



GEORGE EMIL PALADE  
UNIVERSITY OF MEDICINE,  
PHARMACY, SCIENCE, AND  
TECHNOLOGY OF TARGU MURES

Faculty of Engineering and  
Information Technology

The 17<sup>th</sup> International Conference

**INTER-ENG 2023**

**Interdisciplinarity in Engineering**



**2023**

**CONFERENCE PROGRAM**

“George Emil Palade” University of Medicine, Pharmacy, Science  
and Technology of Târgu Mureş  
Faculty of Engineering and Information Technology

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5 - 6 October 2023  
Târgu Mureş, Romania

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Călin AVRAM  
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## Conference Secretariat

Nicoleta SABĂU  
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## **Special Invited talk:**

### **Recent Advances of Harvesting Wind at High Altitudes (AWE)**

Ahmad Hably, PhD HDR, GIPSA-lab, Grenoble INP-UGA, Université Grenoble Alpes, France

### **Ecohydrology for Sustainability**

Joshua Zacharias - Chief Executive Officer Azomures Plant, Mureş, Romania

### **Data Driven Field Quality management @ Bosch**

Dirk Arnold - Senior Vice President, Robert Bosch GmbH, Stuttgart, Germany

### **Empowering education and research through innovative practices with Matlab & Simulink**

Dr. Ákos Koppány Kiss - Gamax Laboratory Solutions, Hungary

### **Opportunities and Challenges in Designing a Learning Factory**

Prof. dr. eng. Dan Centea – School of Engineering Practice and Technology, McMaster University, Hamilton, Ontario, Canada

### **Transformer models in natural language processing**

Prof. dr. habil. László Kovács Department of Information Technology, University of Miskolc, Hungary

### **Risk management and crisis response in higher education in the Digital Era**

Prof. dr. eng. Abdelazim M. Negm - Water and Water structures Engineering Department, Zagazig University, Egypt

### **Impact of Digitalization on Achievement Performance of SDGs**

Prof. Ahmed Hussein Ibrahim, PhD. - Zagazig University, Egypt

## **Parallel Sessions**

**Thursday, October 5<sup>th</sup>; 14:00 – 19:00**

Location: A308, A208, A309, A214, A316 & On-line - Faculty of Engineering and Information Technology

**MAIA: Improving Medical Workflow and Image Processing, Evaluation with the Power of AI - Seminar on AI-based solution for X-ray imaging and the near future expanding to CT, mammography and MR.**

**Thursday, October 5<sup>th</sup>; 14:15 – 15:00**

Aula Magna – A200, Faculty of Engineering and Information Technology

**COALition - An approach to EUs energy Just Transition Plan**

**valorisation workshop on promoting innovation excellence in transformation of carbon based energy dependent regions to climate-neutral, thriving economies.**

**Friday, October 6<sup>th</sup>; 14:15 – 15:00**

A214, Faculty of Engineering and Information Technology

**Innovative Technologies, Advanced Manufacturing and Materials, Part 1**  
Room: A308 & Online – Faculty of Engineering and Information Technology  
Thursday, October 5<sup>th</sup> 2023; 14:00 – 16:20

**Session chairs:**

- Ildiko Peter – "George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Târgu Mureș, România  
Răzvan Cazacu – "George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Târgu Mureș, România  
Peti Ferenc – "George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Târgu Mureș, România

**Analysis of the Wear of Die Cut Knives Used in Flexographic Technology (61)**

Gabriela-Valeria Neamtu, Cristina Mohora, Dana Tilina, Emilia Balan

**Reuse of Construction Waste (132)**

Simona Stanca

**"Rebuilding History" with 3D Printing Models: the use of 3D Printing in History of Architecture and Reconstruction of Historical Buildings. A Study Case of the Main Building of UMFST Tg Mures, Romania (73)**

Georgeta Fodor, Mara Popescu

**Analyzing the Productivity and Costs Between 3D Printed Ceramic and CNC Machined Aluminium Wax Injection Tools in Lost Wax Casting (152)**

Liviu Dorin Pop, Sándor Dániel Májlath, Róbert Toth, Roland Nagy

**E2Zb Approximation of the Cylindrical Roller Optimal Profile to Increase the Performance of Rolling Bearings (80)**

Constantin Ursache, Florina Maria Șerdean, Lucian Tudose

**Contributions Regarding the Improvement of Working Conditions in A Welding Workshop (22)**

Alina Trifu, Dan Nitoi, Alina Maria Faladau, Oana Chivu, Anda Crangureanu

**Stress in the Strap of the Safety Belt with Accidental Burns (50)**

Ana Toderita(Satean), Eliza Chircan, Horatiu Teodorescu Draghicescu

**Rail Fastening Maintenance Impact on Track Stability For Continuously Welded Rail Tracks (74)**

Madalina Ciotlaus, Vladimir Marusceac, Alexandra Denisa Danciu, Mihai Dragomir

**Constructive Solution and Mounting Technology For Two Pedestrian Walkways Over the Someş River (21)**

Mircea Suciu, Ionuț Iacob Chindriș, Tudor Hoda

**Efficiency of Silica Fume and Fly Ash in Road Concrete (57)**

Bogdan Luca, Marinela Barbuta, Alexandru Pantiru

**Mechanical Properties of Lightweight Concrete with Saw Dust Waste (44)**

Adrian Morariu, Alexandru Pantiru, Gabriel Bejan, Marinela Barbuta, Sorin Elisei, Raluca Rosu

**Study on the Frost-Thaw Behavior of Self Compacting Concrete with Fly Ash and Ceramic Powder (45)**

Vlad Constantin Panaite, Marinela Barbuta, Sabina Scripca, Livia Diaconu

**Multiple Linear Regression Model to Predict Compressive Strength of Concrete with Silica Fume and Metallic Fibers (67)**

Sabina Scripca, Marinela Barbuta, Adina Rusu

**Dynamic Response Analysis of Footbridges on Hot-Rolled Steel Girders for Spans Varying Between 10 to 40M and Width Between 2 and 6 M (76)**

Alexandra Denisa Danciu, Catalin Moga, Stefan Gutiu, Vladimir Marusceac, Madalina Ciotlaus, Mihai Liviu Dragomir

**Need For Textile Waste Decontamination in a Post-Pandemic Environment (77)**

Alexandra Bodoga, Andreea Nistorac, Maria Carmen Loghin

**Medium-Term Mechanical Properties of Cement Mortar Modified with Bentonite Nanoparticles (60)**

Georgiana Bunea, Ionuț-Ovidiu Toma, Sergiu-Mihai Alexa-Stratulat, Nicanor Cimpoeșu, Petru Mihai

**Innovative Technologies, Advanced Manufacturing and Materials, Part 2**  
**Room: A308 & Online – Faculty of Engineering and Information Technology**  
**Thursday, October 5<sup>th</sup> 2023; 16:30 – 19:00**

**Session chairs:**

- Ildiko Peter – "George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Târgu Mureș, România  
Răzvan Cazacu – "George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Târgu Mureș, România  
Peti Ferenc – "George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Târgu Mureș, România

**Evaluation of Aa 7075-T6 Alloy'S Corrosion Behavior Using Salt Spray Test (7)**

Fatima Ezzohra El Garchani, Rachid Kabiri

**Stress Corrosion of Aa2024 Aluminium Alloy: Effects of Shot Peening in Sodium Chloride Solution (8)**

Fatima Ezzohra El Garchani, Rachid Kabiri

**Effect of Foam Thickness on Two-Wheeler Seat in View of Seat Height Adjustment and Vibration Damping (109)**

Vishwanath Mali, Ajit Bhosale

**An Investigation Into the Effect of Firing Temperature on the Physical and Thermal Properties of Clay Bricks: A Comparative Study of Four Distinct Clay Varieties (64)**

Walid Abouloifa, Mohammed Ettaki, Sanaa Hayani Mounir

**Impact of Organic Ingredients on the Frictional Performance of NAO Brake Pad (112)**

Mitali Gore, Ajit Bhosale, Mithul Naidu

**Free Vibration Analysis of Orthotropic Thin Rectangular Plates (85)**

Maria Violeta Guiman, Mariana Domnica Stanciu, Vasile Ghiorghe Gliga, Silviu Marian Nastac, Adriana Savin

**The Study of the Front Safety Belt Webbing with Defects From Cuts (52)**

Ana Toderita(Satean), Eliza Chircan, Omar Shrrat Abulah Omar



**Effects of Cutting Parameters on Surface Roughness and Flank Wear in Face Turning of Inconel 718 (146)**

Enes Usluer, Özgür İrfan, Alper Uysal, Ruslan Dzhemalyadinov, Eshreb Dzhemilov

**Dynamics of Fine Boring of Intermittent Surfaces (120)**

Anna Balaniuk, Gennadiy Oborskyi, Alexandr Orgiyan, Vladimir Tonkonogyi, Predrag Dašić

**Optimization of the Processes of Operation of Basalt Plastic Friction Unit (147)**

Olexander Yeromenko, Yekaterina Yeriomina, Anna-Mariia Tomina, Predrag Dašić

**Sound Absorption Characteristics of Orthotropic Porous Materials (87)**

Maria Violeta Guiman, Ioan Calin Roșca, Silviu Marian Nastac, Sergiu Valeriu Georgescu, Mariana Domnica Stanciu

**Mechanical Characteristics of Green Concretes with Marble Waste (42)**

Tawfiq Mowaffak, Vlad Panaite, Marinela Barbuta, Adina Rusu

**Natural and Fe(II)-Modified Zeolite As An Efficient Adsorbent of the Heavy Metals Ions From Contaminated Aqueous Solution (141)**

Milan Kragović, Jelena Gulicovski, Sonja Milićević, Snežana Pašalić, Predrag Dašić, Ivica Ristović, Marija Stojmenović

**Elements of the Structure of Principal Schemes of Processes That Run in Heterogeneous Mediums (144)**

Volodymyr Tonkonogyi, Tetiana Lysenko, Maryna Holofieieva, Liubov Bovnegra, Yurii Holofieiev

**Medical Engineering and Innovative Solutions for the Healthcare System**  
Room: A208 & Online – Faculty of Engineering and Information Technology  
Thursday, October 5<sup>th</sup> 2023; 14:00 – 15:50

**Session chairs:**

- Sorina Moica – "George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Târgu Mureș, România  
Cristina Vereș – "George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Târgu Mureș, România  
Mihaela Bucur – "George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Târgu Mureș, România

**Modern Tools For Orthopedics-Traumatology Department Sustainability Assessment (35)**  
Flaviu Moldovan, Tiberiu Bataga

**A New Innovative Method of Evaluating Orthopedics-Traumatology Medical Practices (36)**  
Flaviu Moldovan, Tiberiu Bataga

**Digitalization of Work and Its Impact on Worker Safety and Health (54)**  
Adriana Milea

**Unveiling Managerial Perspectives on the Essential Role of Lean Implementation in Romanian Healthcare (84)**  
Cristina Veres, Miklos-Marius Veres, Flaviana Rotaru

**Motor Control Disorders (Balance and Coordination) Among Older People: A Systematic Review with the Assistance of Endnote Reference Management Software (126)**  
Dan-Alexandru Szabo, Nicolae Neagu, Miruna Maria Bunea, Cristina Veres

**A New Quality Assurance Standard For the Exploitation of the Phoenix Mk1 Exoskeleton (130)**  
Liviu Cristian Chis, Monica Chis, Flaviu Moldovan, Liviu Moldovan

**New Approaches in Medical Rehabilitation: A Literature Review on the Use and Importance of Technology in Rehabilitation (138)**  
Dan-Alexandru Szabo, Cristina Veres, Carmen Pârnu, Hunor Tamas Gyurka, Andi Stoica, Vlad Cârțală, Nicolae Neagu

**Analysis, Efficiency Methods and Results of the Use of Funds For the Financing of Smes in the Braşov Medical Industry (56)**

Nicoleta Stelea, Calefariu Gavrilă

**Sustainability in the Global Pharmaceutical Industry From the Perspective of Several Researchers (72)**

Laura-Crina Coca, Marius Pislaru

**Work Posture Impact on Musculoskeletal Pain of Romanian Dentists (71)**

Adrian Robert Suciu, Adrian Dumitru Draghici, Angela Repanovici, Horia Pantea, Ileana Pantea

**A 3D-Printed Functional Knee Orthosis For Daily Activities (20)**

Constantin Torcătoru, Alexandru Tulica

**Medical Engineering Issues in Robotic Chest Compression Resuscitation of the Mechanically Ventilated Patient (70)**

Adrian Dumitru Drăghici, Angela Repanovici

## **Management and Quality Control**

**Room: A208 & Online – Faculty of Engineering and Information Technology  
Thursday, October 5<sup>th</sup> 2023; 16:00 – 19:00**

### **Session chairs:**

- Sorina Moica – "George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Târgu Mureș, România  
Cristina Vereș – "George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Târgu Mureș, România  
Mihaela Bucur – "George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Târgu Mureș, România

### **A Sociological Approach to the Autonomous Vehicle Industry. Parameters of Social Structure (19)**

Ciprian Sorin Vlad, Iulia Ioana Mircea, Timea Cisma, Larisa Ivașcu, Marius Pîslaru

### **A Statistical Method For Improving the Quality of Electronic Products in the Automotive Industry (25)**

Sergiu Adrian Ogorean, Liviu Moldovan

### **Improving Process, Ergonomics and Product Quality with Collaborative Robots Through Zero Manufacturing Change Time (26)**

Vasile Gusan, Aurel Mihail Țițu

### **Contributions to Improving Quality Management of Execution Processes to Ensure Collaboration Between Local and Area Service Providers (31)**

Aurel Mihail Titu, Dorin Vasile Deac Suteu, Marius Ioan Toderici

### **New Organizational Business Models Adapted to Inclusive Innovation (33)**

Liviu Moldovan

### **Inclusive Innovation and Inclusive Growth Tools For Eliminating the Gaps Created By Economic Growth (34)**

Liviu Moldovan

**Analysis of Defects in Quality Management in A Company From the Automotive Industry (91)**

Petruta Blaga

**Evaluation of the Effectiveness of the Actions Implemented in the Treatment of Defects in A Company in the Automotive Industry (92)**

Petruta Blaga

**Reducing Quality Costs by Using Game Theory (49)**

Eugenia Alina Roman, Vasile Dragu

**Aspects Regarding the Ergonomic Design of Workstations in the Automotive Manufacturing Industry (119)**

Bianca-Mihaela Cășeriu, Petruța Blaga

**Benchmark Between Iaq Measuring Devices (166)**

Adrian Dalalau Rus, Mihaela Bucur

**Influence of Information and Communication Technologies of Knowledge Economy Development (142)**

Olena Chukurna, Liubov Niekrasova, Olena Stanislavyk, Oleksandr Kovalenko, Glib Zadorozhko

**Conceptual Basis For the Formation of A Smart Eco-Industrial Parks As Benchmarking of Sustainable Manufacturing (145)**

Iryna Bashynska, Liubov Niekrasova, Volodymyr Osypov, Anastasia Dyskina, Lolita Zakharchenko

**Impacts of Simulation and Digital Tools on Supply Chain in Industry 4.0 (29)**

B.C. Chidozie, Ana Luísa Ramos, José Ferreira, Luis Pinto Ferreira

**Social Entrepreneurship: A Review of the Literature Based on Geographical and Thematic Criteria (89)**

Mohamed Es-Seqally, Mohamed Jallal El Adnani

**Simulating Product Costs Under Stochastic Conditions Using the Abc Matrix Model (98)**

Marcelo Henriques, Luís Dias, Paulo Afonso, Luís Pinto Ferreira

**Internal Logistics Process Improvement: A Case Study (111)**

Mariana Oliveira, José Ferreira

**Evaluation of the Efficiency of Products Packing in Additive Machine Workspace Based on Fractal Analysis (143)**

Yaroslav Garashchenko, Predrag Dašić, Zvonko Petrović

**Exploring the Productivity Enhancements of Integrated Generative Artificial Intelligence Chatbots on Romanian Entrepreneurial Environment (161)**

Alexandra Ioanid, Marian Leica

**Towards Maturity of Digital Transformation: Development of Digital Maturity Scorecard (163)**

Alexandra Ioanid, Dan Andrei Panduru, Cezar Scarlat

**Analytical and Simulation Models As Decision Support Tools For Supply Chain Optimization - An Empirical Study (97)**

Bernardine Chidozie, Ana Luísa Ramos, José Ferreira, Luís Pinto Ferreira

**Analysis and Improvement of Service Level: Practical Case in A Luxury Leather Goods Component Manufacturing Company (124)**

Ana Teixeira, José Ferreira

**Employment of Change Management Models in the Digital Transformation Process (155)**

Frida Lizbeth Ponce Pulido, Hamed Taherdoost

**The Implementation of a Performance Management System in the Banking Industry. Case study OTP Bank Romania (159)**

Alexandra Ioanid, Alexandru Cornel Oprea

**The Digitalization of EU Businesses in the Pandemic Context: Implications of the Manufacturing Sector (150)**

Emilia Herman

**Circular Economy and Education for Sustainable Manufacturing**  
**Room: A309 & Online – Faculty of Engineering and Information Technology**  
**Thursday, October 5<sup>th</sup> 2023; 14:00 – 15:50, 16:00 – 19:00**

**Session chairs:**

- Arina Modrea – "George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Târgu Mureș, România  
Emil Nuțiu – "George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Târgu Mureș, România  
Rozalia Gabor – "George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Târgu Mureș, România

**Study of Circular Economy Applied to Sustainable Agriculture: Analysis of Protein and Oil Content in Sunflower and Maize Crops (1)**

Argeime López Malest, Manuela Rozalia Gabor

**Effects of Using Leadership Tools in Automotive Industry (3)**

Sebastian Candea, Manuela Rozalia Gabor

**Effects of Using Kanban System in Automotive Industry (4)**

Sebastian Candea, Manuela Rozalia Gabor

**Critical Raw Material in Circular Economy Context For Europe: A Decision Tree and Two-Step Cluster Analysis Approach (5)**

Argeime López Malest, Manuela Rozalia Gabor

**Chemical Risk Assessment: Case Study in A Romanian Furniture Manufacturing Company (9)**

Roland Iosif Moraru, Gabriel Bujor Babut, Mihai Popescu-Stelea, Catalin Valentin Dregan, Florin Muresan

**Circular Economy: the Bridge Between Life Cycle Assessment and Competitive Advantages (10)**

Timea Cisma, Andrei Agache, Alexandra Coroian, Larisa Ivascu

**Environmental Management System - Case Study on Citizens' Perception of Pollution At the Level of Mureş County (17)**

Ioan-Bogdan Bacos, Alexandra Merutiu, Manuela Rozalia Gabor

**Timber Tracking Information System, A Real Necessity in Forest Protection and Sustainability. About Sumal 2.0, A Traceability Information System Used in Romania (62)**

Lucretia Dogaru

**Ethical Considerations in the Implementation and Usage of Large Language Models (81)**

Radu Stefan, Marian Mocan

**Testing the Quality of Filtered Drinking Water and Developing Technical Solutions to Improve It (125)**

Horea George Crisan, Florina Serdean, Florin Covaciu, Corina Birleanu, Marius Pustan, Oana Crisan

**Are Education Staff Given Due Recognition? Case Study in Romania (151)**

Maria-Ana Georgescu

**Delving Into Educators' Views on Vocational Education and Training (Vet): An In-Depth Study (153)**

Cristina Veres, Miklos-Marius Veres, Sorin Cristian Albu, Dan-Alexandru Szabo, Eduard Hirbu

**Quality Management in Romanian Cultural Institutions: A Comprehensive Analysis (154)**

Claudia Chibelean, Cristina Veres, Miklos Marius Veres, Daniela Stefanescu, Liviu Marian

**Navigating the Digital Frontier: Teacher Attitudes Towards AI in Language Education (160)**

Dana Rus, Irina Puşnei, Smaranda Ştefanovici

**Innovating Engineering Education: Using AI in Teaching Specialized Language (83)**

Dana Rus, Irina Puşnei

**The Transition of the Moroccan University to A Digital and Intelligent University: An Overview (15)**

Khaoula Benmoussa, Majida Laaziri, Abdelaziz El Alaoui El Amrani

**Intelligent System For the Professional Insertion of Graduates in the Moroccan Digital University (18)**

Majida Laaziri, Khaoula Benmoussa, Abdelaziz El Alaoui El Amrani



**Optimizing Urban Planning to Alleviate Noise Pollution in Different Types of Intersections  
A Case Study in Cluj-Napoca (65)**

Vladimir Marusceac, Madalina Ciotlaus, Alexandra Danciu, Mihai Liviu Dragomir

**Assessment of Last-Mile Delivery Methods in E-Commerce: A Case Study in Bucharest  
(75)**

Dorinela Costescu, Bianca-Cristiana Tanase

**Efficiency in Business-To-Business Communications: the Benefits of Visual Basic For  
Applications Macro Implementation For Repetitive Tasks (14)**

Constantin Torcătoru, Dan Săvescu

**Lifelong Learning in Romania (48)**

Florin Lungu, Bianca Pascu

**Developing Co2 Detection Sensor Competitive Design Based on the Voice of the  
Household Consumer (55)**

Sabina Potra, Lavinia Cernescu, Adrian Pugna, Carina Olenici

**Sustainability Project Steel Overpass in Ghyimes, Romania For Ski Slope and Summer  
Bobsled Track (66)**

Doina Negrea, Vladimir Marusceac

**Sustainability of Water Resources in Newly Reclamation Areas, Moghra Region,  
Northwestern Nile Delta, Egypt**

Asaad M. Armanuos, Mohammed I. Metwally, Ahmed Shalby, Sobhy R. Emara, Doaa E. El-Agha, Tamer A. Gado, Abdelazim Negm

**Boosting Swot Analysis with Eco-Innovation Capability to Integrate Systematic Eco-  
Leadership Development For Military Leaders (69)**

Mădălina-Ioana Bădilă, Lucian-Ionel Cioca

**The Impact of Artificial Intelligence on Human Resource Management: Opportunities and  
Challenges (156)**

Mitra Madanchian, Hamed Taherdoost

**Enhancing Human Resource Management with Artificial Intelligence: Opportunities,  
Challenges, and Best Practices (157)**

Mitra Madanchian, Michele Vincenti, Hamed Taherdoost

## **Power Systems, Energy Efficiency and Renewable Technologies**

**Room: A214 & Online – Faculty of Engineering and Information Technology**

**Thursday, October 5<sup>th</sup> 2023; 14:00 – 15:50 16:00 – 19:00**

### **Session chairs:**

Bogdan-Constantin Neagu – "Gheorge Asachi" Technical University of Iași, România

Cristian-Dragoș Dumitru – "George Emil Palade" University of Medicine, Pharmacy,  
Science and Technology of Târgu Mureș, România

Daniel Dragomir-Stanciu – "George Emil Palade" University of Medicine, Pharmacy,  
Science and Technology of Târgu Mureș, România

Adrian Gligor – "George Emil Palade" University of Medicine, Pharmacy, Science and  
Technology of Târgu Mureș, România

### **The History, Causes and Impact of A Blackout on Power Systems Around the World (148)**

**Nicolae-Daniel Fiță, Sorin-Mihai Radu, Sorina-Daniela Stănilă, Adriana Zamora, Florin Mureșan-Grecu, Gheorghe-Eugen Safta**

### **Technical Losses Estimation in Low Voltage Distribution Networks Using A Deterministic Based Approaches (127)**

Bogdan-Constantin Neagu, Gheorghe Grigoras, Ion Tristiu, Radu Porumb

### **Evaluating the Trend of Power Quality Indicators in the Electric Distribution Networks Using A Regression Models-Based Approach. Case Study in Romania (59)**

Bogdan Livadariu, Gheorghe Grigoras, Bogdan-Constantin Neagu

### **Risk Assessments in Terms of Occupational Health and Safety For 220 Kv Timișoara Power Substation (38)**

Florin Mureșan-Grecu, Nicolae-Daniel Fiță, Roland- Iosif Moraru

### **Research on the Assessment of the Operational Reliability of See Bihor 110 Kv (102)**

Daniel-Traian Albut-Dana, Mihnea Cîmpan

### **Study on Optimizing the Operating Configuration of Bihor Power System - 110 Kv (103)**

Mihnea Cîmpan, Daniel-Traian Albut-Dana

### **Solar Heat Storage Media For Low and Medium Power Applications – An Overview (168)**

Daniel Dragomir-Stanciu, Cristian Dragos Dumitru, Adrian Gligor

**Integration of Renewable Energy Sources Into Smart Grids: A Study on the Impact and Solutions For the Efficient Integration of Renewable Energy Sources, Such As Solar and Wind Energy, Into Existing Electrical Grids (164)**

Cristian Gorea, Dragoş-Lucian Chiorean, Ilie Vlăsa, Radu Porumb, Dorin Bica

**Electrical Grid Capability Evaluation in the Context of Prosumer Contribution Growth (165)**

Cristian-Dragoş Dumitru, Adrian Gligor, Cristian Gorea, Ilie Vlăsa, Claudiu-Iosif Damian

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## **Automation, Robotics, Biomedical Technologies and Intelligent Systems**

**Room: A316 & Online – Faculty of Engineering and Information Technology**

**Thursday, October 5<sup>th</sup> 2023; 14:00 – 15:50 16:00 – 19:00**

### **Session chairs:**

- Mircea Dulău – "George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Târgu Mureș, România  
Zoltán Germán-Salló – "George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Târgu Mureș, România  
Stelian-Emilian Oltean – "George Emil Palade" University of Medicine, Pharmacy, Science and Technology of Târgu Mureș, România  
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