

C1.2. Articole publicate în reviste indexate BDI - 2024

Nr.	Numele autorului/ autorilor	Titlul lucrării	Numele revistei	ISSN	Numarul volumului	Anul publicării	Paginile	Numele bazei de date	DOI
1	Barb-Ciorbea M.A.	Comparison Between an Exact and a Heuristic-Based Traveling Salesman Problem with Time Window Constraints	BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, sectia ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ	2537-2726	vol. 69	2024	99-112	Sciendo	10.2478/bipie-2023-0017
2	Axinte C.T.	A Methodology for the Synthesis and Evaluation of Hardware Accelerators	BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, sectia ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ	2537-2726	vol. 69	2024	91-100	sciendo	10.2478/bipie-2023-0011
3	Popovici C.A., Stan A., Manta V.I.	Domain-Specific FPGA-based Digital Acquisition System for Hardware Accelerators Integration	BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, sectia ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ	2537-2726	vol. 69	2024	101-132	sciendo	10.2478/bipie-2023-0012
4	Timis M.G., Valachi A.	Sequentially Triggering “Time-Bomb” Trojan into Hardware Wired Microsequencer	International Journal of Electrical Engineering and Computer Science	2769-2507	vol. 6	2024	92-97	EBSCO	10.37394/232027.2024.6.10
5	Lipovanu I.A., Pascal C., Caruntu C.F.	A Brief Overview of Federated Learning - A New Perspective on Data Privacy	BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, sectia ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ	2537-2726	vol. 68	2024	9-26	sciendo	10.2478/bipie-2022-0019
6	Militaru A.V., Bogdan I., Comsa C.R., Caruntu C.F.	Positioning Key Elements for Increasing Localization Precision of the VRUs in 5G NR Environments	BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, sectia ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ	2537-2726	vol. 68	2024	57-76	sciendo	10.2478/bipie-2022-0022
7	Lazar R.G., Caruntu C.F.	Comparative Analysis Between 4G LTE and 5G NR: An Evaluation of Cellular Communications For V2X Technology	BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, sectia ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ	2537-2726	vol. 69	2024	9-22	sciendo	10.2478/bipie-2023-0001
8	Apavaloaiei R.F., Achirei S.D.	Gamification of Post-Stroke Neuromotor Rehabilitation Exercises Using Hand Tracking In VR	BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, sectia ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ	2537-2726	vol. 69	2024	23-45	sciendo	10.2478/bipie-2023-0002
9	Chindrus A., Copot D., Caruntu C.F.	Comparison of Linear Quadratic Regulator and Model Predictive Control Based Algorithms in Continuous Production	BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, sectia ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ	2537-2726	vol. 69	2024	9-34	sciendo	10.2478/bipie-2023-0007
10	Chindrus C., Caruntu C.F.	Enhancing Cybersecurity Readiness Through the Red and Blue Team Competition	BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, sectia ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ	2537-2726	vol. 69	2024	35-56	sciendo	10.2478/bipie-2023-0008
11	Maxim A., Pauca O., Caruntu C.F.	Coalitional Control Algorithm for a Vehicle Platooning Application – A Selfish Approach	BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, sectia ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ	2537-2726	vol. 69	2024	39-65	sciendo	10.2478/bipie-2023-0014
12	Hustiu I.	Comparative Study for Path Planning Based on the Decomposition of a Co-Safe LTL Specification	BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, sectia ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ	2537-2726	vol. 69	2024	67-80	sciendo	10.2478/bipie-2023-0015
13	Botezatu A.P., Burlacu A.	A Short Review of Deep Learning Methods in Visual Servoing Systems	BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, sectia ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ	2537-2726	vol. 69	2024	113-136	sciendo	10.2478/bipie-2023-0018
14	Baciu A., Lazar C.	Comparative Performance Analysis of Intelligent PID Controllers for a Mechatronic System	BULETINUL INSTITUTULUI POLITEHNIC DIN IAȘI, sectia ELECTROTEHNICĂ. ENERGETICĂ. ELECTRONICĂ	2537-2726	vol. 69	2024	81-98	Sciendo	10.2478/bipie-2023-0016

C1.3. Articole în volume ale conferințelor indexate BDI - 2024

Nr.	Numele autorului/ autorilor	Titlul lucrării	Denumirea si tipul conferintei (nationale sau internationale)	ISBN/ ISSN	Anul publicarii	Paginile	Numele bazei de date
1	Barb-Ciorbea M.A., Kloetzer M., Mahulea C.	Planning strategy based on visibility graph and traveling salesman problem with time window constraints	28th International Conference on System Theory, Control and Computing (ICSTCC 2024) / internationala	979-8-3503-6429-3 / 2473-5698	2024	521-526	IEEExplore
2	Hustiu S., Iancu I.A., Brasoveanu F.A.	Integration of MITL for Cobots Workflow in a Manipulating Application	2024 IEEE 29th International Conference on Emerging Technologies and Factory Automation (ETFA)	979-8-3503-6123-0 / 1946-0759	2024		IEEExplore
3	Prisacariu A.M., Ferariu L.	Skin Cancer Diagnosis Using CNN with Attention Mechanism Based on Grad-CAM	28th International Conference on System Theory, Control and Computing (ICSTCC 2024) / internationala	979-8-3503-6429-3 / 2473-5698	2024		IEEExplore
4	Hobinca R.C., Ferariu L.	Colouring Grayscale Images Using Cycle-Generative-Adversarial Networks	28th International Conference on System Theory, Control and Computing (ICSTCC 2024) / internationala	979-8-3503-6429-3 / 2473-5698	2024		IEEExplore
5	Bejenar I., Ferariu L., Pascal C., Caruntu C.F.	FedBayes: An Aggregation Method for Federated Learning that uses Bayesian Regression	28th International Conference on System Theory, Control and Computing (ICSTCC 2024) / internationala	979-8-3503-6429-3 / 2473-5698	2024		IEEExplore
6	Matcovschi M., Apetrii M., Pastravanu O.	Comprehensive framework for polyhedral set invariance in continuous-time system dynamics	28th International Conference on System Theory, Control and Computing (ICSTCC 2024) / internationala	979-8-3503-6429-3 / 2473-5698	2024	349–354	IEEExplore
7	Hrib F.V., Iancu I.A., Dosoftoi C.C.	Digital Twin and Virtual Reality: A Co-simulation Environment for an Educational Hydraulic Workstation	17th International Conference on Development and Application Systems (DAS) / internationala	979-8-3503-4929-0	2024	42-47	IEEExplore
8	Alupoaei S.I., Caruntu C.F.	Enhancing Urban Cooperative Transportation Systems using the V2X-based MOSAIC Platform	16th International Symposium on Electronics and Telecommunications (ISETC 2024) / Internationala	979-8-3503-9085-8	2024	pp. 1-6	IEEExplore
9	Militaru A.V., Lazar R.G., Pascal C., Comsa C.R., Bogdan I., Caruntu C.F.	Validation of Real-world Measurements through Ray Tracing Simulation for 5G Urban Scenarios	16th International Symposium on Electronics and Telecommunications (ISETC 2024) / Internationala	979-8-3503-9085-8	2024	pp. 1-6	IEEExplore
10	Pauca O., Lazar R.G., Maxim A., Caruntu C.F.	Coalitional Control for Mobile Robots Formation in Logistic Applications	28th International Conference on System Theory, Control and Computing (ICSTCC 2024) / internationala	979-8-3503-6429-3 / 2473-5698	2024	pp. 451-456	IEEExplore
11	Maxim A., Pauca O., Lazar R.G., Amarandei C., Caruntu C.F.	Cloud-Based DMPC Simulation for Autonomous Mobile Robot Platooning	28th International Conference on System Theory, Control and Computing (ICSTCC 2024) / internationala	979-8-3503-6429-3 / 2473-5698	2024	pp. 32-37	IEEExplore
12	Beti I.A., Herghelegiu P.C., Amarandei C., Caruntu C.F.	Cloud Architectural Design for Image-based Vehicle Positioning in Traffic Management	28th International Conference on System Theory, Control and Computing (ICSTCC 2024) / internationala	979-8-3503-6429-3 / 2473-5698	2024	pp. 217-222	IEEExplore
13	Butincu C.N., Gavrilescu M.	CPU-GPU Parallelism Applied to Quality-Diversity Volume Rendering	28th International Conference on System Theory, Control and Computing (ICSTCC 2024) / internationala	979-8-3503-6429-3 / 2473-5698	2024	pp. 576-581	IEEExplore
14	Ciocan S.R., Butincu C.N.	Decentralized Blockchain-based Platform for Managing and Issuing Academic Certificates	28th International Conference on System Theory, Control and Computing (ICSTCC 2024) / internationala	979-8-3503-6429-3 / 2473-5698	2024	pp. 570-575	IEEExplore

15	Sarmasanu V.S., Butincu C.N., Manta V.I., Stoleru A.	Algorithmic approach for audio segmentation	28th International Conference on System Theory, Control and Computing (ICSTCC 2024) / internationala	979-8-3503-6429-3 / 2473-5698	2024	pp. 125-132	IEEEExplore
16	Popovici C.A., Stan A., Manta V.I.	RiscDaqExt – Digital Acquisition and Control RISC-V Extension	28th International Conference on System Theory, Control and Computing (ICSTCC 2024) / internationala	979-8-3503-6429-3 / 2473-5698	2024	582-587	IEEEExplore
17	Gavrilescu M.	Improved Perceptual Representation of Isosurfaces from Volume Data Using Curvature-based Features	28th International Conference on System Theory, Control and Computing (ICSTCC 2024) / internationala	979-8-3503-6429-3 / 2473-5698	2024	139-144	IEEEExplore
18	Uleru G.I., Hulea M., Ghassemlooy Z.	VLC with PV-Based Optical Receiver for Motion Tolerant Optical Axon	14th International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP 2024) / internationala	2835-9038	2024	195-198	IEEEExplore
19	Hulea M., Uleru G.I., Barleanu A., Younus O.I.	Enabling Self-Powered Analog Voice Communication with Photovoltaic Cells and Optical Wireless Links Communication	14th International Symposium on Communication Systems, Networks and Digital Signal Processing (CSNDSP 2024) / internationala	2835-9038	2024	648-651	IEEEExplore
20	Leon F.	Learning to Count with Cell Assemblies: A Neuro-Symbolic Approach	28th International Conference on System Theory, Control and Computing (ICSTCC 2024) / internationala	979-8-3503-6429-3 / 2473-5698	2024	1-7	IEEEExplore
21	Barbuta D.E., Alexandrescu A., Tarniceriu D., Gavrilă M.	Leveraging Blockchain to Enhance the Efficiency and Data Integrity of Systems Monitoring Drivers' Sobriety	23rd RoEduNet Conference: Networking in Education and Research (RoEduNet 2024) / internationala	2068-1038	2024	1-6	IEEEExplore
22	Barcan N.G., Alexandrescu A., Turcanu T.	Gamification of the Learning Process for Acquiring Logical Thinking in Programming	23rd RoEduNet Conference: Networking in Education and Research (RoEduNet 2024) / internationala	2068-1038	2024	1-6	IEEEExplore
23	Agapie O., Alexandrescu A., Turcanu D.	Cloud-Based Distributed Solution for Optimizing the Search for Tourist Destinations	23rd RoEduNet Conference: Networking in Education and Research (RoEduNet 2024) / internationala	2068-1038	2024	1-6	IEEEExplore
24	Rusu I.E., Alexandrescu A.	Travel Planning Optimization System Employing Genetic Algorithms with Multiple Parameters	28th International Conference on System Theory, Control and Computing (ICSTCC 2024) / internationala	979-8-3503-6429-3 / 2473-5698	2024	264-269	IEEEExplore
25	Barbuta D.E., Alexandrescu A.	A Secure Real Estate Transaction Framework Based on Blockchain Technology and Dynamic Non-Fungible Tokens	28th International Conference on System Theory, Control and Computing (ICSTCC 2024) / internationala	979-8-3503-6429-3 / 2473-5698	2024	558-563	IEEEExplore
26	Gavrila M., Fotache M., Barbuta D.E., Alexandrescu A., Murariu M.G., Tarniceriu D., Ambrozie R.E.	Sensor Data Analysis in a Real-Time IoT and Blockchain-Based System for Monitoring Driver Alcohol Levels	16th International Symposium on Electronics and Telecommunications (ISETC 2024) / Internationala	979-8-3503-9085-8	2024	1-6	IEEEExplore
27	Gavrila M., Murariu M.G., Barbuta D.E., Mihailescu E., Tarniceriu D.	Enhancing driver safety through a data collection platform	16th International Conference on Electronics, Computers and Artificial Intelligence (ECAI 2024) / internationala	979-8-3503-7115-4	2024	1-8	IEEEExplore
28	Gavrila M., Murariu M.G., Barbuta D.E., Tarniceriu D.	Development of a modular sensor battery integrated with a data collection platform for alcohol level detection and driver geolocation	15th International Conference on Communications (COMM 2024) / internationala	1938-1883	2024	1-6	IEEEExplore
29	Piseru T., Piseru E.A., Roman A.I., Ionascu R., Poboroniuc M.S., Miron A.	Advancing Towards Clinical Validation of an Innovative System for Restoring Upper Limb Control in Individuals with Neurological Disorders	17th International Conference on Development and Application Systems (DAS 2024) / Internationala	979-8-3503-4929-0	2024	168-175	IEEEExplore

30	Piseru T., Piseru E.A., Roman A.I., Ionascu R., Poboroniuc M.S., Miron A.	Revolutionizing Upper Limb Motor Control Restoration: A Novel EMG-Based Feedback System for Individuals with Neurological Diseases	17th International Conference on Development and Application Systems (DAS 2024) / Internationala	979-8-3503-4929-0	2024	160-167	IEEExplore
31	Baciu A., Lazar C.	Model-Free Adaptive Pitch Control for a Nonlinear Aerospace Laboratory Equipment	28th International Conference on System Theory, Control and Computing (ICSTCC 2024) / internationala	979-8-3503-6429-3 / 2473-5698	2024	212-216	IEEExplore
32	Costin M., Lazar C.	Cascaded Predictive Speed Control and Load Torque Rejection of PMSM	28th International Conference on System Theory, Control and Computing (ICSTCC 2024) / internationala	979-8-3503-6429-3 / 2473-5698	2024	200-205	IEEExplore