Lecturer PhD Lucica ANGHELESCU

CONFERENCE SCHEDULE

Friday, November 23th, 2018

8⁰⁰ - 10⁰⁰ - Registration

10⁰⁰ - 11⁰⁰ - Opening ceremony (Sala A016)

- Plenary lecture: “***Finanțarea prosumatorilor (producători și, concomitent, consumatori)***”

Dr. ing. Mihai - Marius VORONCA

Director executiv al Fondului Român pentru Eficiența Energiei

11⁰⁰ - 13³⁰ - Proceedings in working groups

13⁴⁵ - 15¹⁵ - Lunch

16⁰⁰ - 19⁰⁰ - Proceedings in working groups

20⁰⁰ – 22⁰⁰ - Dinner and social program

Saturday, November 24th, 2018

9⁰⁰ - 10⁰⁰ - Visit in research laboratories of the faculty

10⁰⁰ - 14⁰⁰ - Program for visiting the touristic objectives and sites of Targu-Jiu city.

THE SECTIONS OF THE CONFERENCE

1. Control system, electronics, information technology and cyber security
2. Environmental engineering and sustainable development
3. Power and electrical engineering
4. Mechanical engineering, materials and manufacturing systems
5. Quality management

Section 1
CONTROL SYSTEM, ELECTRONICS, INFORMATION TECHNOLOGY AND
CYBER SECURITY

Conference room: A015

Date 23.11.2018

Hours : 11⁰⁰ - 13³⁰

Chairmen: Assoc. prof. PhD. Grofu Florin

Co-chairmen: Assoc. prof. PhD. Buneci Madalina

Tehnic secretariat: Lecturer PhD. Gilca Gheorghe

1. DC BRUSHLESS MOTOR CONTROL SYSTEM

Grofu Florin, "Constantin Brâncuși" University from Târgu Jiu, ROMANIA

2. BRING YOUR OWN DEVICE (BYOD) VS. CHOOSE YOUR OWN DEVICE (CYOD)

Ștefan IOVAN, Universitatea de Vest, Timișoara, ROMÂNIA

Cristian IVĂNUȘ, Academia de Studii Economice, București, ROMÂNIA

3. FROM THE TRADITIONAL ERP TO CLOUD-BASED ERP

Cristian IVĂNUȘ, Academia de Studii Economice, București, ROMÂNIA

Alina-Anabela IOVAN, Informatica Feroviară SA, București, ROMÂNIA

Ștefan IOVAN, Universitatea de Vest, Timișoara, ROMÂNIA

4. PREDICTIVE ANALYSIS IN THE BIG DATA ERA

Ramona MARGE, Universitatea din Oradea, ROMÂNIA

Ștefan IOVAN, Universitatea de Vest, Timișoara, ROMÂNIA

Alina-Anabela IOVAN, Informatica Feroviară SA, București, ROMÂNIA

5. FUZZY ACTIONS AS FUZZY GROUPOIDS

Mădălina Roxana Buneci, "Constantin Brâncuși" University from Târgu Jiu, ROMANIA

6. APPROXIMATING SOLUTIONS FOR A CLASS OF STOCHASTIC FRACTIONAL LINEAR QUADRATIC OPTIMAL CONTROL PROBLEMS

Ungureanu Viorica Mariela, "Constantin Brâncuși" University from Târgu Jiu, ROMANIA

7. MATLAB SOLUTIONS FOR DISCRETE-TIME RICCATI EQUATIONS OF STOCHASTIC FRACTIONAL LINEAR QUADRATIC OPTIMAL CONTROL AND APPLICATIONS

Ungureanu Viorica Mariela, "Constantin Brâncuși" University from Târgu Jiu, ROMANIA

8. MULTIPLICATION OPERATION ON INTUITIONISTIC FUZZY NUMBERS

Iuliana Carmen Bărbăcioru, "Constantin Brâncuși" University from Târgu Jiu, ROMANIA

9. SMART HOME SYSTEM APPLICATION BASED ON INTERNET OF THINGS

Gilcă Gheorghe, "Constantin Brâncuși" University from Târgu Jiu, ROMANIA

10. THE USE THE GESTURES SENSOR FOR A BIOMIMETIC STRUCTURE

Ionescu Marian, "Constantin Brâncuși" University from Târgu Jiu, ROMANIA

Borcosi Ilie, "Constantin Brâncuși" University from Târgu Jiu, ROMANIA

Section 2
ENVIRONMENTAL ENGINEERING AND SUSTAINABLE DEVELOPMENT

Conference room: A014

Date 23.11.2018

Hours : 11⁰⁰ - 13³⁰

Chairmen: Prof. PhD. Racoceanu Cristinel

Co-chairmen: Assoc. prof. PhD. Popa Roxana

Tehnicl secretariat: Lecturer PhD. Schiopu Emil Catalin

1. CORPORATE GOVERNANCE AND SOCIAL RESPONSIBILITY IN "FIGHT" AGAINST ECOLOGICAL CRIMINALITY

Rade Biočanin, International University of Travnik, Travnik, BiH

Muhamed Sarvan, International University of Travnik, Travnik, BiH

Ana Prolović, Company JP Srbijašume, SG Toplica Kursumlija, Serbia

2. STUDY ON INFLUENCE OF NOISE DISPERSION ON AIR QUALITY IN THE AREA OF ROVINARI THERMAL POWER PLANT

Cristinel Racoceanu, "Constantin Brâncuși" University of Târgu Jiu

3. STUDY ON THE REDUCTION OF POLLUTING EMISSIONS THROUGH COMBUSTION BIOMASS IN THE THERMAL BOILERS

Cristinel Racoceanu, "Constantin Brâncuși" University of Târgu Jiu

4. CONTAMINATION OF FOOD WITH Pb

Popa Roxana – Gabriela, "Constantin Brâncuși" University from Târgu Jiu, ROMANIA

Pecingină Irina – Ramona, "Constantin Brâncuși" University from Târgu Jiu, ROMANIA

5. INDICATOR PLANTS OF FERTILITY AND SOIL ACIDITY

Popa Roxana – Gabriela, "Constantin Brâncuși" University from Târgu Jiu, ROMANIA

Pecingină Irina – Ramona, "Constantin Brâncuși" University from Târgu Jiu, ROMANIA

6. STUDY ON THE PHONIC POLLUTION DUE TO MINING ACTIVITIES IN LIGNIT CAREERS

Mihuț Nicoleta-Maria, University Constantin Brancusi of Targu Jiu

Tatar Adina Milena, University Constantin Brancusi of Targu Jiu

7. ASSESSES THE CONTENT OF HEAVY METALS IN THE LOCAL ENVIRONMENT CAUSED BY AN ASH DEPOSIT

Nica-Badea Delia, "Constantin Brancusi" University of Targu-Jiu, Romania

Bălăcescu Aniela., "Constantin Brancusi" University of Targu-Jiu, Romania

8. INVASIVE PLANTS FROM ROMANIA WITH IMPACT ON BIOLOGICAL BIODIVERSITY

Pecingină Irina-Ramona, "Constantin Brâncuși" University from Târgu Jiu, ROMANIA

Conference room: A014
Date 23.11.2018
Hours : 16⁰⁰ - 19⁰⁰

Chairmen: Prof. PhD. Racoceanu Cristinel
Co-chairmen: Assoc. prof. PhD. Popa Roxana
Tehchnical secretariat: Lecturer PhD. Schiopu Emil Catalin

9. COMPLEXITY AND IMPORTANCE OF VIRGIN FOREST

Pecingină Irina-Ramona, "Constantin Brâncuși" University from Târgu Jiu, ROMANIA

10. A SCANNED GEOREFERENCING MAPS USING GLOBAL MAPPER 15 SOFTWARE

Șchiopu Emil Cătălin, "Constantin Brâncuși" University from Târgu Jiu, ROMANIA

11. EVALUATION OF THE EMISSIONS OF HCI AND THE LEVEL OF NOISE FROM AN INSTALLATION OF THE METAL COVER

Șchiopu Emil Cătălin, "Constantin Brâncuși" University from Târgu Jiu, ROMANIA

12. POLLUTION OF THE FOREST AND AGRICULTURAL SOILS WITH HEAVY METALS

Ramona Violeta Cazalbașu, "Constantin Brâncuși" University from Târgu Jiu, ROMANIA

13. THE IMPACT OF THE WIND POWER STATIONS ON THE AVIFAUNEI THE SITES OF COMMUNITY IMPORTANCE

Ramona Violeta Cazalbașu, "Constantin Brâncuși" University from Târgu Jiu, ROMANIA

14. NON-POLLUTING POWER SUPPLY SOLUTIONS FOR HOMES

Tătar Adina, "Constantin Brâncuși" University of Târgu-Jiu, ROMÂNIA
Mihuț Nicoleta, "Constantin Brâncuși" University of Târgu-Jiu, ROMÂNIA

Sectiunea 5
QUALITY MANAGEMENT

1. THE EMERGENCE OF INDIVIDUAL ENTREPRENEURSHIP BASED ON ABILITIES - COMPETENCIES RELATIONSHIP

Boncea Amelia Georgiana, "Constantin Brâncuși" University from Târgu Jiu, ROMANIA

2. MANAGEMENT OF CHANGE IN ORGANIZATIONAL BEHAVIOR

Amelia Georgiana Boncea, "Constantin Brâncuși" University of Târgu Jiu

3. DATA ANALYSIS IN THE BIG DATA ERA

Stefan Iovan, Universitatea de Vest, Timișoara, ROMÂNIA
Ramona Marge, Universitatea din Oradea, ROMÂNIA

4. ASPECTS ON THE USE OF MODERN TECHNOLOGIES IN THE PROCESS OF THE QUALITY OF THE EDUCATIONAL SYSTEM

Popescu Cristinel, University „Constantin Brâncuși” of Tg-Jiu

Sectiunea 3

POWER AND ELECTRICAL ENGINEERING

Conference room: A012

Date 23.11.2018

Hours : 11⁰⁰ - 13³⁰

Chairmen: Lecturer PhD. Cornel Hațiegan

Co-chairmen: Assoc. prof. PhD. Popescu Cristinel

Tehnical secretariat: Lecturer Ph.D. Foanene Adriana

1. INFLUENCE OF ELECTRICAL CONDUCTIVITY AND TEMPERATURE IN A MICROBIAL FUEL CELL FOR TREATMENT OF MINING WASTE WATER

Ani Stefanova, University of Mining and Geology, Sofia, BULGARIA
Anatoliy Angelov, University of Mining and Geology, Sofia, BULGARIA
Svetlana Bratkova, University of Mining and Geology, Sofia, BULGARIA
Petya Genova, University of Mining and Geology, Sofia, BULGARIA
Katerina Nikolova, University of Mining and Geology, Sofia, BULGARIA

2. RESPONSE OF A STRUCTURE ISOLATED BY FRICTION PENDULUMS WITH DIFFERENT RADII

Gillich Gilbert-Rainer, University "Eftimie Murgu" of Resita, Resita, ROMANIA
Nedelcu Dorian, University "Eftimie Murgu" of Resita, Resita, ROMANIA
Malin Tatian-Cristian, University "Eftimie Murgu" of Resita, Resita, ROMANIA
Gillich Nicoleta, University "Eftimie Murgu" of Resita, Resita, ROMANIA
Iancu Vasile, University "Eftimie Murgu" of Resita, Resita, ROMANIA

3. QUALITY STUDY ON ORDERED THREE-PHASE RECTIFIERS

Eugen Răduca, "Eftimie Murgu" University, Reșița, Romania
Mihaela Molnar, "Eftimie Murgu" University, Reșița, Romania
Cristinel Popescu, "Constantin Brâncuși" University, Târgu Jiu, Romania
Cornel Hațiegan, "Eftimie Murgu" University, Reșița, Romania

4. DEVELOPMENT OF ELECTRICITY PRODUCTION IN EUROPE

Josef Timmerberg, Jade University of Applied Sciences, Wilhelmshaven, Germany
Adriana Foanene, "Constantin Brâncuși" University of Târgu Jiu, Romania
Folker Renken, Jade University of Applied Sciences, Wilhelmshaven, Germany
Daniela Cîrțină, "Constantin Brâncuși" University of Târgu Jiu, Romania
Georgi Tsonev Velev, Technical University of Gabrovo, Bulgaria
Krasimir Marinov Ivanov, Technical University of Gabrovo, Bulgaria

5. STUDY OF AUTOMATED PRESSURE TURBO SYSTEM IN DINAMIC MODE

Krasimir Hristov Ohrmandzhiev, Technical University of Gabrovo, Gabrovo, BG
Tsvetozar Georgiev Petkov, Technical University of Gabrovo, Gabrovo, BG
Georgi Tsonev Velev, Technical University of Gabrovo, Gabrovo, BULGARIA
Adriana Foanene, University „Constantin Brâncuși” in Targu Jiu, ROMANIA

6. GROUNDING RESISTANCE MEASUREMENTS AND CONTROL FOR WIND GENERATORS

Georgi Tsonev Velev, Technical University of Gabrovo, Gabrovo, BULGARIA
Krasimir Marinov Ivanov, Technical University of Gabrovo, Gabrovo, BULGARIA
Petar Kolev Petrov, Technical University of Gabrovo, Gabrovo, BULGARIA
Adriana Foanene, University „Constantin Brâncuși” in Targu Jiu, ROMANIA

7. THERMOSTAT MODEL WITH ARDUINO UNO BOARD FOR CONTROLLING A COOLING SYSTEM

Stroia M. D., „Eftimie Murgu” University of Reșița, România

Derbac D., „Eftimie Murgu” University of Reșița, România

Hațiegan C., „Eftimie Murgu” University of Reșița, România

Cîndea L., „Eftimie Murgu” University of Reșița, România

8. COAL ASH – A POTENTIAL SOURCE FOR OTHERS INDUSTRY

Popescu Luminița Georgeta, “Constantin Brâncuși” University from Târgu Jiu, ROMANIA

9. POSSIBILITIES OF RECYCLING BOTTOM ASH WITH HIGH CONTENT OF ORGANIC MATTER RESULTING FROM INCOMPLETE COAL COMBUSTION IN COAL-FIRED POWER PLANTS

Bogdan Diaconu, University “Constantin Brâncuși” of Tg-Jiu, ROMANIA

Lucica Anghelescu, University “Constantin Brâncuși” of Tg-Jiu, ROMANIA

10. CHARACTERISTICS OF FLOW IN GAS EJECTORS AND PRIMARY NOZZLE GEOMETRY EFFECTS

Bogdan Diaconu, University “Constantin Brâncuși” of Tg-Jiu, ROMANIA

Conference room: A012

Date 23.11.2018

Hours : 16⁰⁰ - 19⁰⁰

Chairmen: Assoc. prof. PhD. Krasimir Hristov Ohrmandzhiev

Co-chairmen: Assoc. prof. PhD. Popescu Cristinel

Tehchnical secretariat: Lecturer Ph.D. Foanene Adriana

11. INFLUENCE OF TILT ANGLE ON PV ELECTRICITY GENERATION IN TARGU JIU AREA. PART 1 - MAIN PARAMETERS

Mihai Cruceru, University “Constantin Brancusi” of Targu Jiu, ROMANIA

12. INFLUENCE OF TILT ANGLE ON PV ELECTRICITY GENERATION IN TARGU JIU AREA. PART 2 - RESULTS AND DISCUSSION

Mihai Cruceru, University “Constantin Brancusi” of Targu Jiu, ROMANIA

13. EXPERT INVESTIGATION ON THE CAUSES FOR OCCURENCE OF A BIG FIRE IN AN ADMINISTRATIVE BUILDING

Evtim Kartselin, University of Mining and Geology “St. Ivan Rilski”, Sofia, BG

Georgi Tsonev Velevev, Technical University of Gabrovo, Gabrovo, BULGARIA

Petar Kolev Petrov, Technical University of Gabrovo, Gabrovo, BULGARIA

Krasimir Marinov Ivanov, Technical University of Gabrovo, Gabrovo, BULGARIA

Nikolay Stoyanov Minekov, Assarel Medet JSC, Bulgaria

Angel Zabchev, University of Mining and Geology “St. Ivan Rilski”, Sofia, BG

14. ASPECTS REGARDING THE LOSSES IN THE MAGNETIC CIRCUIT OF ELECTRICAL TRANSFORMERS

Popescu Cristinel , University „Constantin Brâncuși” of Tg-Jiu

15. THE ADAPTABILITY OF USING A COGENERATION INSTALLATION WHEN ACTUATING AN ELEVATOR

Carmen Elisabeta Radu, *University POLITEHNICA of Bucharest, Romania*
Edward Răschitor, *University POLITEHNICA of Bucharest, Romania*
Iosif Tempea, *University POLITEHNICA of Bucharest*

16. IMPACT STUDIES ON THE OVER-GROUND PARKING LOTS ABOVE DAMBOVITA RIVER

Edward Răschitor, *University POLITEHNICA of Bucharest, ROMANIA*,
Carmen Elisabeta Radu, *University POLITEHNICA of Bucharest, ROMANIA*
Iosif Tempea, *University POLITEHNICA of Bucharest, ROMANIA*

17. STUDIES AND RESEARCH REGARDING THE DESIGN OF THE MECHANISMS FOR OVER-GROUND MULTIFUNCTIONAL PARKING LOTS. THE CONSTRUCTIVE DESCRIPTION AND SEISMIC PROTECTION OF A PARKING LOT ABOVE DAMBOVITA RIVER

Edward Răschitor, *Politehnica University of Bucharest*
Carmen Elisabeta Radu, *Politehnica University of Bucharest*
Iosif Tempea, *Politehnica University of Bucharest*

18. CONSIDERATIONS ON THE HYDROPOWER POTENTIAL CERNA – JIU

Cristina Ionici, *University “Constantin Brâncuși” , Tg-Jiu*

19. DEVELOPMENT OF WIND POWER IN EUROPE

Adriana Foanene, *“Constantin Brâncuși” University of Târgu Jiu, Romania*
Georgi Tsonev Velez, *Technical University of Gabrovo, Bulgaria*
Josef Timmerberg, *Jade University of Applied Sciences, Wilhelmshaven, Germany*
Krasimir Hristov Ohrmandzhiev, *Technical University of Gabrovo, Bulgaria*
Folker Renken, *Jade University of Applied Sciences, Wilhelmshaven, Germany*

20. REDUCTION OF NO_x BY MEANS OF UREA INJECTION - ROVINARI POWER PLANT CASE

Lucica Anghelescu, *“Constantin Brâncuși” University from Târgu Jiu, ROMANIA*

21. APPLICATION OF FLUE GAS WET DESULFURIZATION METHOD AT ROVINARI COAL-FIRED POWER PLANT – PROCESS PERFORMANCE

Lucica Anghelescu, *“Constantin Brâncuși” University from Târgu Jiu, ROMANIA*
Bogdan Diaconu, *“Constantin Brâncuși” University from Târgu Jiu, ROMANIA*

22. SCREW COMPRESSORS USED FOR THE PRODUCTION OF COMPRESSED AIR INSIDE A COAL MINE

Lecturer Ph.D. Adriana Zamora, *University of Petroșani, ROMANIA*
Lecturer Ph.D. Sorina Stanila, *University of Petroșani, ROMANIA*

Sectiunea 4
MECHANICAL ENGINEERING, MATERIALS
AND MANUFACTURING SYSTEMS

Conference room: A011

Date 23.11.2018

Hours : 11⁰⁰ - 13³⁰

Chairmen: Professor PhD. Cîrțină Liviu

Co-chairmen: Professor PhD. Ghimiși Ștefan

Tehnical secretariat: Lecturer PhD. Nioață Alin

1. GENERATING ELLIPSES BY USING MECHANISMS RELYING ON SIMPLE GEOMETRICAL ASPECTS

Iulian Popescu, University of Craiova, Faculty of Mechanics, ROMANIA
Alina Elena Romanescu, University of Craiova, Faculty of Mechanics, ROMANIA
Ludmila Sass, University of Craiova, Faculty of Mechanics, ROMANIA

2. ROBOTS USED IN AUXILIARY OPERATIONS OF ELECTRIC ARC STEEL FURNACES

Constantin Brezeanu, Silcotub S. A. (Tenaris Group) Călărași
Mariana Trofimescu, "Dinu Lipatti" High School, Bucharest
Gabriela Firouzi, "Gh. Asachi" High School, Bucharest

3. NEW KINEMATICS SCHEME OF THE MECHANISMS FOR THE POWER SWITCHER WITH V EXTINGUISHING CHAMBERS

Ovidiu ANTONESCU, Politehnica "University of Bucharest
Mariana TROFIMESCU, "Dinu Lipatti" High School, Bucharest
Păun ANTONESCU, Politehnica "University of Bucharest

4. AN ALGORITHM FOR OPTIMIZING PREHEATING TEMPERATURE OF HIGH TEMPERATURE RESISTIVE STEEL

Cîndea L., „Eftimie Murgu” University of Reșița, România
Stroia M. D., „Eftimie Murgu” University of Reșița, România
Terfăloagă I. M., „Eftimie Murgu” University of Reșița, România

5. ASPECTS REGARDING EXPERTISE OF THE ORIZONTALIZATION DEVICE OF COMMAND CABINE OF THE COAL MINING MACHINE

Cîrțină Liviu Marius, “Constantin Brâncuși” University of Tg-Jiu, ROMANIA
Stăncioiu A., Constantin Brâncuși” University of Tg-Jiu, ROMANIA
Rădulescu C., Constantin Brâncuși” University of Tg-Jiu, ROMANIA

6. ASPECTS REGARDING EXPERTISE THE MECHANISM OF RIDING OF ELINDE FROM THE COAL EXTRACTION MACHINE

Cîrțină Liviu Marius, “Constantin Brâncuși” University of Tg-Jiu, ROMANIA
Rădulescu C., Constantin Brâncuși” University of Tg-Jiu, ROMANIA
Stăncioiu A., Constantin Brâncuși” University of Tg-Jiu, ROMANIA

7. THE PROCESSING OF MINIATURAL REVOLUTION SURFACES USING WEDM

Călin Deneș, Lucian Blaga University of Sibiu, Sibiu, ROMANIA

8. AN INVENTIVE METHOD FOR IMPROVING THE PRECISION OF THE CYLINDRICAL PERFORATIONS' SHAPE USING WEDM

Călin Deneș, Lucian Blaga University of Sibiu, Sibiu, ROMANIA

9. THE INFLUENCE OF THE FUNCTIONAL GEOMETRY OF THE CUTTING TOOL ON THE MAIN CUTTING FORCE IN THE STRING OPERATION

D. Dobrotă, *Lucian Blaga University of Sibiu, Sibiu, Romania*
M. Tomescu, *Lucian Blaga University of Sibiu, Sibiu, Romania*

10. RESEARCH ON ENERGY DISSIPATED IN A CYCLE OF ELASTIC ADHESION

Ștefan Ghimiși, *Prof.dr.eng., Constantin Brâncuși University of Târgu Jiu*

11. USING FINITE ELEMENT METHOD TO DETERMIN EIGENMODES OF TWO L- SHAPED PLATENS ASSEMBLY EMBEDDED ON A SURFACE. PART I

Hațiegan C., *„Eftimie Murgu” University of Reșița, România*
Stroia M. D., *„Eftimie Murgu” University of Reșița, România*
Racoceanu C., *“Constantin Brâncuși” University of Târgu Jiu*
Iancu V., *„Eftimie Murgu” University of Reșița, România*

12. USING FINITE ELEMENT METHOD TO DETERMIN EIGENFREQUENCIES OF TWO L- SHAPED PLATENS ASSEMBLY EMBEDDED ON A SURFACE. PART II

Hațiegan C., *„Eftimie Murgu” University of Reșița, România*
Stroia M. D., *„Eftimie Murgu” University of Reșița, România*
Popescu C., *“Constantin Brâncuși” University of Târgu Jiu*
Răduca E., *„Eftimie Murgu” University of Reșița, România*
Racoceanu C., *“Constantin Brâncuși” University of Târgu Jiu*

13. APPLICATIONS OF DIMENSIONAL ANALYSIS AND SIMILARITY THEORY IN HYDRAULICS

Florin CIOFU, *Engineering Faculty, “Lucian Blaga” University of Sibiu*

14. EXPERIMENTAL STUDY ON THE FLUID FLOW IN THE CONDUCTS

Florin CIOFU, *Engineering Faculty, “Lucian Blaga” University of Sibiu*

15. CONSIDERATIONS ON THE STRUCTURE OF MS-BASED IRON POWDER

Cristina Ionici, *University “Constantin Brâncuși”, Tg-Jiu, Romania*

Conference room: A011

Date 23.11.2018

Hours : 16⁰⁰ - 19⁰⁰

Chairmen: Professor PhD. Cîrtînă Liviu

Co-chairmen: Professor PhD. Iancu Catalin

Tehnical secretariat: Lecturer PhD. Nioață Alin

16. ABOUT 3D PRINTING FILE FORMATS

Cătălin Iancu, *“Constantin Brâncuși” University of Târgu Jiu*

17. SYNTHESIS OF A MECHANISM THAT GENERATES THE "GLISETTE" CURVE

Mirela Cherciu, *University of Craiova, ROMANIA*
Iulian Popescu, *University of Craiova, ROMANIA*

18. STRUCTURAL PROBLEMS IN MECHANISMS THAT GENERATES POLYSOMAL CURVES

Liliana Luca, *“Constantin Brâncuși” University of Târgu Jiu*
Iulian Popescu, *University of Craiova, ROMANIA*

19. USE OF EXPERT SYSTEM FOR THE PROJECTION OF MECHANISMS AND SYSTEMS OF ELECTRIC OPERATION

Anca-Olimpia Mosneaga (TALAAT-HAMID), *„Sfantul Sava” National College, Bucharest, Romania*
Iosif Tempea, *POLITEHNICA University, Bucharest, Romania*

- 20. USE OF DATABASE FOR PROJECTION OF DIRECT CURRENT ENGINES FOR MECHANISM DRIVING**
Anca-Olimpia Mosneaga (TALAAT-HAMID), „Sfantul Sava” National College, Bucharest, Romania
Iosif Tempea, POLITEHNICA University, Bucharest, Romania
- 21. DETERMINING THE PARAMETERS OF A HEAT EXCHANGER INSTALLATION USING TRANSFORMER OIL**
Stăncuț Eugenia Adriana, *University of Craiova –Romania*
Cernăianu Corina, *University of Craiova –Romania*
- 22. BEHAVIOR OF CEMENT MORTARS SAMPLES**
Minodora Pasăre, “*Constantin Brâncuși*” *University of Tîrgu-Jiu, ROMANIA*
- 23. FEM STRUCTURAL ANALYSIS OF A HELICAL DRILL BY USING CATIA**
Nioață Alin, “*Constantin Brâncuși*” *University of Târgu-Jiu, Romania*
- 24. STUDIES ON OPTIMIZING LIFTING MECHANISMS. EVALUATING THE BEHAVIOR OF A LIFTING MECHANISM AT AN ELEVATOR DURING AN EARTHQUAKE**
Carmen Elisabeta Radu, *University POLITEHNICA of Bucharest, Romania*
Edward Raschitor, *University POLITEHNICA of Bucharest, Romania*
Iosif Tempea, *University POLITEHNICA of Bucharest*
- 25. ASPECTS REGARDING THE EXPERTISE OF LIFTING-DESCENT MECHANISM PLATFORM OF A COAL EXTRACTION MACHINE – PART I**
Rădulescu C., *University „Constantin Brâncuși, from Târgu-Jiu, ROMÂNIA*
Cîrțînă L.M., *University „Constantin Brâncuși, from Târgu-Jiu, ROMÂNIA*
Stăncioiu A., *University „Constantin Brâncuși, from Târgu-Jiu, ROMÂNIA*
- 26. ASPECTS REGARDING THE EXPERTISE OF LIFTING-DESCENT MECHANISM PLATFORM OF A COAL EXTRACTION MACHINE – PART II**
Rădulescu C., *University „Constantin Brâncuși, from Târgu-Jiu, ROMÂNIA*
Cîrțînă L.M., *University „Constantin Brâncuși, from Târgu-Jiu, ROMÂNIA*
Stăncioiu A., *University „Constantin Brâncuși, from Târgu-Jiu, ROMÂNIA*
- 27. ASPECTS RELATING TO EXPERTISE OF THE MAST COAL MINING MACHINES – THE FIRST PART**
Stăncioiu A., *Constantin Brâncuși” University of Tg-Jiu, ROMANIA*
Rădulescu C., *Constantin Brâncuși” University of Tg-Jiu, ROMANIA*
Cîrțînă Liviu Marius, PhD “*Constantin Brâncuși*” *University of Tg-Jiu, ROMANIA*
- 28. ASPECTS RELATING TO EXPERTISE OF THE MAST COAL MINING MACHINES – THE SECOND PART**
Stăncioiu A., *University „Constantin Brâncuși, from Târgu-Jiu, ROMÂNIA*
Cîrțînă L.M., *University „Constantin Brâncuși, from Târgu-Jiu, ROMÂNIA*
Rădulescu C., *University „Constantin Brâncuși, from Târgu-Jiu, ROMÂNIA*
- 29. THE 3D MODELLING OF THE TRANSMISSION OF A GEAR BOX WITH FOUR SPEEDS**
Iosif Dumitrescu, *University of Petroșani, Petroșani, ROMANIA*
Vilhelm Itu, *University of Petroșani, Petroșani, ROMANIA*
- 30. TESTING IN A PRESS THE FRANGIBLE SIGNAL LIGHT HOLDER FOR AIRPORTS**
Iosif Dumitrescu, *University of Petroșani, Petroșani, ROMANIA*
Razvan - Bogdan Itu, *University of Petroșani, Petroșani, ROMANIA*
- 31. MATHEMATICAL MODEL OF HIGH-PERFORMANCE DIAMOND GRINDING**
Feodor Novikov, *Simon Kuznets Kharkov Nat. Univ. of Economics, Kharkov, Ukraine*
Vladimir Polyansky, *Empire of Metals Ltd., Kharkov, Ukraine*
Yury Gutsalenko, *Nat. Tech. Univ. “Kharkov Polytech. Inst.”, Kharkov, Ukraine*

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