

List 1

MANUSCRIPTS FROM CSD2021 SENT FOR PUBLICATION TO THE SECTIONS OF THE BULLETIN OF THE POLYTECHNIC INSTITUTE OF IAȘI (BIPI)

BIPI Section: **ELECTRICAL ENGINEERING. ENERGETICS. ELECTRONICS**

<http://www.bulipi-eee.tuiasi.ro>

Sent on: 29.03.2021

Editor: Prof. Cristian GYÖZÖ-HABA

Email: cristian-gyozo.haba@academic.tuiasi.ro

	Authors	Manuscript	Conference section
1.	Casian Miron, Laura Ioana Grigoras, Radu Ciucu, Vasile Manta	Eye Image Segmentation Method Based on the Modified U-Net CNN Architecture	Computers and information technology; Systems engineering
2.	Alexandru-Gabriel Tudorache, Vasile-Ion Manta, Simona Caraiman	Implementation of the Bernstein-Vazirani Quantum Algorithm using the Qiskit Framework	
3.	Otilia Zvorișteanu, Simona Caraiman, Vasile-Ion Manta	Towards real-time semantic instance segmentation	
4.	Ovidiu Pauca, Constantin-Florin Caruntu, Anca Maxim, Corneliu Lazar	Control Architecture For Automated Vehicles to Ensure Obstacle Avoidance	
5.	Narcisa-Daniela Ștefănescu	Evaluating the Performance of a Linear Model used in Regression	
6.	Dorin Boțoc, Adrian Pleșca	Heating Properties of Gadolinium Magnetocaloric Material under the influence of a Controlled Magnetic Field	Electrical engineering; Energy engineering; Electronic engineering,
7.	Dorin Boțoc, Adrian Pleșca	The Effect of Thermal Conductivity and the Cooling Capacity of the Materials	

8.	Dragos Murgoci , Maricel Adam	Prior Art Domain Study of the Synchronous Machine with Variable Geometry	telecommunications and information technology
9.	Alexandru Viorel Rusu , Gheorghe Livinț	Automated Method for Searching Optimal Solution in Street Lighting Design	
10.	George Cercel , Cosmin Tiganasu, Ciprian Nemes	Photovoltaic Panels Analysis Base on Simulink Tools	
11.	Eugen Hopulele , Mihai Gavrilas	Optimal Operation of a Trigeneration System Designed to Supply an Electricity, Heating and Cooling Consumer	
12.	Alexandru Kriukov , Mihai Gavrilas	Smart Charging of Multiple EVs in Smart Grid Radial Low Voltage Distribution Networks	
13.	Cosmin Tiganasu , George Cercel, Ciprian Nemes	An Overview of the Home Energy Management System	
14.	Vasile Grosu	Aspects Regarding Machine Learning Principles	
15.	Viorel-Stefan Savinescu , Ioan-Alexandru Nica, Liviu Goras	A Tunable 3 rd – Order Low – Pass Filter for ECG Acquisition Using Capacitance Multiplier	
16.	Ionut-Cristian Severin	System for Detecting the Transmission error Rate During Wi-Fi Communication with CC3220SF Launchpad	
17.	Noemi-Clara Rohatinovici , Valentina Emilia Bălaș, Octavian Proștean	A Short Overview on Networks	

BIPI section: **MATERIALS SCIENCE AND ENGINEERING**

<https://sim.tuiasi.ro/cercetare/publicatii/buletinul-institutului-politehnic-din-iasi-bipi/>

<https://sim.tuiasi.ro/wp-content/uploads/2022/03/Vol.-SIM-1-2-din-2021.pdf>

<https://sim.tuiasi.ro/wp-content/uploads/2022/03/Vol.-SIM-3-4-din-2021.pdf>

Sent on: 24/03/2021

Editor: Prof. Gheorghe Bădăraș

Email: gheorghe.badarau@academic.tuiasi.ro

	Authors	Manuscript	Conference section
1.	Roxana Nastasă , Corneliu Munteanu, Bogdan Istrate	Recent Research ON Mg-Based Biodegradable Alloys-Review	Mechanical engineering; Industrial engineering; Materials

2.	Raul George Ciubotariu , Dan Eliezer, Corneliu Munteanu, Bogdan Istrate	Application of Hollow Glass Fibers Structures as High Pressure Storage System for Hydrogen	engineering; Engineering and management
3.	Cornelia Cîrlan Paleu , Corneliu Munteanu, Anișoara Dascălu, Viorel Paleu	Failure Modes of Pumps' Mechanical Parts and Coating Solutions for Wear Problems	
4.	Andrei Ratoi , Dan Eliezer, Corneliu Munteanu	A Combined Materials Science and Mechanical Approach to the Study of Hydrogen Embrittlement of Structural Materials	
5.	Elena Ionela Chereches , Marius Ionut Chereches, Alina Adriana Minea	Analysis of the Operating Behavior of Some Mixtures: Water, Ionic Liquid, Nanoparticles	
6.	Marius Ionut Chereches , Elena Ionela Chereches And Alina Adriana Minea	Studies on Phase Change Materials Improved with Nanoparticles	
7.	Dragoș-Stefan Gherghescu	Traditional Techniques and Natural Construction Materials in Romania	

BIPI Section: **CHEMISTRY AND CHEMICAL ENGINEERING**

<http://www.bipic.icpm.tuiasi.ro/>

Sent on: 23.03.2021

Editor: Lecturer Gabriela Apostolescu

E-mail: gabriela-antoaneta.apostolescu@academic.tuiasi.ro

	Authors	Manuscript	Conference section
1.	Victoria Bejenari , Mirela-Anastasia Moraraș, Maricel Danu, Constanta Ibanescu, Gabriela Lisa	Physico-Chemical Characterization of Arabica and Robusta Spent Coffee Blends	Chemistry; Chemical engineering; Environmental engineering
2.	Iolanda Fusteș-Dămoc , Cătălina Anișoara Peptu, Teodor Măluțan	Thiolated Chitosan for Biomedical Application	
3.	Andreea Mihăilă , Cătălin Lisa, Ioan Mămăligă, Gabriela Lisa	Evaluation of the Drying Process of Some Varnishes and Paints Applied on Fir Wood	

4.	Cristina Carmen Stingu (Palici) , Valentin Nedeff, Ion Sandu, Viorica Vasilache, Mihaela Orlanda Antonovici (Munteanu)	The Impact of Climate Change on the Natural Reservation „Poiana Cu Schit” from Iasi County	
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BIPI Section: **CONSTRUCTIONS and ARCHITECTURE**

<http://www.bipcons.ce.tuiasi.ro/>

Sent on: 24.03.2021

Editor: Lecturer Ionut Ovidiu Toma

E-mail: ionut-ovidiu.toma@academic.tuiasi.ro

	Authors	Manuscript	Conference section
1.	Ionut-Cristian Branca	Considerations on Solutions for Heating and Cooling of Cult Buildings	Civil engineering and installations
2.	Marius Brănoaea , Andrei Burlacu	A Review on the Energy Performance and Efficiency of Radiant Floor Heating Systems with Integrated Phase Change Materials	
3.	Alexandra Cojocar , Dorina Nicolina Isopescu	Passive Strategies of Vernacular Architecture for Energy Efficiency	
4.	Dumitru-Dragos Hanganu	Notes About Crushing Sand from Bituminous Schist	
5.	Patrick Heinemann , Dorina Isopescu, Sebastian Maxineasa	Case Studies on Finite Element Modeling of Welded Joints	
6.	Dana–Ramona Nanea	Notes about BF Sludge as a Potential Use as Filler in Asphalt Mixture Composition	
7.	Andreea Elena Nantu , Ștefan Filip Ursaciuc	Risk Assessment of Accidents and Occupational Diseases on Construction Site	
8.	Alexandra Pamfil , Petru Mihai	Compression Resistance of Concrete	
9.	Radu Rusu , Andrei Bejușcă, Ion Șerbănoiu	The Importance of Entrepreneurial Management in the Civil Construction Branch	
10.	Cătălin Sbîrlea , Dorina Nicolina Isopescu	Autonomous Processes in Concrete Matrix on bio Products	

11.	Robert Ștefan Vizitiu	Experimental Investigation on the Optimum Filling Ratio of Heat Pipes used for Heat Recovery Systems	
12.	Ionuț Dohotariu	Adaptive Architecture – A Beneficial Interaction with Technology	

BIPI Section: **HYDROTECHNICS**

Sent on: 23.03.2021

Editor: Prof. Gabriela Biali

E-mail: gabriela.biali@academic.tuiasi.ro

	Authors	Manuscript	Conference section
1.	Ioana Agapie (Mereuță), Mihail Luca, Paul Marian Gherasim	Research on the Monitoring of Earth Dams with GNSS Technology	Civil engineering and installations
2.	Andrei Berindean, Alexandru Topolniceanu, Anca Danila	Aspects Regarding the Special Tracking of the Dams	
3.	Andrada-Ionela Bucatariu, Gilda Gavrilăș	Measures of Sustainable Development of Water Supply Systems	
4.	Magdalena Chearu (Șârbu)	Theoretical Analyzes Regarding Groundwater Movement	
5.	Gabriela Dorin, Florian Stătescu	Study of the Hydraulic Characteristics of the Soil	
6.	Violeta Dominte (Croitoru), Mihail Luca	Considerations on Floods in the Prut Bârlad Basin	
7.	Cozmin Drăgoi Chislingher, Mihail Luca	Considerations on Surface Water Pollution in Romania	
8.	Anamaria Jijian, Mihai Dima	The Importance of Ecological Education at Academic Level in Regards to the Environmental Quality Protection	
9.	Ioan-Corneliu Marțincu, Anca Dănilă, Raluca Giurma-Handley	Watershed Delineation in Flat Urban Areas using GIS Techniques	
10.	Clarisa Paraschivescu, Ciprian Vorovei, Raluca Catrinel Giurma-Handley	Probabilistic Methods for Determining Flood Waves	
11.	Cosmin Marian Paerele, Clarisa Paraschivescu, Marius Telișcă, Catrinel Raluca Giurma-Handley	Analysis of Torrential Rainfall and Automatic Monitoring of the Rainfall Regime in the Catchment of the Slanic River, Bacău County	
12.	Costel-Cătălin Prăjanu, Florian Stătescu, Daniel Toma, Cristina-Mihaela Vîrlan (Toma)	The Dissolved Oxygen Concentration (DO) from an A2/O Bioreactor Supplied with Counter Current Oxygen	

13.	Paul Vivian Sion, Mihail Luca	Ecological State Considerations of the Moldova River in the Cordun Area	
14.	Ștefan - Andrei Sticea, Mihail Luca	Studies and Research on Water Losses from Irrigation Systems	
15.	Ionuț-Emilian Todirică, Raluca Giurma-Handley	Pressure Management for Leakage Reduction in Water Distribution Systems	
16.	Alina Maria Toma, Florian Stătescu	Considerations Regarding the Land Fund of the NE Region of Romania	
17.	Alexandru Topolniceanu, Ion Giurma, Andrei Berindean	Prevention and Flood Protection in Prut River Basin, through the Implementation of a Modern Monitoring System with Automatic Stations	
18.	Cristina-Mihaela Vîrlan (Toma), Florian Stătescu, Daniel Toma, Costel-Cătălin Prăjanu	Analysis of Behaviour of the Water Supply System in Iași City	
19.	Andrei-Vladuț Vlasie	Urban Flood Management	

BIPI Section: **MACHINE MANUFACTURING**

<https://cmmi.tuiasi.ro/tome-67-71-number-2-2021/>

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Editors:

Prof. Aristotel Popescu

E-mail: aristotel.popescu@academic.tuiasi.ro

Prof. Radu Ibanescu

E-mail: radu.ibanescu@academic.tuiasi.ro

	Authors	Manuscript	Conference section
1.	Adrian Câcu, Eugen Purice, Laurențiu Larco	Lean Concept Disambiguation Using Taxonomy Approach	Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management
2.	Corneliu-Daniel Ghiorghe, Doru Călărașu	Aspects Concerning the use of Magnetoreological Fluids in Construction of Shock Absorbers	
3.	Diana Petronela Bistriceanu, Carmen Bujoreanu	Experimental Investigation on Assembly Process for High Pressure Injection Pump Components	

4.	Răzvan-Constantin Iordache , Carmen Bujoreanu	Fractures Analysis in High-Pressure Pumps	
5.	Victor Stajilov , Carmen Bujoreanu	Survey on Regenerative Braking in Electrical and Hybrid Vehicles	
6.	Aida Maria Vranău , Carmen Bujoreanu, Vasile Caunii	Solutions for Reducing the Energy Consumed by the Automotive HVAC System	
7.	Vasile Ermolai , Alexandru Ionuț Irimia	Influence of Nozzle Parameters in 3D Printing under the Manufacturing Time	
8.	Andra-Teodora Nedelcu , Cătălin Faităr, Nicolae Buzbuchi, Liviu Stan	Study Simulation of Umbilical Cable for Underwater Vehicle	
9.	Stefan Sorin	Operation of the pumping system with rods	
10.	Robert-Gheorghe Vlădescu	Problems in Insuring Maintenance of Transport Systems of Fluid Hydrocarbons through Metal Pipes	
11.	Robert-Gheorghe Vlădescu	Methods of Carrying out the Anticipative Maintenance of Fluid Hydrocarbons Transport Systems	

BIPI Section: **TEXTILES – LEATHER**

Sent on: 24.03.2021

Prof. Luminița CIOBANU

E-mail: luminita.ciobanu@academic.tuiasi.ro

	Authors	Manuscript	Conference section
1.	Carmen-Melania Blejan , Antonela Curteza	Researches on the Integration of Aesthetic Perception and Ergonomic Design of Women 'S Clothing	Mechanical engineering; Industrial engineering; Materials engineering; Engineering and management
2.	Victoria Bocancea , Carmen Loghin	The Impact of 3D Design Technologies on the Development of Made-to-Measure Clothing Products	
3.	Victoria Danila , Antonela Curteza	The Impact of Physical Development of Premature Babies on Designing Functional Clothes	
4.	Victoria Danila , Antonela Curteza	Study of the Equipment Used in the Neonatal Therapy Unit for the Development of Functional Clothing for Premature Babies	

5.	Cristina Grosu , Mirela Blaga	Human Body Vibration. Study about the Influence of Knitted Structures Parameters Against the Negative Effects of the Phenomenon	
6.	Bogdan-Alexandru Pântescu	Electronic Textiles as Potential Functional Products for People with Special Needs	
7.	Razvan Scarlat , Mirela Blaga	New Technological Solutions for Abdominal Wall Repair Invasive Medical Devices Development	
8.	Arina Seul , Aura Mihai, Antonela Curteza	Optimising the Footwear by Simulation and Evaluation of the Design Parameters	
9.	Eduard Ionuț Ștefan , Mirela Blaga	Intellectual Property Right Regarding Knitting Processes or Products	
10.	Diana-Roxana Viziteu (Tarași) , Antonela Curteza	Performance Characteristics of Apparel for Mountain Rescue Teams	
11.	Luminita Cristina Simion , Silvia Avasilcai	Industrial Evolutions Waves from 1.0 To 4.0- Similarities, Differences and Impact on Society and Human Labour Force	
12.	Liliana Aioanei , Mihaela Luminita Lupu	Research on the Management of the Pre-School Education Institutions in Romania in the Conditions of Decisional Autonomy	
13.	Ana-Maria Apetrei (Gulei)	The Importance of Unlearning for the New ilt Products Success in the Apparel Industry	
14.	Sebastian Bîrzu , Silvia Avasilcăi	A Brief History of Digital Marketing: The Evolution that Started in the 1980s	
15.	Bogdan Bologa	Mobility and Migration of Human Resources	
16.	Iulia Vasilica Costan , Ion Verzea	Sustainability Versus Sustainable Development in Literature Review	
17.		Management of Pre-School Education Institutions - Training and Increasing Staff Quality	
18.	Vasilica Damaschin , Mihaela Luminita Lupu	Management of Pre-School Education Institutions - Training and Increasing Staff Quality	
19.	Monica Jidoi (Toplicean) , Mihaela Luminita Lupu	Bibliographical Study Regarding the Research of Strategies, Recruitment, Selection and Integration of Employees in the Project Teams in The Realization of the Human Resources Management of the Projects, as Integrated Management in the Human Resources Management of Universities	
20.	Letiția C. Lucescu , Silvia Avasilcăi	Organizational Agility: Implications, Significance aAnd Paradox	
21.	Florin St. C. Mustata , Antonela Curteza	An Approach of Recycling Rubber Waste with Applications in Industry	

22.	Nicoleta Slabu, Mihaela Luminita Lupu	Bibliographic Study on the Use of Communication in Relation to the School Relationship - Coordinating Institutions	
23.	Mihaela Brîndușa Tudose, Silvia Avasilcăi	Advantages and Disadvantages of the Measuring Methods of the Organizational Performance. A Review	
24.	Cristian Vartolomei, Silvia Avasilcăi	Challenges of the Virtual Business Environment as a Result of Cyber-Attacks. The Role of Scientific Research in Combating Them	