



The 9th International Conference

INTER-ENG 2015
Interdisciplinarity in Engineering



2015

CONFERENCE PROGRAM

„Petru Maior” University of Tîrgu - Mureș
Faculty of Engineering
www.inter-eng.upm.ro

8 - 9 October 2015

Tîrgu - Mureş, România

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Opening Ceremony

Thursday, October 8th; 10:00 – 10:30

Aula Magna

Welcome Addresses:

Prof. dr. Călin ENĂCHESCU - Rector of „Petru Maior” University of Tîrgu - Mureş

Prof. dr. ing. Liviu MOLDOVAN - Vice-rector of „Petru Maior” University of Tîrgu - Mureş

Conf. dr. Nicolae CHIRILĂ - Dean of the Faculty of Engineering, „Petru Maior” University of Tîrgu - Mureş

Plenary Session

Thursday, October 8th; 10:30 – 12:30

Aula Magna

Environmental Economy and Society Welfare

Prof. Dr. Eng. Abdelazim M. Negm - Egypt-Japan University of Science and Technology, E-JUST, Egypt

Beyond Resolution

Prof. Dr. Eng. Khalil Khalili- University of Birjand, Mechanical Engineering Department, Iran

Remote Labs in Europe and Beyond

Prof. Dr. Eng. Thomas Zimmer- University of Bordeaux, IMS: Laboratory for the integration of materials into systems (Laboratoire de l'Intégration du Matériau au Système), France

Parallel Sessions and Virtual Panel Sessions

Thursday, October 8th; 14:00 – 16:30

Rooms: Aula Magna, A103, A209, A307, A308, A309, A310, A316, A412

Parallel Sessions and Virtual Panel Sessions

Thursday, October 8th; 16:45 – 19:00

Rooms: Aula Magna, A103, A307, A308, A310, A316, A412

Gala dinner

Thursday, October 8th; 19:30

Plenary Session

Friday, October 9th; 9:00 – 10:30

Aula Magna

String transformation approach for morpheme rule induction

Dr. habil. László KOVÁCS, University of Miskolc, Department of Information Technology,
Hungary

A control approach for guaranteeing performance and dependability in Big Data Cloud Systems

Dr. Eng. Bogdan Robu, University of Grenoble, GIPSA-lab laboratory Control Systems
Department, France

Parallel Sessions and Virtual Panel Sessions

Friday, October 9th; 10:40 – 12:40

Rooms: Aula Magna, A308, A309, A316

Closing Ceremony, social and cultural event

Friday, October 9th; 13:45

Advanced Mechanical Manufacturing, Design and Technologies

Room A308

Thursday, October 8th 2015; 14:00 – 16:30, 16:45 – 19:00

Session chairs:

Khalil Khalili – University of Birjand, Iran

Sorin-Cristian Albu – “Petru Maior” University of Tîrgu - Mureş

Determination of Tangency Point Between the Cylindrical Sharp Stylus and a Helical Surface of the Cylindrical Worms

Sorin Cristian Albu

Crack Analysis of Reinforced High Strength Concrete Elements in Simulated Aggressive Environments

Camelia Negrutiu, Ioan Sosa, Horia Constantinescu, Bogdan Heghes

A New Method of Diminishing Errors of Form Generated by the Imprecision of CNC Machines

Erika Wagner

ZPA Flank Evaluation, Using Spherical Stylus

Sorin Cristian Albu, Alexandru Pozdîrcă

The Influence of Process Parameters on Non-Conventional Technology in Drawing Cassette Roller Die

Adriana-Maria Mihiu, Ioana Monica Sas-Boca, Ionut Marian, Dana-Adriana Ilutiu-Varvara, Liviu Nistor

Finite Element Analysis of Drawing Wire in Cassette Roller Die

Adriana-Maria Mihiu, Ioana Monica Sas-Boca, Ionut Marian, Iulian Sebastian Mihiu, Dorina Simona Ianc, Liviu Nistor

Case Study: Designing A 40 Storey High Office Building Using Two Variants, With Regular Concrete Columns and With Compound Ultra-High Performance Concrete Columns and Regular Concrete Columns

Mircea Popa, Zoltan Kiss, Horia Constantinescu

Computer Aided System for Superfinishing Process Control

Tadeusz Mikolajczyk, Tomasz Fas, Adam Kłodowski, Maciej Matuszewski, Adrian Olaru, Serban Olaru

Research Regarding the Influence of Raw Material and Knitted Fabric Geometry on the Tensile Strength and Breaking Elongation

Dorin Vlad, Lucian-Ionel Cioca

The Comparative Study on the Behavior of the Speed Reducer with Worm Face Gear With Modified Geometry

Ioan-Claudiu Boanta, Vasile Bolos

Application of the Inverse Finite Element Approach for the Fast Simulation of Tube Hydroforming

Mohamed-Saïd Chebbah, Nacer Hebbir, Toufik Kanit, Sara Dhimi

Method of Structural Design of Heavy Machine Tools

Viktor Kovalov, Yana Antonenko, Predrag Dašić

Flexible Automation in Porcelain Edge Polishing Using Machine Vision

Syed Javad Hosseininia, Khalil Khalili, Syed Mohammad Emam

Improving of Vibration Resistance of Boring Tools by Big Diameter Holes Tooling on Lathe

Vadim Khoroshailo, Viktor Kovalova, Predrag Dašić

Identification of Beam Cracks Characteristics by Solution of an Inverse Problem

Sara Teidj, Abdellatif Khamlichi, Abdallah Driouach

Advanced Mechanical Manufacturing, Design and Technologies

Room A308

Friday, October 9th 2015; 10:40 – 12:40

Session chairs:

Vasile Boloş – “Petru Maior” University of Tîrgu - Mureş

Răzvan Cazacu – “Petru Maior” University of Tîrgu - Mureş

Predictability of Impact Force Localization by Using the Optimization Technique

Abdelali El-Bakari, Sara Teidj, Abdellatif Khamlichi, Eric Jacquelin

New Cycloidal Speed Reducer Model

Alexandru Pozdîrcă

Experimental Research Concerning the Contact Patch of the Double Worm Face Gear

Margareta Ciotea, Vasile Bolos

New Method of Cold Forming by the Spheres for Pipe Converting To the T-Shape Tube

Hossein Faraji, Khalil Khalili

Electrode-Tool for Making Holes on Helical Trajectories by Edm

Dumitru Şoaita

Joint Behaviour Between Composite Beams To Reinforced Concrete Wall

Maria Pop, Zoltan Kiss, Paul Pernes

Shear Behaviour of Uhpc Concrete Beams

Raul Zagon, Zoltan Kiss

Assessment of the Concretes Mechanical Strengths From the Construction Elements Supposed on Dissolving – Levigation Corrosion

Livia Ingrid Diaconu, Diana Plian

Assessment of the Concretes Mechanical Strengths From the Panels Joints Supposed on Dissolving – Levigation Corrosion

Livia Ingrid Diaconu, Diana Plian

Reliability Analysis of Dynamic Buckling State for Welded Stiffened Panels

Ouadia Mouhat, Abdellatif Khamlichi

New and Advanced Materials

Room A103

Thursday, October 8th 2015; 14:00 – 16:30, 16:45 – 19:00

Session chairs:

Gabriela Strnad – “Petru Maior” University of Tîrgu - Mureş

Simona Matei – Transilvania University, Brasov

The Heat Treatment Influence of 1.3343 High Speed Steel on Content of Residual Austenite

Maria Stoicanescu, Emilian Ene, Adriana Zara, Ioan Giacomelli

Studies Regarding Mechanical Properties Improvement of Aluminum Alloy Type Atsi5Cux and Results Validation by Calculating Precision Indicators

Maria Stoicanescu, Mihaela Smeada, Aurel Crisan

Contact Angle Measurement on Medical Implant Titanium Based Biomaterials

Gabriela Strnad, Nicolae Chirila, Cecilia Petrovan, Octav Russu

Improving Corrosion Resistance of Steels by Nitrogen Alloying.

Florentin Victor Nicodim, Mihai Constantin Moga

Composites With Short Fibers Reinforced Epoxy Resin Matrix

Simona Matei, Maria Stoicanescu, Aurel Crisan

Modeling of Long Period Grating in SMF-28 Fiber: Change of Ambient Refractive Index

Hicham Chikh-Bled, Boumediène Lasri, Moheemmed El-Kebir Chikh-Bled

Study of a New Composite Material RT800 Reinforced With Polyte 440-M888 in Endurance Conditions

Arina Modrea, Vasile Gheorghe, Venetia Sandu, Horatiu Teodorescu-Draghicescu, Mircea Mihalcica

Influence of the Temperature on the Properties of an Advanced Polymer Matrix Composites

Vasile Gheorghe, Horațiu Teodorescu-Draghicescu, Veneția Sandu, Nicolae Sirbu, Arina Modrea

Structural Optimization of Composite from Wind Turbine Blades with Horizontal Axis Using Finite Element Analysis

Mariana Domnica Stanciu, Ioan Curtu, Ionuț Tesula

The Poisson Ratios Establishing of the Soft-Wood Materials Components

Ioan Szava, Botond-Pál Gálfi, Arina Modrea, Sorin Vlase

New Alternative in the Methodology of Extraction and Dyeing with Active Molecules Derived From Vegetal Sources

Diana Coman, Narcisa Vrînceanu, Remus Călin Cipăian, Milena Dinu

Application of Particle Swarm Optimization for Optimizing the Process Parameters in Turning of Peek CF30 Composites

Issam Hanafi, Francisco Mata Cabrera, Fouad Dimane, José Tejero Manzanares

Long-Term Behaviour of Ultra – High Performance Concrete (UHPC) Bended Beams

Gheorghe Alexandru Bărbos

Geochemical Assessment of Limestone for Cement Manufacturing

Noureddine Bouazza, Abdelaziz El Mrihi, Ali Maâte

Mechanical Properties of Hardened High Strength Concrete

Horia Constantinescu, Oana Gherman, Camelia Negrutiu, Ioan Pavel Sosa

A Study on A Two-Way Post-Tensioned Concrete Waffle Slab

Ilinca-Florina Moldovan, Aliz-Eva Mathe

Early Age Compression Strength Evaluation for High Strength Concrete with Different Types of Fibers Using Non-Destructive Methods

Bogdan Heghes, Camelia Negrutiu, Ioan Sosa

The Behavior of Different Precast Concrete Structures Under Seismic Action

Florin Tosa, Riyadh Salha

Effect of Carbon Nanotubes Dispersion Conditions on the Fracture Toughness Properties of Epoxy Matrices

Wan Hanif Wan Yaacob, Risby Sohaimi, Mazlee Noor, Faris Tarlochan

The Passive Mixing Phenomena in Microtubes with Baffle Configuration

Roxana Milotin, Dorin Lelea

New Types of Plastering Mortars Based on Marble Powder Slime

Luminita Molnar, Daniela Lucia Manea

Sustainable Development

Room Aula Magna

Thursday, October 8th 2015; 15:00 – 16:45, 17:00 – 19:30

Session chairs:

Edward Rakosi – “Gheorghe Asachi” Technical University of Iasi

Răzvan Cazacu – “Petru Maior” University of Tîrgu - Mureş

Ştefan Burciu – University Politehnica of Bucharest

Determining the Optimum Addition of Vegetable Materials in Adobe Bricks

Gabriela Calatan, Andreea Hegyi, Carmen Dico, Calin Mircea

Solutions to Improving the Performances and Emission Control in Poor Mixtures Fueled Automotive Spark Ignition Engine

Edward Rakosi, Sorinel Gicu Talif, Gheorghe Manolache

Location of Production Facilities in the Framework of Sustainable Development

Stefan Burciu, Mihaela Popa, Eugen Rosca, Florin Rusca

Reduced Carbon Footprint with Composite Structures

Gabriel Mircea Urian, Alina Dora Haupt-Karp

Analyzing Public Transportation for the Effects of Individual Characteristics on Mode Choice With Multi Agent Simulation

L. Özge Oral, Vahap Tecim

Mineralogical Assessment Regarding the Sustainability of Mortars Exposed to Sodium Sulphate Attack

Anca-Andreea Balog, Nicoleta Cobirzan, Ramona-Crina Suciuc, Emilia Mosonyi, Claudiu Aciu

Sustainability of Masonry and Reinforced Concrete Frame Structures. Case Studies

Attila Puskas, Ligia Moga

Nexus of the Load Bearing Capacity of Rails and the Stiffness of the Optimized Sleepers

Szabolcs Attila Kollo, Gavril Kollo, Attila Puskas

Using Intersection Conflict Index in Urban Traffic Risk Evaluation

Dorinela Costescu, Serban Raicu, Mircea Augustin Rosca, Stefan Burciu, Florin Valentin Rusca

Alternative Energy Driven Pneumatic Vehicle

Mihai Simon, Robert - Barna Dániel, Dan Dascalul, Szilárd - József Ozsváth, Razvan-Bogdan Boroş

Green Plastering Mortars Based on Clay and Wheat Straw

Dana Maria Andres, Daniela Lucia Manea, Radu Fechete, Elena Jumate

Clay Mortar Performance Improvement by Modifying the Physical Characteristics of Wheat Straw

Dana Maria Andres, Daniela Lucia Manea, Radu Fechete, Elena Jumate

Attends for Free Oil Building Materials “Clay Pipes To Replace Plastic Ones”

Riyadh Salha, Florin Tosa

Improving Thermal Performance of the Wall Panels Using Slotted Steel Stud Framing

Lidia Lupan, Daniela Manea, Ligia Moga

3N-AHP Model, the New Multiactor Multicriteria for the Selection of Optimal Corridors of the Line Infrastructure Facilities

Izet Hot, Nazim Manic, Veis Šerifi

Optimizing Production Costs by Redesigning the Treatment Process of the Industrial Waste Water

Boer Jozsef, Petruţa Blaga

Waste Management, Geohazards and Environmental Technology

Room A209

Thursday, October 8th 2015; 14:00 – 16:30, 16:45 – 19:00

Session chairs:

Nicolae Chirilă – “Petru Maior” University of Țirgu - Mureș

Dana-Adriana Iluțu-Varvara – Technical University of Cluj – Napoca

Florica Morar – “Petru Maior” University of Țirgu - Mureș

Detection of Flood Hazard in Urban Areas Using Gis: Izmir Case

Sevim Pelin Ozkan, Cigdem Tarhan

Environmental and Financial Assessment for a CCHP District Plant in a City in Romania

Bogdan-Andrei Tofan, Ion Serbanoiu, Marina Verdes, Andrei Burlacu

Improving Disaster Resilience Using Mobile Based Disaster Management System

Can Aydın, Cigdem Tarhan, Ahmet Selcuk Ozgur, Vahap Tecim

The Control of Natural Disaster Caused by Slopes Sliding by Means of Stepped Buildings

Nicoleta-Maria Ilies, Vasile-Stelian Farcas, Radu-Vasile Cot, Ioana-Madalina Moldovan

Recycling of Acrylonitrile–Butadiene–Styrene Using Injection Moulding Machine

María De Gracia Trujillo García, Manfred Schlatter, Francisco Mata Cabrera, José Tejero Manzanares, Issam Hanafi

Characterization of Polymer Concrete with Different Wastes Additions

Marinela Barbuta, Mircea Rujanu, Alina Nicuta

The Flying Ash Taken by Wet Process From C.E.T. Holboca lassy – Major Pollution Source

Ileana Ioniuc, Livia Ingrid Diaconu, Cristina Grigorescu, Monica Mihaela Alexoae

An Algorithm Based on the Backtracking Method for Cropping-Systems and the Rotation of Cultures

Doru Anastasiu Popescu, Nicolae Bold, Alina Claudia Bold

A Performant State-of-Art Tool to Assess Cross-Border Impact of Industrial Activities. A Transboundary Air Pollution Case Study.

Francisc Popescu

An Assessment of Pollution with Polychlorinated Dibenzodioxins (PCDDS) and Polychlorinated Dibenzofuranes (PCDFS) at Steelmaking

Dana-Adriana Iluțiu-Varvara

An Assessment of Pollution with Volatile Organic Compounds in the Electric Arc Furnaces

Dana-Adriana Iluțiu-Varvara, Carmen Maria Mârza, Claudiu Aciu, Adriana Hădărean

Influence of Soil Tillage Systems and Weed Control Treatments on Root Nodules, Production and Qualitative Indicators of Soybean

Cornel Chetan, Teodor Rusu, Felicia Chetan, Alina Simon

Effect of Metal Ions, Chemical Agents, and Organic Solvent on Bacillus Sp.R2 Chitinase Activity

Ben Amar Cheba, Taha Ibrahim Zaghoul, Ahmad Rafik El-Mahdy, Mohammad Hisham El-Massry

Effect of Ph and Temperature on Bacillus Sp. R2 Chitinase Activity and Stability

Ben Amar Cheba, Taha Ibrahim Zaghoul, Ahmad Rafik El-Mahdy, Mohammad Hisham El-Massry

Environmental Impact Assessment of Diesel Fuel and Solar Pumps in Operation Stage for Rice Cultivation in Tanta, Nile Delta, Egypt

Asaad Armanous, Abdelazim Negm, Abd El Hamid El Tahan

The Influence of Sugarprocessing Effects on Water in Treatment plants

Florica Morar, Dana Rus, Bogdan-Ionuț Lung

Comparative analysis of WEEE recovery strategies and the WEEE treatment status in China and Romania

Daniel Lateș, Sorina Moica

Diversity of Amylase Producing Bacteria from Eighth Different Plant Rhizospheres

Slimane Choubane, Amina Benourrad, Ben-Amar Cheba

Study on Procedures for Acceptance of Waste in Landfill

Florica Morar, Anișoara Stoica, Bogdan Bucur

Control and Intelligent Systems

Room A310

Thursday, October 8th 2015; 14:00 – 16:30, 16:45 – 19:00

Session chairs:

Mircea Dulău – “Petru Maior” University of Tîrgu – Mureş

Katalin György – Sapientia University

Adrian-Vasile Duka – “Petru Maior” University of Tîrgu-Mureş

Model Reference Adaptive Control Design for Slow Processes. A Case Study on Level Process Control

Stelian-Emilian Oltean, Mircea Dulău, Adrian-Vasile Duka

Multivariable System with Level Control

Mircea Dulău, Tudor-Mircea Dulău

Theoretical Study of the Nonlinear Control Algorithms With Continuous and Discrete-Time State Dependent Riccati Equation

Katalin György, László Dávid, András Kelemen

Monitoring and Control Platform for Homes Based on FPGA, SoC and Web Technologies

Oana-Valentina Rusu, Adrian-Vasile Duka

IMC Based PID Control of A Magnetic Levitation System

Adrian-Vasile Duka

Adaptive Neuro-Fuzzy Structure Based Control Architecture

Tibor Tămas, Szabolcs Hajdu, Sándor Tihamér Brassai

Study on Optical Fiber Insertion in Underground Telecommunication Networks Using Hydraulic Similarity

Mircea Grigoriu, Marius Constantin Popescu

Modeling and Simulation of the Operation of a Mechanical System Which Is Affected by Uncertainties

Mircea Dulău, Stelian-Emilian Oltean, Adrian-Vasile Duka

Tracking Kinematic Gait Parameters During the Recovery of Motor Function After Total Knee Arthroplasty

Mircea Mihalciică, Arina Modrea, Violeta Munteanu, Ioan Burcă

Fetal ECG Extraction From Multichannel Abdominal ECG Recordings for Health Monitoring During Labor

Viorel Ionescu

Non-Linear Methods in HRV Analysis

Zoltán Germán-Salló

Vibration Detection of the Electrical Motors Using Strain Gauges

Katalin Agoston

Localization of Impact Force Occuring on Elastic Plates by Using a Particle Swarm Optimization

Abdelali El-Bakari, Abdellatif Khamlichi, Eric Jacquelin

An Efficiency PI Speed Controller for Future Electric Vehicle in Several Topology Conditions.

Brahim Gasbaoui, Abdelfatah Nasri, Othmane Abdelkhalek

Novel Four Wheel Drive Propulsion System Control Using Backstepping Strategy

Abdelfatah Nasri, Brahim Gasbaoui, Fayssal Yamani Benmohamed

Sliding Mode Control for Four Wheels Electric Vehicle Drive

Abdelfatah Nasri, Brahim Gasbaoui, Fayssal Yamani Benmohamed

Modelling an Eddy-Current Probe for Damage Detection of Surface Cracks in Metallic Parts

Abdeslam Aoukili, Abdellatif Khamlichi

Estimation of Initial Functions for Systems with Delays Based on Discrete Time Measurements

Krzysztof Fajarewicz

Fault Tolerant Control Multiprocessor Systems Modelling Using Advanced Stochastic Petri Nets

Mariana Dumitrescu

Control and Intelligent Systems
Room A316
Friday, October 9th 2015; 10:40 – 12:40

Session chairs:

Stelian Oltean – “Petru Maior” University of Tîrgu – Mureş

Musab Coşkun – Fırat University

Horăţiu-Stefan Grif – “Petru Maior” University of Tîrgu-Mureş

Neural Estimator Automatic Daylight Control System

Horăţiu-Stefan Grif, Zoltan German-Sallo, Adrian Gligor

Mouse Cursor Control System Based on Hand Gesture

Cristian Fărcaş, Horatiu-Stefan Grif

Implementation of Tracking of a Moving Object Based on Camshift Approach with a UAV

Musab Coşkun, Sencer Ünal

Influence of the Electrical Conductivity and Dielectric Constant in the Performance of the Ground Penetrating Radar

Gamil Alsharahi, Abdellah Driouach, Ahmed Faize

A Low Mutual Coupling Design for Array Microstrip Antennas Integrated With Electromagnetic Band-Gap Structures

Abdelmoumen Kaabal, Mustapha El Halaoui, Saida Ahyoud, Adel Asselman

Simulation Model for Calculating the Route Time of a Vehicle

Voichita Angela Roib

PIC 18C452 Controlled Bipolar Stepper Motor Drive for Single Axis NC Positioning System

Alexandru Morar

CNC Four Axis Stepper Motor Control System Using Mach3 Machine Controller Software

Alexandru Morar

Design of A New Antenna in the Symbol of Dolar for Wlan Technology

Khalid Hati, Nisrin Sabbar, Abdellah El Hajjaji, Hassan Asselman

Power and Energy Systems

Room A412

Thursday, October 8th 2015; 14:00 – 16:30, 16:45 – 19:00

Session chairs:

Dorin Bică – “Petru Maior” University of Tîrgu-Mureş

Pavel Atănăsoae – “Stefan cel Mare” University of Suceava

Daniel Dragomir-Stanciu – “Petru Maior” University of Tîrgu-Mureş

Smart Grid Economic Dispatch

Lucian Ioan Dulău, Mihail Abrudean, Dorin Bică

Optimal Location of a Distributed Generator for Power Losses Improvement

Lucian Ioan Dulău, Mihail Abrudean, Dorin Bică

Medium Encapsuled Voltage Cell Protection Against Electric Arch

Claudiu Damian, Radu Tîrnovan, Andron Dumitru, Marian Oşan

Determining the Operating Diagram for the Cogeneration Steam Turbines

Pavel Atanasoae

Specific Issues on the Design and Expertise of the Steel Columns for Overhead Power Lines

Vincentiu Cristian Iuhos, Cristina Mihaela Câmpian

Heat Exchanger Versus Storage Tank for Hot Tap Water Preparation in District Heating Systems

Radu Manescu

Numerical Simulation of the Functionality of the HVAC System in a Socio-Cultural Building

Cătălin-George Popovici, Valeriu Sebastian Hudisteanu

Solutions for Thermal and Energy Rehabilitation and Modernization of Buildings

Ioan Giurca, Ioan Aşchilean, George Sebastian Naghiu, Gheorghe Badea

On Combustion of Diesel Fuel Drops at LPG Fuelling by Diesel Gas Method

Alexandru Cernat, Constantin Pană, Nicolae Negurescu, Cristian Nutu

The Influence of LPG Fuelling on Diesel Engine Cycle Variability

Alexandru Cernat, Constantin Pană, Niculae Negurescu, Cristian Nutu

Simulating the Effect of Gas Channel Geometry on PEM Fuel Cell Performance by Finite Element Method

Viorel Ionescu

Influence of E20 Fuelling on Combustion Cycle Variability at Turbocharged Spark Ignition Engine

Zuhair Obeid, Alexandru Cernat, Constantin Pana, Niculae Negurescu, Cristian Nutu

Dynamic Simulation and Optimization of Rhombic Drive Stirling Engine Using MSC Adams Software

Wael S. Badr, Mohammed Fanni, Ali K. Abdel-Rahman, Sayyed Abdel-Rassoul

Hybrid Tubular Daylight Guidance System Survey

Călin Ciugudeanu, Dorin Beu

Thermal Rehabilitation Technology and the Nearly Zero-Energy Buildings. Romanian Representative Education Buildings-Case Study

Irina Baran, Laura Dumitrescu, Radu Aurel Pescaru

Churches Heating: the Optimum Balance Between Cost Management and Thermal Comfort

Florin Emilian Turcanu, Marina Verdes, Ion Serbanoiu

Renewable Energy Management and Technologies

Room A412

Friday, October 9th 2015; 10:40 – 13:40

Session chairs:

Cristian-Dragoş Dumitru – “Petru Maior” University of Tîrgu-Mureş

Claudiu Damian – FDEE Electrica Distribuţie Transilvania Sud

Technical and Economical Analysis of a Solar Power System Supplying a Residential Consumer

Karoly Ronay, Cristian Dragoş Dumitru

An Approach to Intelligent Road Lighting System with Renewable Energy Based Power Supply

Karoly Ronay, Cristian Dragoş Dumitru

Renewable Energy Forecast Using Neural Networks

Cristian-Dragoş Dumitru, Adrian Gligor, Călin Enăchescu

A Maximum Power Point Tracking for Optimal Wind Energy Capture

El Yaakoubi Ali, Asselman Adel, Aroudam El Hassan

SCADA System for Solar MPPT Controller Monitoring

Cristian-Dragoş Dumitru, Petru-Claudiu Pasc

Multicriterial Analysis on Selecting Solar Radiation Concentration Ration for Photovoltaic Panels Using Electre-Boldur Metod

George Sebastian Naghiu, Ioan Giurca, Ioan Aşchilean, Gheorghe Badea

Comparative Analysis on the Solutions of Hydrogen Production Using Solar Energy with and without Connection to the Power Network

George Sebastian Naghiu, Ioan Giurca, Ioan Aşchilean, Gheorghe Badea

Mathematical Study of Implicit Equation for Solar Cell To Explicit Form

Mohamed Louzazni, El Hassan Aroudam

Mathematical to Extraction of Solar Cell Parameters from Implicit Equation to Explicit Form

Mohamed Louzazni, Aroudam El Hassan

Solar Power Generation System with Low Temperature Heat Storage

Daniel Dragomir-Stanciu, Constantin Luca

Information Systems Technology and Mathematics

Room 316

Thursday, October 8th 2015; 14:00 – 16:30, 16:45 – 19:00

Session chairs:

Bela Genge – “Petru Maior” University of Tîrgu - Mureş

Marius Muji – “Petru Maior” University of Tîrgu – Mureş

Adrian Gligor – “Petru Maior” University of Tîrgu-Mureş

Dual Band PIFA for WLAN and WIMAX MIMO Systems for Mobile Handsets

Mustapha El Halaoui, Abdelmoumen Kaabal, Hassan Asselman, Saida Ahyoud, Adel Asselman

Evaluation of Public Transport Trips Using Mobile Communications

Razvan Andrei Gheorghiu, Maria Claudia Surugiu

A New Probabilistic Approach Based on Markov Process for Matching Problem

Khalid Hati, Abdellah El Hajjaji

Hybrid Optimization Method for Design of Rail Passengers Safety and Comfort System

Adam Galuszka, Andrzej Swierniak, Tomasz Hejczyk, Jakub Mlynczak

Quality Assessment of Pixel- Based Image Classification of Fused Satellite Images

Srinivasa Rao Dammavalam, Seetha M, Krishna Prasad Mhm

A Single Database Scan Approach for Mining Similarity Profiled Temporal Association Patterns

Radhakrishna Vangipuram, V Kumar P, Janaki V

Qos Web Service Security Access Control Case Study Using HTTP Secured Socket Layer Approach

Swamidas More, Govardhan A, Vijaya Lakshmi D

Secure Data Transmission Using Ms- Extended 8-Bit Ascii Character Set

Sruthi Bellam

Performances Evaluation of Surface Water Areas Extraction Techniques Using Landsat Etm+ Data: Case Study Aswan High Dam Lake (AhdI)

Mohamd Elsayhbi, Abdelazim Negm, Abd El Hamid El Tahan

Multiclass Classification Problem of Large-Scale Biomedical Meta-Data

Sebastian Student, Justyna Pieter, Krzysztof Fajarewicz

Remarcable Models of Potential Theory

Diana Mărginean

Subtractive P-supermedian functions and P-absorbant sets on \mathbb{N}^*

Diana Mărginean

Information Systems Technology
Room Aula Magna
Friday, October 9th 2015; 10:40 – 12:40

Session chairs:

László Kovács – University of Miskolc

Marius Muji – “Petru Maior” University of Tîrgu - Mureş

Biometric Authentication Based on Touchscreen Swipe Patterns

Margit Antal, László Zsolt Szabó

Fast Probabilistic Pseudo-Morphology for Noise Reduction in Color Images

Radu-Mihai Coliban, Mihai Ivanovici, Iuliu Szekely

Comparison of Boosted Gabor Feature Based Local Descriptor

Szidónia Lefkovits, László Lefkovits

High Level Specifications for a Presentation Data Model

Marius Muji

Computer Hardware Parameter Classification Based on Automation Possibilities. A Case Study

Géza Vekov

Embedded Implementation of a Real-Time Motion Estimation Method in Video Sequences

Laszlo Bako, Fearghal Morgan, Szabolcs Hajdu, Sandor-Tihamer Brassai, Călin Enăchescu

The concept of a Distributed Repository for Validating X.509 Attribute Certificates in a Privileged Management Infrastructure

Adam Mihai Gergely, Bogdan Crainicu

Quality Control Technology

Room A309

Thursday, October 8th 2015; 14:00 – 16:30, 16:45 – 19:00

Session chairs:

Liviu Moldovan – “Petru Maior” University of Tîrgu - Mureş
Dana Corina Deselnicu – University Politehnica of Bucharest
Sorina Moica – “Petru Maior” University of Tîrgu - Mureş

The Business Process Management Map – An Effective Means for Managing the Enterprise Value Chain

Elena Fleaca, Bogdan Fleaca

Research on Drivers' Perception on the Maintenance of Air Filters for Internal Combustion Engines

Marius Toma, Claudia Bobalca

Research on the Air Filters' Maintenance for Diesel Engines

Marius Toma, Iordan Fileru

The Importance of the Manufacturing Sector in Romanian Economy

Emilia Herman

Fleet Management Cooperative Systems for Commercial Vehicles

Maria Claudia Surugiu, Ion Nicolae Stancel

Options for Long Distance Passenger Surface Transport Infrastructure Development. Analysis Regarding Network-Based Sustainable Development

Mihaela Popa, Oana Dinu, Stefan Burciu

BUPM-02 – Software Application for Budget Management of An Organization

Ioan Mocian

The Importance of the Dimensions of the Innovation Management in Evaluating the Innovation Capability of the Firms in the Machine Building Industry in Romania

Cătălin-George Alexe, Cătălina-Monica Alexe

A Virtual Prototyping System Research and Implementation in a Collaborative PLM Environment

Catalin Constantin Moldovan, Ionel Staretu

Improvement on Resolution of Dimensional Visual Measurements

Khalil Khalili

Defining Open Innovation Concept Using Business Process Modeling

Geanina Silvana Banu, Andreea Dumitrescu, Anca Alexandra Purcărea, Silviu Walter Isărescu

Warehouse Threats and Loss Prevention Management in Case of Fire

Ioana-Lorena Balan, Lucian- Ionel Cioca, Vincenzo Torretta, Luca Talamona

Camera-Based Automatic System for Tool Measurements and Recognition

Tadeusz Mikołajczyk, Adam Kłodowski, Adam Mrozinski

New Products Development Through Customized Design Based on Customers' Needs.

Part 1: Footwear Comfort Parameters

Dana Corina Deselnicu, Ana Maria Vasilescu, Aura Mihai, Anca Alexandra Purcarea, Gheorghe Militaru

Forming a Set and Verification of Relevance Criteria on Evaluation of Alternative Corridors of the Infrastructure Facilities

Nazim Manic, Izet Hot, Veis Šerifi

New Products Development Through Customized Design Based on Customers' Needs.

Part 2: Foot Pathology Manufacturing Parameters

Dana Corina Deselnicu, Ana Maria Vasilescu, Aura Mihai, Anca Alexandra Purcarea, Gheorghe Militaru

Perspective on the Algorithms Used in Developing A Time Management System for An Individual

Serban Popa, Gabriela Prostean, Marius Cioca

Critical Factors That Lead To Projects' Success/Failure in Global Marketplace

Hamed Taherdoost, Abolfazl Keshavarzsaleh

Perusing of Organizational Culture Effect on E-Mail Communication

Mitra Madanchian, Hamed Taherdoost

Study on Creating a Simplified Model of Quality Management System in a SME From the Central Region of Romania

Liviu Dorin Pop

Technological Development - A Tool for Social and Economic Impact of the Chamber of Commerce and Industry of Mures County

Anca Mihaela Redes, Ionela Manciu, Ioana Lese

A Comparative Study of Rural Entrepreneurship Romania – Greece

Elena Lucia Harpa, Sorina Moica, Dana Rus

The Relationship Between Cortisol and the Hippocampal Volume in Depressed Patients – An MRI Pilot Study

Theodor Moica, Adrian Gligor, Sorina Moica

Educational Evaluation Technology

Room A309

Friday, October 9th 2015; 10:40 – 12:40

Session chairs:

Zoltán German-Sálló – “Petru Maior” University of Tîrgu - Mureş

Dana Rus – “Petru Maior” University of Tîrgu – Mureş

Arina Modrea – “Petru Maior” University of Tîrgu - Mureş

Brain Research Using Computer Test

Tadeusz Mikolajczyk, Flaviu Moldovan, Ileana Ciobanu, Agata Chalupczak, Andrea Georgiana Marin

The Challenges of Romanian Higher Education – A Review on the Key Enablers for Modernization

Elena Fleaca, Alexandru Marin, Bogdan Fleaca

Promoting Technological Entrepreneurship Through Sustainable Engineering Education

Daniela Cristina Momete

Study on Designing a Curriculum Suitable for Mooc Platforms Starting Out the Romanian Students' Expectations

Olga Maria Cristina Bucovetchi, Radu D. Stanciu, Cristina Petronela Simion

New Media Literacy within the Context of Socio-Demographic Characteristics

Jasmina Arsenijević, Milica Andevski

Teachers' Roles in Relation to the Ownership Structure of a Faculty

Jasmina Arsenijević, Milanka Maljković

Bio and Micro-Electronics Elearning by Online Collaborative Support

Bogdan Eduard Patrichi, Cristian Ravariu, Florin Babarada

Functional Suitability Analysis of Remote Laboratories in Engineering Education

Zoltan German-Sallo, Horatiu-Stefan Grif, Adrian Gligor

Green Methodology for Learning Assessment

Liviu Moldovan, Ana-Maria Moldovan

Training Outcome Evaluation Model

Liviu Moldovan

Practising Writing Skills in Foreign Language Classes for Engineering Students

Dana Rus

The Actual Study of the Negotiating Meaning in Technical Discourse

Arina Modrea

Methodology for Developing Creativity in A Project for Companies

Avram Tripon

The Relationship Between Creativity and Entrepreneurship in A Project for Companies

Avram Tripon

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