

Raportarea activitatii de cercetare in anul calendaristic 2025

Numele facultatii:	ETTI	
Numar de cadre didactice titulare:	160	*conform Stat de functii
Numar de brevete internationale cu autori din ETTI:	3	* lista completa in capitolul 2. Brevete
Numar de brevete nationale cu autori din ETTI:	3	* lista completa in capitolul 2. Brevete
Numar de contracte de cercetare din planul national (inclusiv ARUST) cu director/responsabil din ETTI:	44	* lista completa in capitolul 3. Contracte de cercetare
Numar de contracte de cercetare internationale (Horizon, FP10, fonduri europene, etc) cu director/responsabil din ETTI:	19	* lista completa in capitolul 3. Contracte de cercetare
Numar de articole publicate in reviste cotate WOS:	88	* lista completa in capitolul 4. Publicatii
Numar de articole publicate in Q1	47	* lista completa in capitolul 4. Publicatii
Numar de patricipari la conferinte internationale <i>cu lucrari orale</i>	86	* lista completa in capitolul 4. Publicatii

Capitolul 2. Brevete

Lista completa a brevetelor Nationale / Internationale, cu autori din ETTI, acordate in anul 2025

Nr curent	Autori, Titlul brevetului, Țara + Numărul brevetului, Data publicării / acordării.	National / International
1	A. Malaescu; D. Filip; M. Ciuc ; L.-C. Dutu; M. Dumitru-Guzu: Methods and systems to predict activity in a sequence of images, US Patent nr. US-12249184-B2, March 2025	International
2	Florin-Silviu DUMITRU , Niranjan Reddy Suravarapu, Alexandra-Oana Petroianu, "Protection device", SUA US20240322670A1, publicat 26.09.2024 / acordat 28.10.2025	International
3	Stefan, Ionuț-Gabriel; Florea, Sorin-Daniel; Hobincu, Radu; Bîră, Călin ; VN118121 - Hệ thống kiểm tra video hoạt động cắt vải, Vietnam, Application Number: 1202504168, Application Date: 11.01.2024, Publication Number: 118121, Publication Date: 27.10.2025 (https://patentscope.wipo.int/search/en/detail.jsf?docId=VN467896109)	International
4	Miron Cristea , Dispozitiv semiconductor de tip tranzistor bipolar pnp cu contact metal-semiconductor, OSIM IPC: H01L/29, 21.11.2023 – 30.05.2025.	National
5	Brevet de inventie nr. 134070, Cristian Ravariu , Avireni Srinivasulu (inventatori), Dispozitiv Electronic Semiconductor cu Structura Hibrida, Universitatea UNSTPB detine drepturi, Brevet Acordat Conf. Hotararii OSIM nr. 4.4 95 / 30.08.2024, depozitul 00813/2018, publicat in BOPI Sectiunea Inventii nr. 1/2025 din 30.01.2025, si inregistrat OSIM nr. 04796 din 05.Feb 2025	National
6	V. Savu, O. Fratu, R Craciunescu, S. Halunga, A. Vulpe, C Voicu , "Sistem Hardware de detectie a radiatiei cosmice de tip neutrino electron in sare", Brevet Nr 133011, acordat de OSIM 29-08-2025	National

Capitolul 3. Contracte de cercetare

Lista completa a proiectelor și contractelor de cercetare (nationale / internationale), cu director sau responsabil din ETTI, derulate în anul 2025

Nr curent	Nume contract, tipul contractului, perioada derularii
1	5G-Edge Network for Reinventing Innovation in Community and Higher-Education, #101181353, 23-EU-DIG-5G-ENRICH — CEF-DIG-2023-5GSMARTCOM-EDGE, 2025-2028
2	Platformă de fuziune și management a colecțiilor de date multi-sursă exploatabile de către modele cu inteligență artificială pentru estimarea și analiza predictivă a situațiilor de risc PN-IV-P6-6.3-SOL-2024-2-0251, Contract 3Sol(T3)/2024 (2024-2026)
3	Analogue-mixed IP blocks and RISC-V IP integration, Terti, 26.05.2025-30.06.2027
4	Renewable Energy in Artificial Land Surfaces (LIFE24-CET-LIFE REALS, Proiect 101216075), 2025-2028
5	Distributed SAR Drone-based Demonstrator (DEDALO) - contract cu Agenția Spațială Europeană (ESA) 4000146795/25/NL/SC, 2024-2027
6	EO4SECURITY - Innovative SAR Processing Methodologies For Security Applications (MIDAS) - contract cu Agenția Spațială Europeană (ESA) 4000142310/23/I-DT, 2023-2025
7	Explainable SAR measurements for Wind Assessment with Artificial Intelligence (ESAWAAI) - contract cu Agenția Spațială Europeană (ESA) 4000142170/23/DT, 2023-2026
8	SARWAVE study - contract cu Agenția Spațială Europeană (ESA) 4000137982/22/I-DT, 2022-2026
9	Digital Twin for Innovation in Oceanic Visualization and Exploration (DIVE) CF. 139/2025, 2025-2028
10	Topic 2: Enhanced spatial and spectral signature fusion from Hyper-Spectral data (HYPERFUSE), CF. PCE 228/202, 2025-2026
11	Towards Higher INvolvement of Knowledge Significantly Enhancing Nearer for Sustainable Europe ("THINKSENSE"), finanțat prin Planul Național de Redresare și Reziliență, 2026-2028
12	ATELIER - innovATIVE Education for social Inclusion via codEsign pRactices, ERASMUS+ (2023-1-IT02-KA220-HED-000151627), 2024-2027.
13	DECITEL - Democratic Citizenship Teaching and Learning, ERASMUS+ (101196495 — DECITEL), 2025-2028.
14	DIG.INT - Digital International Trainers, ERASMUS+ (2022-1-IT01-KA220-VET-000089459), 2022-2025.
15	Arrowhead flexible Production Value Network - Premiere Institutionala (Arrowhead fPVN PI) - contract PN-IV nr. 21PHE/2023-2025

16	RECOMBINE– „Research Collaboration and Mobility for Beyond 5G Future Wireless Networks”, proiect H2020 tip H2020-MSCA-RISE nr. 872857, acceptat în cadrul apelului H2020-MSCA-RISE-2019, (coord. Aarhus University, Danemarca, ulterior Technical University Sofia, Bulgaria, 16 parteneri din Europa, Statele Unite și Brazilia), (durata 66 luni: 2020-2025)
17	Mobilitate și Training pentru și dincolo de ecosistemele 5G (MOTOR-5G-Ro) - contract PN-III-P3-3_6-H2020-2020-0193 nr. 69/2022-2025
18	6G Intelligent Connectivity And inteRaction for Users and infraStructures (6G-ICARUS) - contract HEU-MSCA-SE nr. Grant Agreement No: 101131342/2024-2027
19	Development of Innovative Graduate Educational Program in Cyber Security for Digital labor market of Central Asia - Proiect Parteneriate ERASMUS + nr. 101237389, 2025-2028
20	Artificial Neural Network Trace Generation, Keysight3, contract cercetare terți, 2025-2026
21	Building Collections of Data for Advanced Training of Artificial Intelligence Algorithms in National Security Applications, SOL4/2024, UEFISCDI Soluții, 2024-2026
22	Sistem integrat avansat pentru identificarea autovehiculelor, utilizând multiple elemente de recunoaștere/confirmare, bazat pe inteligență artificială (IA), PN-IV-P6-6.3-SOL-2024-0049, 01/07/2024 - 30/06/2026
23	Detecția relațiilor între entități în seturi de date nestructurate și structurate, contract 1SOL(T12)/2024, UEFISCDI Soluții, 2024-2026
24	Sistemul IOT inteligent pentru automatizarea serelor, PTE, 08.01.2025-31.12.2026
25	Cercetarea, documentarea, testarea, măsurarea și validarea echipamentelor de tip 50GPON FTTR și a dispozitivelor de tip CPE asociate - Contractului de Cercetare Stiintifica (cu terti), Nr. 48148 /01.09.2025,, Laboratorul 5G in calitate de executant / prestator si S.C. ORANGE ROMANIA S.A. in calitate de beneficiar (finantator)
26	Text Mining (TM) în Profilarea Psihometrică Clinică, contract 12PTE/2025, 2025-2026
27	Pachet de instrumente de procesare și analiză lingvistică pentru limba română (RoNLP), PN-IV-P6-6.3-SOL-2024-2-0238, 01/08/2024 - 31/07/2026
28	Detecția Melanoamelor cu ajutorul Imagisticii Multispectrale, PN-IV-P7-7.1-PED-2024-1873, UNIVERSITATEA NAȚIONALĂ DE ȘTIINȚĂ ȘI TEHNOLOGIE POLITEHNICA BUCUREȘTI, CENTRUL MEDICAL AIDE - SANTE SRL, 750 000.00, Punctaj 100 puncte; pozitia in clasament: 1
29	Sistem Inteligent pentru Detecția Asistată a Cancerului Cervical din Imagini de Papanicolau (CerviAssistAI); PN-IV-P7-7.1-PTE-2024-0768; Punctaj 95.4; pozitia in clasament: 19
30	Stație de încărcare rapidă în c.c. modulara DC cu dimensiuni reduse pentru vehicule electrice – FASTCHARGE, program PN-IV, tip PTE, cod proiect PN-IV-P7-7.1-PTE-2024-0347, contract NR. 44PTE/2025, perioada derularii 14.05.2025- 14.05.2027, 24 luni

31	Competence Center for Climate Change Digital Twin for Earth forecasts and societal redressment: DTEClimate, in the frame of Romania National Recovery and Resilience, 2023-2025
32	Climate-Neutral Governance, proiectul component nr 1 in cadrul National Competence Centre and solutions for the development of Climate Neutral and Smart Cities (NetZeRoCities), finantat de Uniunea Europeana – NextGenerationEU si de Guvernul Romaniei, prin PNRR, contract nr. 760007 / 30.12.2022 cu MCID, 2023-2026
33	Sistem de access dinamic la spectru bazat pe baze de date de geolocație (GeoSpectrum), Proiect UEFISCDI, PN-IV-P7-7.1-PED-2024-0741, no. 103PED/13.05.2025
34	Proiect 34808/19.09.2025, Studiul presiunii transmembranare la dializoare prin metode statistice, contract cu terti, Oct 2025-Oct 2026
35	NavigAIte: AIoT On-Board Localization System for UAVs in GPS-Denied or Unreliable Environments, Romanian Ministry of Education and Research in National Research, Development and Innovation Plan for 2022-2027,
36	Vitis-IoTech, ADER 6.3.13/2023, Ministry of Agriculture and Rural Development
37	IMINT for Black Sea, Frontiers and Mines, Solutii T21Sol, Iulie 2024 - Iulie 2026
38	Gestionarea stocării de energie electrice în sisteme hibride: baterie acumulatori-supercondensatoare/ ARUT/2023-2025
39	PN-IV-P5-5.9.2-CERN-RO, Experimentul ATLAS de la LHC (ATLAS), 2024-2026, responsabil partener P2 (UPB), finantat prin IFA de ANCSI (https://www.ifa-mg.ro/cern/pachet-informatii.php)
40	Gemeni digitali ai unei rețele industriale PLC-IoT de nouă generație pentru o mentenanță preventivă bazată pe inteligență artificială (DAPPA), PN-IV-P8-8.3-PM-RO-TR-2024-0030, contract 6BMTR/2025, UEFISCDI, 2025-2026.
41	Noi algoritmi adaptivi bazati pe descompunere pentru sisteme de telecomunicații cu terminale stereo (ASTRA) - ARUT, nr. 36/09.10.2023, 6.10.2023-31.12.2025
42	O nouă aplicație hardware eficientă pentru compensarea ecoului acustic în sisteme de teleconferință stereo folosind o schemă de descompunere inovatoare - AOSR, 409/15.03.2025
43	Îmbunătățirea capacității de depistare a cancerului în radiografii cu ajutorul modelelor generative, contract GNAC2023 ARUT, GANvCan ID: 520235442, nr. 98/11.10.2023, 2023-2025
44	SISTEM DIGITAL MODULAR PENTRU EVALUAREA GRADIENTULUI DE TEMPERATURA LA PICIORUL DIABETIC, PED78, 2025-2027
45	Sistem suport de decizie pentru fermieri bazat pe modelarea parametrilor prin învățare automată, ARUT, 4.12.2023 - 31.12.2025
46	Structuri neurale pentru învățare profundă folosind circuite bazate pe nano-panglicile de grafen, ARUT 2023, 06.10.2023-31.12.2025

47	BlockIOV: Internet of Vehicles folosind tehnologia blockchain pentru monitorizarea calității aerului, ARUST, Contract nr. 18/06.10.2023, 06.10.2023 - 31.12.2025
48	PNTS - Platformă Națională pentru Tehnologiile Semiconductorilor, POCIDIF (Cod SMIS 2021+ 351364), 2024-2029.
49	Platformă robotică de precizie pentru agricultura eficientă (PROTECT-Agri), contract 113PED/2025, cod proiect: PN-IV-P7-7.1-PED-2024-0571 din cadrul competiției ” Programul Parteneriate pentru Inovare, Subprogramul Parteneriate pentru competitivitate - ”Proiect experimental demonstrativ (PED 2024)” (UEFISCDI), proiect period: June 2025- June 2027 (partener: SC BEAM INNOVATION SRL)
50	Rețea ad-hoc optimizată pentru agricultura de precizie (RomAgrar), contract 24.10.2023, din cadrul competiției National Program for Research of the National Association of Technical Universities - GNAC ARUT 2023, proiect period: october 2023- december 2024
51	COMET, Cuploare directive cu metamateriale pentru sisteme de telecomunicații de bandă dublă, ARUT, 6.10.2023-31.12.2025
52	Segmentarea semantica slab supervizata a imaginilor cu arsuri, ARUT, nr 68/2023, 2023-2025
53	Dezvoltarea de soluții iterative îmbunătățite bazate pe descompuneri tensoriale pentru aplicații în domeniul acustic - AOSR, 131/06.02.2024
54	SMART-VLC: Transmisiune Securizată și Fiabilă în Comunicația Optică în Spectrul Vizibil, 37/9.10.2023, 9 octombrie 2023 - 31 decembrie 2025
55	Cercetări privind eficiența și viteza de încărcare a bateriilor din sistemele de energii regenerabile (ENBAT), Finantare: ARUT, Contract 135/4.12.2023, Interval de desfasurare: 2023-2025
56	Contract nr. 133/4.12.2023, Modelarea comportamentală a calculului analogic pentru inteligența artificială – MCCAIA, proiect GNAC-ARUT 2023, contract nr.133/4.12.2023, 2023 – 2025, valoare echivalentul în lei a 10.000 EUR, director de proiect.
57	Cercetări asupra realizării unor supercondensatoare cu separator biodegradabil, componentă de impact în evoluția electronicii auto și a stocării de sarcină electrică, GNAC ARUT 51/10.10.2023, octombrie 2023 - decembrie 2025
58	Arrowhead – Rețele Flexibile de Valorizare a Producției - PI (Arrowhead fPVN PI), contract (grant) nr. 21PHE/2023, cod „PN-IV-P8-8.1-PRE-HE-ORG-2023-0063”, proiect de cercetare in parteneriat finantat de UEFISCDI prin PN4, coordonator și unic partener Universitatea POLITEHNICA din București (UPB), durata 25 luni (2023-2025),
59	Sistem de detecție și protecție tip IDS/IPS a infrastructurilor critice de comunicații cu capabilități de alertă și blocare timpurie a atacurilor de tip DDoS (SDPICaDDoS), Nr. Contract 26SOL(T26)/2024, acceptat în cadrul apelului SOL-26, finanțat de UEFISCDI, coord. UPB, Parteneri UTBv, ATM, Safetech, Beia, 2024-2026

60	Arrowhead flexible Production Value Network Ro (Arrowhead fPVN Ro) - contract PN-IV-P8-8.1-PME-2024-0011 nr. 7/2024-2025
61	Transformatorul electronic de putere pentru o rețea de distribuție viitoare mai electronică, ARUT2023, Nr. 162 / 04.12.2023, perioada derularii 04.12.2023- 31.12.2025, 24 luni
62	Implementarea unui receptor rezistent la atacuri RF de tip spoofing bazat pe semnalul Galileo OSNMA (IRAS) nr. 90/11.10.2023- 31.12.2025
63	AID-MEDIC: Asistent Inteligent Digital pentru Diagnostic Medical, ARUST, Național, 6.10.2023 - 31.12.2025

Alinierea proiectelor și contractelor cu direcțiile strategice de cercetare din ETTI

Nr.	Direcție	Proiecte (nr. curent din lista completă de proiecte)	Numar proiecte	Procent din total
1	Sisteme și rețele digitale cu servicii integrate	1, 15, 16, 17, 18, 25, 58, 60	8	12.7
2	Comunicații mobile	1, 16, 17, 18, 25	5	7.9
3	Sisteme de comunicații cu spectru distribuit	33, 41, 50	3	4.8
4	Sisteme și rețele de comunicații de date	1, 15, 16, 25, 50, 59	6	9.5
5	Protocoale pentru rețele de telecomunicații	16, 18, 25, 59	4	6.3
6	Prelucrarea semnalelor numerice	41, 42, 53	3	4.8
7	Sisteme și circuite cu microunde	51, 54	2	3.2
8	Teoria informației și a codurilor	54, 62	2	3.2
9	Recunoașterea formelor și inteligență artificială	2, 7, 9, 10, 11, 20, 21, 22, 23, 26, 27, 31, 35, 37, 40, 45, 49, 52, 63	19	30.2
10	Prelucrare imaginilor	5, 6, 7, 8, 10, 28, 29, 31, 43, 52	10	15.9

11	Inteligență computațională	2, 7, 11, 20, 21, 22, 23, 26, 27, 35, 40, 45, 56, 63	14	22.2
12	Prelucrarea neliniară a semnalelor	41, 42, 53	3	4.8
13	Electronică și informatică industrială	15, 24, 36, 38, 40, 49	6	9.5
14	Electronică și informatică medicală	26, 28, 29, 34, 43, 44, 52, 63	8	12.7
15	Structuri și algoritmi de calcul paralel	9, 31	2	3.2
16	Echipamente de calcul și multimedia	12, 13, 14, 19	4	6.3
17	Baze de date	2, 21, 23	3	4.8
18	Realitate virtuală și vizualizare științifică	9, 31	2	3.2
19	Sisteme de operare și prelucrare distribuită	1, 16, 19, 25, 59	5	7.9
20	Videosisteme și prelucrarea imaginii	5, 6, 7, 28, 29, 43	6	9.5
21	Structuri semiconductoare și senzori inteligenți	3, 46, 48, 56	4	6.3
22	Modelarea și simularea proceselor / dispozitivelor	9, 31, 40, 56	4	6.3
23	Proiectarea asistată de calculator a microsistemelor	3, 46	2	3.2
24	Arhitecturi paralele de calcul	9	1	1.6
25	Prelucrarea semnalului vocal și sinteză	42, 53	2	3.2
26	Sisteme de măsurare și control	24, 34, 38, 44	4	6.3
27	Software specific pentru microsisteme	24, 36	2	3.2
28	Calitatea și fiabilitatea sistemelor electronice	30, 61	2	3.2
29	Optoelectronică	54	1	1.6
30	Electronică tehnologică și interconectare	30, 55, 57, 61	4	6.3
31	Compatibilitatea electromagnetică	62	1	1.6

Capitolul 4. Publicații

Lista completa a articolelor publicate în reviste indexate WOS sau prezentate oral la conferințe internaționale cu autori din Facultatea ETTI din anul 2025

(fiecare articol apare o singura data indiferent de numarul de autori din facultate)

Nr curent	Autori, Titlu articol, Revista / conferinta, volum, data	WOS Q1 / WOS Q2 / WOS Q3 / WOS Q4 / lucrare orala la conferinta internationala
1	A. Dumitrescu, C.-A. Tănase , M. Vaduva, and B. Mocanu , “Enhancing eCall Systems with LLM-Powered First Aid Guidance and Follow-up Information,” in Proc. 28th Int. Symp. on Wireless Personal Multimedia Communications (WPMC 2025), Sofia, Bulgaria, Nov. 9–12, 2025.	conferinta
2	A. Prahoveanu, A.M Drăgulescu , Applications of Reinforcement Learning in Chaturaji Chess for Educating Brains, 17th IEEE Conference on Education Technology and Computers, Barcelona, Spain, 18-21 Sept. 2025 (accepted, presented, in press).	conferinta
3	A. Țapu, A.M Drăgulescu , IoT-enabled Integrated Avionic System for Supersonic Multi-purpose Rockets with Real-Time Telemetry and Autonomous Flight Control, 2025 IEEE Global Communications Conference (GLOBECOM), Taipei, Taiwan, 8-12 Dec. 2025 (accepted).	conferinta
4	Adrian Focsa, Andrei Anghel , Giovanni Nico, Iolanda Maggio, Mihai Dateu and Michela Corvino, "Vibration-Induced Micro-Doppler Estimation in Spaceborne SAR Images Using Doppler Centroid Tracking Across Azimuth Sub-Apertures," 2025 IEEE International Radar Conference (RADAR), Atlanta, GA, USA, 2025	conferinta
5	B. Mocanu and R. Tapu , “A Lightweight Audio-Visual Speaker Detection System for Assistive Video Captioning,” in Proc. 2025 13th European Workshop on Visual Information Processing (EUVIP 2025), Valletta, Malta, Oct. 13–16, 2025.	conferinta
6	B. Mocanu and R. Tapu , “Seeing Through Words: A Zero-Shot Multimodal Audio Description System with Foundation Models,” in Proc. 20th International Symposium on Visual Computing (ISVC 2025), Las Vegas, NV, USA, November 17–19, 2025, Lecture Notes in Computer Science, Springer, 2025.	conferinta

7	Bădoi, C.I. "From Overfitting to Generalization: A Methodological Framework for Heart Failure Detection Using Optimized Ensemble Machine Learning Models". In Proceedings of the 29th International Conference on System Theory, Control and Computing (ICSTCC 2025), Cluj-Napoca, Romania, 9-11 October 2025; pp. 512-517.	conferinta
8	Bădoi, C.I. "Safeguarding Online Trust: NLP-ML Detection of Computer-Generated Reviews". In Proceedings of the 13th Conference on Speech Technology and Human-Computer Dialogue (SpeD 2025), Cluj-Napoca, Romania, 19-22 October 2025; pp. 34-39.	conferinta
9	Bădoi, C.I. ; Kartal Cetin, B.; Cetin, K.; Karatas, C.; Ozbek, M.E.; Sahin, S. "Architecting the Future Factory: Industrial PLC-IoT, Digital Twins and Predictive AI-Based Maintenance". In Proceedings of the 28th International Symposium on Wireless Personal Multimedia Communications (WPMC 2025), Sofia, Bulgaria, 9-12 November 2025.	conferinta
10	C Stalidi, G Suci Jr., EC Popovici , Real-Time Digital Ecosystems: Integrating Virtual Personas and Digital Twins Through Microservices, In Availability, Reliability and Security: ARES 2025 EU Projects Symposium Workshops, Ghent, Belgium, August 11-14, 2025, Proceedings, Part I. Lecture Notes in Computer Science	conferinta
11	C.-A. Tănase , A. Dumitrescu, A. B. D. Trasca, and B. Mocanu , "Lightweight Machine Learning Models for UWB Localization and Gesture Recognition," in Proc. 28th Int. Symp. on Wireless Personal Multimedia Communications (WPMC 2025), Sofia, Bulgaria, Nov. 9–12, 2025.	conferinta
12	D. Memet, I. Pirnog , A.-M. Drăgulinescu , G. Craioveanu, C. Zamfirescu, I. Marcu , "Adaptive P2P UAV-UGV Prototype for Ad Hoc Network-based Precision Agriculture", 2025 International Wireless Communications and Mobile Computing (IWCMC), Abu Dhabi, United Arab Emirates, 2025, pp. 1552-1557, doi: 10.1109/IWCMC65282.2025.11059611, WOS: 001547037100257.	conferinta
13	Daiana Tomescu, Alina Badescu , Tropospheric effects for Galileo signals, 5th International Conference on Electrical, Computer and Energy Technologies (ICECET), July 03 - 06, 2025	conferinta
14	EC Popovici ; O Fratu , A Vulpe , C Stalidi, G Suci Jr., Architecting Scalable ICPS for the Automotive Industry: Integrating NVIDIA AI Microservices with Eclipse Arrowhead, in 2025 IEEE 8th International Conference on Industrial Cyber-Physical Systems (ICPS)	conferinta
15	EC Popovici ; O Fratu , C Stalidi, A Vulpe , G Suci Jr., Production Value Networks Use Cases for NVIDIA AI Microservices Integration in the Eclipse Arrowhead Framework, ICIN 2025, Paris, France, March 11-14, 2025	conferinta
16	G Suci Jr., C Stalidi, EC Popovici , Cross-Vertical Integration of AI, Blockchain, and IoT for Secure and Resilient Digital Health Ecosystems, In 2025 IEEE International Black Sea Conference on Communications and Networking (BlackSeaCom) 2025 Jun 23. IEEE.	conferinta
17	I. -R. Stancu, C. Neamțu, A. Pricop and R. -E. Crăciunescu , "BLDC Engine Behavioral Model Approached with Machine Learning," 2025 International Semiconductor Conference (CAS), Sinaia, Romania, 2025, pp. 191-194, doi: 10.1109/CAS66707.2025.11222176.	conferinta

18	Iustin Floroiu, Andrei Anghel , Laura Petrescu and Mihai Datcu , "Clustering and Feature-Based Similarity Retrieval of Infrasound Events during Two Storms in Constanța, Romania," 2025 International Conference on Machine Intelligence for GeoAnalytics and Remote Sensing (MIGARS), Bucharest, Romania, 2025	conferinta
19	M. Grosu, B. Mocanu, R. Tapu, and O. Datcu , "Evaluating Speech Emotion Recognition Systems: From Traditional Low-Level Features to Transformer-Based Models," in Proc. International Conference on E-Health and Bioengineering (EHB 2025), Iași, Romania, Nov. 13–14, 2025, Springer IFMBE Proceedings, 2025.	conferinta
20	Mihai Gabriel Botezatu, Nicolae-Cătălin Ristea, Andrei Anghel , Alexis Mouche, Frédéric Nougier, Antoine Grouazel, Mihai Datcu , "Gated Convolutional Feed-Forward Module in Transformers for Sea Ice Segmentation in SAR Imagery," 2025 International Conference on Machine Intelligence for GeoAnalytics and Remote Sensing (MIGARS), Bucharest, Romania, 2025	conferinta
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22	O. Constantin, R. Tapu, B. Mocanu , and M. Grosu, "Food Image Recognition: From CNNs to Transformers and Multimodal Learning," in Proc. International Conference on E-Health and Bioengineering (EHB 2025), Iași, Romania, Nov. 13–14, 2025, Springer IFMBE Proceedings, 2025.	conferinta
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Alinierea articolelor publicate cu direcțiile strategice de cercetare din ETTI

Nr.	Direcția de cercetare	Articole publicate (nr. curent din lista completă de articole)	Număr articole	Procent din total
1	Sisteme și rețele digitale cu servicii integrate	3, 9, 10, 14, 15, 16, 28, 31, 38, 39, 83, 90, 100, 111, 136, 141, 169	17	9.8
2	Comunicații mobile	1, 3, 12, 28, 31, 33, 35, 90, 112, 116, 133, 138, 157, 163	14	8
3	Sisteme de comunicații cu spectru distribuit	21, 35, 88, 114, 119, 135	6	3.4
4	Sisteme și rețele de comunicații de date	12, 28, 31, 33, 38, 71, 90, 113, 125, 127, 129, 130, 131	13	7.5
5	Protocoale pentru rețele de telecomunicații	33, 34, 113, 116, 125, 127, 129, 130, 131	9	5.2
6	Prelucrarea semnalelor numerice	24, 25, 26, 27, 42, 52, 153, 154, 159	9	5.2
7	Sisteme și circuite cu microunde	35, 88, 114, 119, 147	5	2.9
8	Teoria informației și a codurilor	21, 49, 94, 103, 151	5	2.9
9	Recunoașterea formelor și inteligență artificială	2, 4, 5, 6, 8, 11, 18, 20, 22, 29, 30, 45, 47, 50, 53, 63, 67, 73, 75, 78, 84, 85, 86, 91, 98, 107, 108, 109, 111, 123, 140, 144, 145, 152, 158	35	20.1

10	Prelucrare imaginilor	4, 18, 20, 22, 29, 30, 45, 47, 50, 63, 67, 73, 78, 84, 85, 86, 98, 107, 108, 109, 140, 150, 162	23	13.2
11	Inteligență computațională	2, 7, 8, 17, 36, 37, 40, 64, 76, 77, 91, 117, 118, 125, 126, 127, 128, 129, 132, 145, 158	21	12.1
12	Prelucrarea neliniară a semnalelor	24, 25, 26, 27, 42, 52, 56, 57, 58, 59, 60, 61, 117, 118	14	8
13	Electronică și informatică industrială	9, 17, 23, 36, 43, 136, 146, 173	8	4.6
14	Electronică și informatică medicală	7, 19, 36, 64, 76, 87, 91, 108, 110, 132, 134, 145, 158, 161, 166	15	8.6
15	Structuri și algoritmi de calcul paralel	37, 50, 94, 126, 128, 170	6	3.4
16	Echipamente de calcul și multimedia	5, 6, 29, 30, 32, 42, 50, 51, 143, 152, 159, 171	12	6.9
17	Baze de date	10, 106, 111, 115, 142	5	2.9
18	Realitate virtuală și vizualizare științifică	10, 18, 54, 55, 74, 78	6	3.4
19	Sisteme de operare și prelucrare distribuită	28, 31, 32, 34, 38, 71, 100, 126, 128, 160, 171	11	6.3
20	Videosisteme și prelucrarea imaginii	5, 6, 29, 30, 50, 51, 159, 162	8	4.6
21	Structuri semiconductoare și senzori inteligenți	17, 43, 52, 56, 57, 58, 59, 60, 61, 62, 66, 68, 69, 80, 82, 97, 101, 104, 105, 120, 124	21	12.1
22	Modelare și simulare dispozitive / procese	17, 56, 57, 58, 59, 60, 61, 62, 66, 72, 80, 101, 104, 105, 117, 118	16	9.2

23	Proiectarea asistată de calculator a microsistemelor	43, 46, 52, 62, 68, 69, 82, 120	8	4.6
24	Arhitecturi paralele de calcul	37, 126, 128, 170	4	2.3
25	Prelucrarea semnalului vocal și sinteză TTS	5, 19, 24, 29, 30, 53, 70, 123	8	4.6
26	Sisteme de măsurare și control	21, 36, 43, 46, 66, 88, 136, 149, 173	9	5.2
27	Software specific pentru microsisteme	48, 68, 69, 82, 170	5	2.9
28	Calitatea și fiabilitatea sistemelor electronice	28, 31, 72, 82, 146, 149	6	3.4
29	Optoelectronică	29, 104, 134	3	1.7
30	Electronică tehnologică și interconectare	72, 80, 97, 101, 104, 172	6	3.4
31	Compatibilitatea electromagnetică	21, 35, 88, 119, 138	5	2.9