C1.2. Articole publicate în reviste indexate BDI - 2025

Nr.	Numele autorului/ autorilor	Titlul lucrarii	Numele revistei	ISSN	Numarul volumului	Anul publicarii	Interval pagini	Numele bazei de date	DOI
1	Huștiu I.	Comparative Study for Path Planning Based on the Decomposition of a Co-Safe LTL Specification	Bulletin of the Polytechnic Institute of Iași. Electrical Engineering, Power Engineering	2537-2726	63	2023	67-80	Sciendo	10.2478/bipie-2023-0015
2	Grigore G.M., A. Valachi	Asynchronous Digital System Architecture and FPGA Implementation	International Journal of Electrical Engineering and Computer Science	2769-2507	24	2025	289-297	SCOPUS, INDEX COPERNICUS	10.37394/232027.2024.6.10

C1.3. Articole în volume ale conferințelor indexate BDI - 2025

Nr.	Numele autorului/ autorilor	Titlul lucrarii	Denumirea si tipul conferintei (nationala sau internationala)	ISBN/ ISSN	Anul publicarii	Interval pagini	Numele bazei de date
1	Iancu A., M. Kloetzer, C. Mahulea, C. Dosoftei	Smooth path planning with safety margins using Piece-Wise Bezier curves	30th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA) / internationala	979-8-3315-5383-8 / 1946-0759	2025	1-4	IEEE Xplore
2	Hustiu I., M. Kloetzer, C. Mahulea	Decomposition of LTL specifications via formal concurrency relations in Büchi automata	30th IEEE International Conference on Emerging Technologies and Factory Automation (ETFA) / internationala	979-8-3315-5383-8 / 1946-0759	2025	1-4	IEEE Xplore
3	Nechifor I.-S; C.-A. Lupascu	Specialized Convolutional Neural Network Architecture in Brain Tumor Diagnosis	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9621-7/2473-5698	2025		IEEE Xplore
4	Macovei M.-I.; C.-A. Lupascu	Novel Convolutional Neural Network Architecture for Mental Disorder Classification	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9621-7/2473-5698	2025		IEEE Xplore
5	Costin I.A., M., Letitia	Sign Language Detection Using Deep Learning	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9621-7/2473-5698	2025	136 - 141	IEEE Xplore
6	Roman B.-G.;A.-A. Toader;F.-A. Brasoveanu;S. Hustiu	BiSpiral: A Geometric Approach to Convex Surfaces Coverage	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9621-7/2473-5698	2025	278-283	IEEE Xplore
7	Chindrus C., C.F. Caruntu	Optimizing HTTP Traffic Classification in Web Application Firewalls: A Comparative Analysis of Random Forest and SVM	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-7343-0 / 2379-0482	2025	163-168	IEEE Xplore
8	Cocut G.M., F.C. Braescu, C.F. Caruntu	Real-Time Image Processing Algorithm for Enhanced Control of Lab-Scale Autonomous Vehicles	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-7343-0 / 2379-0482	2025	54-59	IEEE Xplore
9	Pauca G.S., C.F. Caruntu	Nonlinear Model Predictive Control for Vehicle Dynamics with Optimized Velocity Profile	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-7343-0 / 2379-0482	2025	19-24	IEEE Xplore
10	Beti I.A., P.C. Herghelegiu, C.F. Caruntu	Enhanced Frame-Matching Algorithm for Image-Based Vehicle Positioning Using Segmented Regions of Interest	9th International Conference on Control, Automation and Diagnosis (ICCAD) / internationala	979-8-3315-1191-3 / 2767-9896	2025	-	IEEE Xplore
11	Pauca G.S., L. Mirea, C.F. Caruntu	Adaptive MPC with Online Weight Tuning using Neural Networks	9th International Conference on Control, Automation and Diagnosis (ICCAD) / internationala	979-8-3315-1191-3 / 2767-9896	2025	-	IEEE Xplore
12	Enea C.A., A. Maxim, C.F. Caruntu	Decentralized Model Predictive Control Algorithm for a Drinking Water Network System	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9621-7 / 2473-5698	2025	576-581	IEEE Xplore
13	Chindrus C., C.F. Caruntu	Improving WAF Performance With Advanced ML Models: From RNN to GRU and LSTM	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9621-7 / 2473-5698	2025	117-122	IEEE Xplore
14	Cocut G.M., A. Maxim, C.F. Caruntu	Distributed Predictive Control of Vehicle Platoons Under Reduced Visibility With Delay Compensation: A Fog-Specific Approach	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9621-7 / 2473-5698	2025	582-587	IEEE Xplore
15	Lazar R.G., O. Pauca, C.F. Caruntu,	Real-Time Communication Framework for Connected Robots: Testing and Validation of Control Algorithms	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9621-7 / 2473-5698	2025	99-104	IEEE Xplore
16	Ciobanu T.C., O.C. Chioaru, G. Maties, L. Mirea, C.F. Caruntu	Underbrake Fault Detection in Automotive Systems using Advanced Neural Network Architectures	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9621-7 / 2473-5698	2025	367-372	IEEE Xplore
17	Bejan R., L. Ferariu	3D-CNNs Using Magnetoencephalography Spectral Data for Diagnosis of Parkinson's Disease	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	2473-5698	2025		IEEE Xplore
18	Tonu S., L. Ferariu	Deep Models With and Without Early Fusion For Automatic Lip Reading	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	2473-5698	2025		IEEE Xplore

19	Mariciuc A., L. Ferariu	Evaluating Latent Space Modeling in BiLSTM Autoencoders for Time Series Anomaly Detection	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	2473-5698	2025		IEEE Xplore
20	Aron M., L. Ferariu	Semi-Supervised Learning Using Self-labelling and Consistency Regularisation for ECG Classification	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	2473-5698	2025		IEEE Xplore
21	Pateli A., A. Ekart, M. Chli, L. Ferariu, J. Hamilton, M. Kanyi, R. Lee, P. Lewis, J. Lumsden, S. Owen	Sustainable Urban Mobility: Co-Designing a Responsible AI Recommender System	ACM 5th International Conference on Information Technology for Social Good / internationala		2025		ACM
22	Botezatu A.P., A. Burlacu	CNN-Based Early Fusion with Intensity Features for Road Surface Classification	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9622-4	2025	111-116	IEEE Xplore
23	Cobuz N., I. Sopon, P.A. Botezatu, F.A. Brasoveanu, A. Burlacu	Digital Twin-Based Architecture for Efficiency and Safety Enhancement in Dynamic Workspaces	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9622-4	2025	272-277	IEEE Xplore
24	Serebrenschii A, A. Burlacu	Reinforcement Learning-Driven Control Architecture for Mobile Manipulation Robots	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9622-4	2025	105-110	IEEE Xplore
25	Brasoveanu F.A., M. Hulea M, A. Burlacu	A SNN-Based Approach to Bending Control of a Hybrid Soft Actuator	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9622-4	2025	266-271	IEEE Xplore
26	Pastravanu O., M. Voicu, M.-H. Matcovschi	Self-learning Policy for Structurally Stable Regulation	25th IEEE International Conference on Control Systems and Computer Science (CSCS), internationala	2379-0474	2025	pp. 129-135	IEEE Xplore
27	Matcovschi M.-H., O. Pastravanu	On Strong Stability of Discrete- and Continuous-Time Linear Systems	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	2372-1618	2025	pp. 474-479	IEEE Xplore
28	Antonin I.; O. Zvoristeanu; S.-D.l Achirei	Edge AI on Obsolete Hardware: Fully Local Emotion Recognition on the NAO Robot	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	2473-5698	2025	318-323	IEEE Xplore
29	Agape I., B.-C. Apostol, O. Zvoristeanu, S.-D. Achirei, E.-C. Maftei	Adapted Cover-Separable Fixed Neural Network Steganography With Multi-Receiver Support	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	2473-5698	2025	643-648	IEEE Xplore
30	Roman E.-C., R.-A. Colibaba, O. Zvoristeanu, S.-D. Achirei	Real-Time Fatigue and Attention Assessment Via Eye Tracking	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	2473-5698	2025	756-761	IEEE Xplore
31	Apostol V.-I., D.-E. Lupu, S.-D. Achirei, O. Zvoristeanu	A Comprehensive Approach to Accurate Anthropometric Data Acquisition	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	2473-5698	2025	750-755	IEEE Xplore
32	Teslaru V., G.Pojoga, S.-D. Achirei	Fine-Tuning Vision Language Models for Medical Visual Question Answering	E-Health and Bioengineering Conference (EHB) / internationala	TBD	2025	TBD	
33	Gorghe T., M.-G. Fodor,S.-D. Achirei, O. Zvoristeanu	Predicting ADHD, Sex, and Brain Age from Resting-State fMRI Connectomes: An Interpretable Machine-Learning Pipeline	E-Health and Bioengineering Conference (EHB) / internationala	TBD	2025	TBD	
34	Cabulea V.A, M. Flămînzanu-Mateiuc, S.-D. Achirei	Fine-Tuning HateBERT for Hateful Speech Classification	21th International Conference on Intelligent Computer Communication and Processing (ICCP 2025) / internationala	TBD	2025	TBD	
35	Cabulea V.A, M. Flămînzanu-Mateiuc, S.-D. Achirei,O. Zvoristeanu	From Brain Signals to Age Prediction: a Machine Learning Approach	25th International Conference on Control Systems and Computer Science (CSCS) / internationala	2379-0482	2025	255-260	IEEE Xplore
36	Tudor C., S.-D. Achirei, C. Simionescu	ContaGPT: A Domain-Adapted LLM for Romanian Financial and Accounting Applications	27th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing / internationala	TBD	2025	TBD	
37	D.-E. Barbuta;G.-A. Scinteie;A. Alexandrescu	Modular AI-Enhanced System for Predictive and Real-Time Clinical Decision Support	24th RoEduNet Conference: Networking in Education and Research (RoEduNet) / internationala	979-8-3315-5713-3 / 2247-5443	2025	1-6	IEEE Xplore, SCOPUS
38	Alexandrescu A.;D.-E. Barbuta;C.N. Butincu	Secure and Decentralized Data Sharing Using Blockchain and Cryptographic Access Control	7th International Conference on Blockchain Computing and Applications (BCCA) / internationala	979-8-3315-0296-6	2025	437-444	IEEE Xplore

39	D.-E. Barbuta;C.N. Butincu;A. Alexandrescu	SPARK-IT Green: A Decentralized Blockchain-Based Platform for Sustainable Innovation, Mentorship and DAO Governance	7th International Conference on Blockchain Computing and Applications (BCCA) / internationala	979-8-3315-0296-6	2025	451-458	IEEE Xplore
40	Buţincu C.N., A. Alexandrescu, D.-E. Barbuta	Decentralized Identifiers Access Control Security Policy for Blockchain DApps and On-Chain Validation	7th International Conference on Blockchain Computing and Applications (BCCA) / internationala	979-8-3315-0296-6	2025	473-480	IEEE Xplore
41	Antalute F.; A. Marcu; A. Alexandrescu	EduPlay: Interactive Learning Platform for Middle School Students Integrated with Gamification and Blockchain	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9621-7 / 2473-5698	2025	215-220	IEEE Xplore
42	Marcu A.; F. Antalute; A. Alexandrescu	Decentralized Educational Certification Platform using Blockchain, Dynamic NFTs, and AI-Based Assessment	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9621-7 / 2473-5698	2025	221-226	IEEE Xplore
43	Botezatu N.-A. , V. Gisca, P.-C. Herghelegiu, R.-G. Lupu	Design and validation of a portable proprioceptive stimulator for upper limb rehabilitation	13th IEEE International Conference on E-Health and Bioengineering (EHB) / internationala	TBD	2025	TBD	SpringerNature
44	Artene C.-G., N.-A. Botezatu, P.-C. Herghelegiu	A Human-in-the-Loop Framework for Topological Completion of 3D Vascular Segmentations	13th IEEE International Conference on E-Health and Bioengineering (EHB) / internationala	TDB	2025	TBD	SpringerNature
45	Grecu C-S., N.-A. Botezatu, R.-G. Lupu	Reducing Calibration Time in EEG Motor Imagery BCI: A Two-Stage Approach for Clinical Deployment	13th IEEE International Conference on E-Health and Bioengineering (EHB) / internationala	TDB	2025	TBD	SpringerNature
46	Maftei E.-C., O. Zvoristeanu, H.-N. Costin, S.-I. Bejinariu, F. Rotaru	Automated Estimation of the Edinburgh Visual Gait Score Using OpenPose System	International Symposium on Signals, Circuits and Systems (ISSCS) / internationala	979-8-3315-5299-2/2995-0236	2025	1-4	IEEE Explore
47	Heghea M.-C., E.-C. Maftei, O. Zvoristeanu	Virtual Reality as a therapeutic tool for autism spectrum disorder: opportunities and challenges	13th IEEE International Conference on E-Health and Bioengineering (EHB) / internationala	TDB	2025	TBD	-
48	Maftei E.-C, O. Zvoristeanu, H.-N. Costin, G. Petroiu, T.I. Ursache	A Cloud-Enabled System for Automated Gait Scoring Using OpenPose Video Analysis	13th IEEE International Conference on E-Health and Bioengineering (EHB) / internationala	TDB	2025	TBD	-
49	Voineag D.-I.; C. Mironeanu	Enhancing Data Resilience and Security in Distributed Storage Systems Against Ransomware Attacks	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	2473-5698	2025	203-208	IEEE Xplore
50	Alexandrescu A., D.-E. Barbuta, C.-N. Buţincu, G.-A. Scinteie, S.-D. Paval, A. Archip, C. Mironeanu, M. Taune; C. Graunte, G. Butnaru, S. Caraiman	SPARK-IT: A Decentralized Blockchain and AI-Driven Ecosystem for Trusted and Transparent Innovation Collaboration	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	2473-5698	2025	227-232	IEEE Xplore
51	Jaouhari S.E., A. Vavilov, J. Soloveva, A. Archip, N.E. Madhoun	MIDPS: A Multi-agent host Intrusion Detection and Prevention System	International Conference on Advanced Information Networking and Applications (AINA) / internationala	978-3-031-87772-8/ 2367-4512	2025	257-268	Springer
52	Archip A., E. Serban, C.-M. Amarandei	A Linux/Unix-based System for Managing Dynamic Laboratory Environments	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	2473-5698	2025	620-625	IEEE Xplore
53	Butincu C.N., D.E. Barbuta, A. Alexandrescu	Multi-Layer Blockchain-Based IoT Architectures	IEEE Annual Congress on Artificial Intelligence of Things (IEEE AIoT 2025) / internationala	TBD	2025		IEEE Xplore
54	Stoleru A., C.N. Butincu, V.-S. Sarmasanu, V.I. Manta	Exploring Gradient Boosting Machine for Parkinson's Disease Classification Using Accelerometer Data	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9621-7 / 2473-5698	2025	379-384	IEEE Xplore
55	Gherghel S., A. Stan, F. Dobos	Design of a Dual-Issue Superscalar RISC-V Core With Dynamic Branch Prediction	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	2473-5698	2025	601-606	IEEE Xplore
56	Ifrim T.-N., A. Stan	Design of a hardware hash engine for accelerating STARKs on resource constrained devices	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	2473-5699	2025	649-654	IEEE Xplore
57	Enache M., A.-N. Moisoiu, O. Zvoristeanu	Deep Learning-Based Lumbar Vertebrae Segmentation in MRI Scans	13th IEEE International Conference on E-Health and Bioengineering (EHB) / internationala	-	-	-	-

58	Teslaru V., O. Zvoristeanu	A Framework for Large-Scale Data Collection From Virtual Environments for Autonomous Driving	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9621-7	2025	744-749	IEEE Xplore
59	Butu A,-G., E. Iorga, T. Dumitriu	Clickbait Detection using NLP and Sentiment Analysis	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9621-7	2025	pp. 123-129	IEEE Xplore
60	Gavrilescu M., G.-A. Scinteie, D.-E. Barbuta, F. Leon	Improving Maze Exploration and Evacuation with Reactive Agents through Directional Weighting	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala		2025	385–390	IEEE Explore
61	Gavrilescu M.	Improved Exploration of Volume Data Using Transition Transfer Functions	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala		2025	770–775	IEEE Explore
62	Gavrilescu M.	Evaluation of Vaccination Strategies in an Agent-Based SEIRV Epidemic Model	13th IEEE International Conference on E-Health and Bioengineering / internationala		2025	23-28	IEEE Explore
63	Heghea M.-C., S.-D. Paval, V.-I. Manta	Numerical Simulation of Reaction-Diffusion Model for Graph-Based Data Clustering	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9621-7/2473-5698	2025	551-554	IEEE Explore
64	Paval S.-D., A.-A. Nedelcu	Design Guidelines for an LRS-Enabled Electronic Voting System Using Cryptowallet Identities	5th International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME) / internationala	979-8-3315-3556-8	2025		IEEEXplore
65	Leon F.	Action Masking Methods for Safe Reinforcement Learning in a Non-Stationary Configurable Environment	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9620-0	2025	535-540	IEEE Xplore
66	Grigoras A., F. Leon	Generating and Optimizing What-If Scenarios Using a Transformers-Based Forecasting Model	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9620-0	2025	529-534	IEEE Xplore
67	Leon F.	A Survey of Compositionality Mechanisms in Neural Models in Support of Explainability	21st International Conference on Intelligent Computer Communication and Processing (ICCP 2025) / internationala	979-8-3315-5895-6	2025	1-8	IEEE Xplore
68	Chihaia R., M. Trocan, F. Leon	Simple Idea Discovery in a Minimalist LLM Architecture Implementation	20th Conference on Computer Science and Intelligence Systems (FedCSIS 2025 / internationala	2300-5963	2025	291-296	IEEE Xplore
69	Barb Ciorbea M.A.,M. Kloetzer,C. Mahulea	Vehicle Routing Problem With Pick-up and Delivery Tasks in Obstacle-Cluttered Environment	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9621-7/ 2473-5698	2025		IEEE Xplore
70	Ticlos C., S. Hustiu	Comparative study of classical coverage methods applied to trapezoidal environments	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9621-7 /2473-5698	2025		IEEE Xplore
71	Barbuta D.-E., G.A. Scinteie, S. Caraiman	GPU Kernel Optimizations for Genetic Algorithms on CUDA	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9621-7 /2473-5698	2025		IEEE Xplore
72	Contac Alexandru, Burlacu Adrian	Dynamic Path Planning for Drone Operations in Partially Known Environments	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	979-8-3315-9621-7/ 2473-5698	2025		IEEE Xplore
73	Munteanu M.D., D.I. Pintilie, C. Lazar	Practical Issues in the Implementation of IFT Algorithm for Model-Free Controllers	25th International Conference on Control Systems and Computer Science (CSCS) / internationala	979-8-3315-7343-0	2025	80-87	Scopus
74	Fodor M.-G., T. Gorghe	XSSnake: A Practical Study in Synthetic XSS Payload Generation	29th International Conference on System Theory, Control and Computing (ICSTCC) / internationala	2473-5698	2025	391-396	IEEE Xplore