

“IMT Oradea” - 2017



PROGRAM of CONFERENCE

May 25th – 27th
Felix SPA, Oradea
ROMÂNIA

PROGRAM of CONFERENCE

Thursday, 25th May 2017

10.00-13.00 Registration

13.00-14.00 Lunch

15.00-19.00 Plenary Session

20.00-24.00 Dinner

Friday, 26th May 2017

9.00-14.00 Works on Sections

14.00-15.00 Lunch

15.00-19.00 Works on Sections

PLENUM

Thursday, May 25th, 2017

Hotel President, Room 1

Chairman *prof.dr.ing.habil. Tiberiu VESSELENYI*

15⁰⁰-15¹⁰

OPENING OF THE CONFERENCE

Alexandru-Viorel PELE

University of Oradea

15¹⁰-15³⁰

A FUZZY QUALITY FUNCTION DEPLOYMENT APPROACH TO IMPROVE A COMPONENT OF A SUPERVISORY CONTROL AND DATA ACQUISITION SYSTEM DEEP DRILLING MILLING CENTER "NARWHAL-1500" WITH 8 CNC AXES

Ciprian CRISTEA, Ciprian SAŞA, Maria CRISTEA

Technical University of Cluj- Napoca, Romania

15³⁰-15⁵⁰

MULTIOBJECTIVE OPTIMIZATION OF PLANAR TRUSS GIRDER

Imre TIMÁR, Pál HORVÁTH;

University of Pannonia- Veszprém;

15⁵⁰-16¹⁰

PHYSICAL SYSTEMS IN MECHATRONIC RESEARCH CENTRE

Timotei István ERDEI, Zsolt MOLNÁR, Nwachukwu C. OBINNA, Géza HUSI-CYBER

University of Debrecen;

16¹⁰-16³⁰

QUADCOPTER THRUST OPTIMIZATION WITH DUCTED-PROPELLER

Endrowednes KUANTAMA, Radu TARCA

University of Oradea;

16³⁰-17⁰⁰

BREAK

17⁰⁰-17²⁰

AUTOMATED PRODUCTION BASED MODEL OF FLEXIBLE CELL USING TIMED COLORED PETRI NETS

SANJIB KUMAR SAREN, FLORIN BLAGA, TIBERIU VESSELENYI

University of Oradea

17²⁰-17⁴⁰

3D MODELING AND FEM ANALYSIS FOR SOLAR PANEL MOUNTING SYSTEM ON A HOUSE ROOF

CORNEL CĂTĂLIN GAVRILĂ, RADU VELICU, MIHAI -TIBERIU LATEŞ-

Transilvania University of Brasov

17⁴⁰-18⁰⁰

TEST STATION FOR REED SENSORS AND INDUCTIVE PROXIMITY SWITCHES

Viktória ÁCS, János TÓTH
University of Debrecen;

18⁰⁰-18⁴⁰

A NOVEL DESIGN OF AN AIR-CUSHION VEHICLE AND ITS IMPLEMENTATION

ZSOLT MOLNÁR, TIMOTEI ISTVÁN ERDEI, NWACHUKWU C. OBINNA, GÉZA HUSI
University of Debrecen

20⁰⁰-24⁰⁰

DINNER

SECTION 1

MECHANICS

Friday, May 26th, 2017
Hotel President, Room 1

Chairman *prof.dr.ing. Alexandru RUS*

9²⁰-9⁴⁰

Ion BULAC, Jan-Cristian GRIGORE

MATHEMATICAL MODEL FOR CALCULATING VIBRATION INHERENT FREQUENCIES AT BENDING FROM TWO-SHAFTS TRANSMISSION

9⁴⁰-10⁰⁰

Jan-Cristian GRIGORE, Ion BULAC

ALGORITHM FOR THE CALCULATION OF VIBRATION INHERENT FREQUENCIES BENDING FROM TWO-SHAFTS TRANSMISSION

10⁰⁰-10²⁰

Radu PAPUC, Cătălin GAVRILĂ, Mihai– Tiberiu LATEȘ

THE STUDY OF CHAIN LINK-GUIDE CONTACT IN RELATIVE ALTERNATIVE TRANSLATIONAL MOTION

10²⁰-10⁴⁰

Marius Beniamin FAZECAS, Ioan STROE

NUMERICAL SIMULATION OF THE OPERATION OF SAFETY CLUTCHES

10⁴⁰-11⁰⁰

Ana-Maria POPA, Ionel SERBAN, Corneliu DRUGA

HEARING AIDS TESTED WITH AUDIOMETER

11⁰⁰-11²⁰

BREAK

11²⁰-11⁴⁰

Ana-Maria POPA, Corneliu DRUGĂ, Ionel ȘERBAN

THE DESIGN AND IMPLEMENTATION OF AN INTELLIGENT AUDIOMETER

11⁴⁰-12⁰⁰

Géza LÁMER

ON THE AXIOMS OF THE FORCES IN THE MECHANICS OF RIGID BODIES

12⁰⁰-12²⁰

Ion BULAC

**MATHEMATICAL MODEL FOR CALCULATING VIBRATION INHERENT
FREQUENCIES AT BENDING FROM TWO-SHAFTS TRANSMISSION**

13⁰⁰-15⁰⁰

LUNCH

SECTION 2

MECHATRONICS

Friday, May 26th, 2017
Hotel President, Room 2

Chairman *prof.dr.ing. Radu Cătălin ȚARCĂ*

900-920

Cornel Cătălin GAVRILĂ, Radu VELICU, Mihai -Tiberiu LATEȘ
3D MODELING AND FEM ANALYSIS FOR SOLAR PANEL MOUNTING SYSTEM ON A HOUSE ROOF

920-940

Lenard JURJ, Radu VELICU, Radu SAULESCU
INFLUENCE OF PROFILE ANGLE ON FORCES DISTRIBUTION ON SILENT CHAIN TRANSMISSIONS

940-1000

ENDROWEDNES KUANTAMA, RADU TARCA
QUADCOPTER THRUST OPTIMIZATION WITH DUCTED-PROPELLER

1000-1020

Sanjib Kumar SAREN, Florin BLAGA, Tiberiu VESSELENYI
AUTOMATED PRODUCTION BASED MODEL OF FLEXIBLE CELL USING TIMED COLORED PETRI NETS

1020-1040

Radu PAPUC, Cătălin GAVRILĂ, Mihai – Tiberiu LATEȘ
TRIBOLOGICAL TESTS OF STEEL ON POLYAMIDE 66, POLYAMIDE 46 TYPE SURFACE CONTACTS

1040-1100

Viktória ÁCS, János TÓTH
TEST STATION FOR REED SENSORS AND INDUCTIVE PROXIMITY SWITCHES

1100-1120

BREAK

1120-1140

Syeda Adila AFGHAN, Husam ALMUSAWI, Husi GEZA
SIMULATING THE ELECTRICAL CHARACTERISTICS OF A PHOTOVOLTAIC CELL BASED ON A SINGLE-DIODE EQUIVALENT CIRCUIT MODEL

11⁴⁰-12⁰⁰

Zsolt MOLNÁR, Timotei István ERDEI, Nwachukwu C. OBINNA, Géza HUSI

A NOVEL DESIGN OF AN AIR-CUSHION VEHICLE AND ITS IMPLEMENTATION

12⁰⁰-12⁴⁰

Timotei István ERDEI, Zsolt MOLNÁR, Nwachukwu C. OBINNA, Géza HUSI

CYBER PHYSICAL SYSTEMS IN MECHATRONIC RESEARCH CENTRE

12⁴⁰-13⁰⁰

Mariana RATIU, Mariana Adriana PRICHICI

INDUSTRIAL ROBOT TRAJECTORY OPTIMIZATION- A REVIEW

13³⁰-15⁰⁰

LUNCH

SECTION 3

MACHINES ENGINEERING and TECHONOLOGIES

Friday, May 26th, 2017

Hotel President, Room 1

Chairmans

prof.dr.ing. Florin Sandu BLAGA

900-920

Gavril GREBENIŞAN, Sanda BOGDAN

***PARAMETERIZED FINITE ELEMENT ANALYSIS OF A SUPERPLASTIC FORMING
PROCESS, USING ANSYS***

920-940

Imre TIMÁR, Pál HORVÁTH

MULTIOBJECTIVE OPTIMIZATION OF PLANAR TRUSS GIRDER

940-1000

Zvonko PETROVIĆ, Milutin ŽIVKOVIĆ, Ivan BIJELIĆ, Jasmina MILJOJKOVIĆ

***DEVELOPMENT ALGORITHM AND SOFTWARE SYSTEM FOR PREPARATION TOOL
SET IN MODERN TECHNOLOGICAL SYSTEMS***

1000-1020

Milutin ŽIVKOVIĆ, Jasmina MILJOJKOVIĆ, Tijana STOŽINIĆ, Ivan BIJELIĆ, Slobodan MILOŠEVIĆ,
Nemanja MOR

***THE EFFECT OF AXIAL CLEARANCE IN GEAR PUMPS ON VOLUMETRIC
EFFICIENCY***

1020-1040

Gavril GREBENIŞAN, Nazzal SALEM

***THE MULTI-OBJECTIVE GENETIC ALGORITHM OPTIMIZATION, OF A
SUPERPLASTIC FORMING PROCESS, USING ANSYS***

1040-1100

Nicoleta Luminița CĂRUȚAȘU, Nicoleta Elisabeta PASCU, George CĂRUȚAȘU

***DYNAMIC BEHAVIOR OF THE HORIZONTAL MILLING AND DRILLING MACHINE
SPINDLE ASSEMBLY WITH DYNROT SOFTWARE***

1300-1500

LUNCH

SECTION 4

MANAGEMENT and ECONOMICS in ENGINEERING

Friday, May 26th, 2017

Hotel President, Room 4

Chairman *prof.dr.ing. Mircea Teodor POP*

900-915

Dan SAVESCU

SOME ASPECTS REGARDING MEETINGS MANAGEMENT

915-930

Vlado MEDAKOVIĆ, Slaviša MOLJEVIĆ, Ranka GOJKOVIĆ, Srđan VASKOVIĆ

***ABILITY OF MANAGERS FOR CRISIS MANAGEMENT IN SMALL ENTERPRISES STUDY
IN BOSNIA AND HERZEGOVINA***

930-945

Marian ZAHARIA, Aniela BĂLĂCESCU, Aurelia PĂTRAȘCU

***ASPECTS OF PRIMARY PRODUCTION OF SOLAR THERMAL AND PHOTOVOLTAIC
ENERGY IN EUROPEAN UNION***

945-1000

Gina-Maria MORARU

BENCHMARKING IN ROMANIAN INDUSTRIAL ENVIRONMENT

1000-1015

MARIAN ZAHARIA, RODICA MANUELA GOGONEA, ANA TĂNĂSESCU

***CHARACTERISTICS OF THE EVOLUTION OF RENEWABLE ENERGY PRODUCTION IN
EUROPEAN UNION***

1015-1030

Mihaela Brîndușa TUDOSE, Lidia ALEXA

***THE EFFECT OF MARKETING EXPENSES ON CAR SALES – AN EMPIRICAL
ANALYSIS***

10³⁰-10⁴⁵

Lidia ALEXA, Silvia AVASILCĂI, Adriana BUJOR

MULTIPLE STAKEHOLDERS'S CO-CREATION PROCESS IN NEW PRODUCT DEVELOPMENT- AN EXPLORATORY ANALYSIS

10⁴⁵-11⁰⁰

Ana ŽIVKOVIĆ, Stanko BULAJIĆ, Tatjana ILIĆ KOSANOVIĆ

PROJECT MANAGEMENT USING AGILE METHODOLOGY

11⁰⁰-11¹⁵

BREAK

11¹⁵-11³⁰

Suzana DOLJANICA, Tatjana MIĆOVIĆ

RISK MANAGEMENT IN BANKING SYSTEM

11³⁰-11⁴⁵

Ana-Andreea MIHARTESCU, Mircea-Liviu NEGRUT, Crisanta-Alina MAZILESCU

THE USE OF DATABASES IN MARKETING

11⁴⁵-12⁰⁰

Ana-Andreea MIHARTESCU, Mircea Liviu NEGRUT, Mihai MISCA

CUSTOMER VALUE ASSESSMENT METHODS

12⁰⁰-12¹⁵

Adriana BUJOR, Silvia AVASILCAI, Lidia ALEXA

THE NATURE OF THE CREATIVE WORKFORCE

12¹⁵-12³⁰

Ciprian CRISTEA, Ciprian SAȘA, Maria CRISTEA

A FUZZY QUALITY FUNCTION DEPLOYMENT APPROACH TO IMPROVE A COMPONENT OF A SUPERVISORY CONTROL AND DATA ACQUISITION SYSTEM

12³⁰-12⁴⁵

Amna AŠČIĆ, Mirsad IMAMOVIĆ

STATISTICAL DESCRIPTIONS OF DELIVERED QUANTITY OF WATER BY SOURCES IN THE FEDERATION OF BOSNIA & HERZEGOVINA

12⁴⁵-13⁰⁰

Radoje CVEJIĆ, Velimi ŠČEKIĆ, Duško KOSTIĆ

MARKETING CONCEPTS OF INDUSTRIAL BRANDING

13⁰⁰-13¹⁵

Stanko BULAJIĆ, Ana ŽIVKOVIĆ, Tatjana ILIĆ KOSANOVIĆ

MUTLICULTURAL TEAM LEADERSHIP IN GLOBAL ORGANIZATIONS

13⁰⁰-15⁰⁰

LUNCH

SECTION 5

TRANSPORT and AUTOMOTIVE ENGINEERING

Friday, May 26th, 2017
Hotel President, Room 5

Chairman *prof.dr.ing. Alexandru RUS*

900-920

Gheorghe CIOLAN, Ion PREDA, Mircea NASTASOIU
***STOCHASTIC OPTIMIZATION MODEL FOR RANDOM DEMAND STOCKS, WITH
STORAGE EXPENSES ACCOUNTING***

920-940

Nicolae ISPAS, Mircea NĂSTĂSOIU
ANALYSIS OF THE CARS LANE CHANGES ACCIDENTS

940-10⁰⁰

Mirsad IMAMOVIĆ
***APPLICATIONS OF INTELLIGENT TRANSPORTATION TECHNOLOGIES FOR
VEHICLE CONTROL***

13⁰⁰-15⁰⁰

LUNCH