

LISTA DE LUCRĂRI

Candidat: Neagu C. Bogdan Constantin - **Dr.**/ din 2014, Conferențiar / din 2022

1. Lista a maximum 10 lucrări, cele mai relevante pentru domeniul disciplinelor postului

1.	Bogdan-Constantin Neagu , Ovidiu Ivanov, Gheorghe Grigoras, Mihai Gavrilas, <i>A New Vision on the Prosumers Energy Surplus Trading Considering Smart Peer-to-Peer Contracts</i> . Mathematics, 2020, 8, 235. Accession Number: WOS:000519234000090 (Q1) IF 2.258.
2.	Bogdan-Constantin Neagu , Ovidiu Ivanov, Gheorghe Grigoras, Mihai Gavrilas, Marcel Istrate, <i>New Market Model with Social and Commercial Tiers for Improved Prosumer Trading in Microgrids</i> . Sustainability 2020, 12, 7265, WOS:000584284700001. (Q2) IF 3.251
3.	Jasim, Ali M., Basil H. Jasim, Bogdan-Constantin Neagu , and Bilal Naji Alhasnawi. "Efficient optimization algorithm-based demand-side management program for smart grid residential load." Axioms 12, no. 1 (2022): 33 WOS:000916714000001 (Q2) IF 2.000.
4.	Bogdan-Constantin Neagu , Gheorghe Grigoras, and Florina Scarlatache. "Engineering Applications of Blockchain Based Crowdsourcing Concept in Active Distribution Grids." In Smart Grid 3.0: Computational and Communication Technologies, pp. 57-76. Cham: Springer International Publishing, 2023, 2021, ISBN: 978-3-030-62190-2.
5.	Jasim, A. M., Jasim, B. H., Baiceanu, F. C., & Bogdan-Constantin Neagu (2023). <i>Optimized sizing of energy management system for off-grid hybrid solar/wind/battery/biogasifier/diesel microgrid system</i> . Mathematics, 11(5), 1248.
6.	Ivanov, Ovidiu, Mihai-Andrei Luca, Bogdan-Constantin Neagu , Gheorghe Grigoras, and Mihai Gavrilas. 2024. "Flexible Energy Storage for Sustainable Load Leveling in Low-Voltage Electricity Distribution Grids with Prosumers" Sustainability 16, no. 10: 3905. https://doi.org/10.3390/su16103905
7.	Grigoraș, Gheorghe, Maria Simona Raboaca, Catalin Dumitrescu, Daniela Lucia Manea, Traian Candin Mihaltan, Violeta-Carolina Niculescu, and Bogdan Constantin Neagu . "Contributions to power grid system analysis based on clustering techniques." Sensors 23, no. 4 (2023): 1895, WOS:000942301200001 (Q2) IF 3.900.
8.	Banu, Ioan Viorel, Fadila Barkat, Marcel Istrate, Josep M. Guerrero, George Culea, Petru Livinti, Justina G. Motas, Bogdan Constantin Neagu , and Dragos Andrioaia. "Passive anti-Islanding protection for Three-Phase Grid-Connected photovoltaic power systems." International Journal of Electrical Power & Energy Systems 148 (2023): 108946. WOS:001009658800001 (Q1) IF 2.258
9.	Grigoras, Gheorghe, and Bogdan-Constantin Neagu . "Smart meter data-based three-stage algorithm to calculate power and energy losses in low voltage distribution networks." Energies 12.15 (2019): 3008.
10.	Ovidiu Ivanov, Bogdan-Constantin Neagu , Gheorghe Grigoras, Mihai Gavrilas, <i>Optimal Capacitor Bank Allocation in Electricity Distribution Networks Using Metaheuristic Algorithms</i> . Energies 2019, 12, 4239, Accession Number: WOS:000504898500017

2. Teza(-ele) de doctorat (T1, T2)

T1. Contribuții la optimizarea structurii și regimurilor de funcționare ale rețelelor de repartitie și distribuție a energiei electrice, Domeniul: Inginerie Electrică, Data sustinerii 10.01.2014, Conducător științific: Prof. univ. dr. ing. Mircea Dan GUȘĂ

3. Brevete de invenție și alte titluri de proprietate industrială

B	Cereri de brevet de invenție depuse în țară	
	B1. Gheorghe Grigoraș, Ovidiu Ivanov, Bogdan-Constantin Neagu , Florina Scarlatache, Mihai Gavrilas, <i>Software platform for decision assistance in optimal ecological designing of electric systems, has data archiving module that allows quick identification of common characteristics of designs using data base exploring</i>	0

	<i>techniques</i> , Patent Number(s): RO133527-A0, 2018, Patent Assignee Name(s) and Code(s): UNIV IASI TEHNICA ASACHI GHEORGHE (UYIA-Non-standard), Derwent Primary Accession Number: 2019-68377H.	
	B2. Gheorghe Grigoraș, Ovidiu Ivanov, Bogdan-Constantin Neagu , Mihai Gavrilaș, Florina Scarlatache, <i>Software platform for integrated management and control of electric energy and natural gas consumption, has fourth module that is adapted for programming energy consumption based on energy consumption profiles of equipment</i> , Patent Number(s): RO132688-A0, 2017, Patent Assignee Name(s) and Code(s): UNIV IASI TEHNICA ASACHI GHEORGHE (UYIA-Non-standard), Derwent Primary Accession Number: 2019-29111P	0
	B3. Bogdan-Constantin Neagu , Bogdan Turcu, Andrei Cibotărică, - <i>Innovative Decision-Making Assistance Method Oriented to Improving Prosumers' Activity Management</i> , Patent Number(s): RO135129-A2, 2021, Patent Assignee Name(s) and Code(s): UNIV IASI TEHNICA ASACHI GHEORGHE (UYIA-Non-standard), Derwent Primary Accession Number: 2021-29561P	0

4. Cărți și capitole din cărți

a) Cărți/ cursuri/ manuale publicate în edituri recunoscute din țară sau din străinătate (Ca1, Ca2 etc.), îndrumare publicate/culegeri de probleme (I1, I2 etc.), sisteme de laborator funcționale etc. (D1, D2 etc.) cursuri proprii pe Web, sisteme e-learning etc. (W1, W2 etc.), după caz, precum și alte lucrări (M1, M2 etc.) prin care se aduc contribuții la dezvoltarea activităților didactice/ profesionale.

	Carte/ curs/ manual publicată în străinătate	Punctaj
	Ca1 Gheorghe Grigoraș, Bogdan-Constantin Neagu , Ovidiu Ivanov, Mihai Gavrilaș, Florina Scarlatache, <i>Smart Meter Data-based Strategies in the Optimal Operation of Electric Distribution Systems</i> , Lambert Academic Publishing, Riga, Lituania, 264 pag. (76 pg. Neagu), 2019, 978-620-0-50306-0.	6.08
	Ca2. Gheorghe Grigoraș, Florina Scarlatache, Bogdan-Constantin Neagu , <i>Clustering in Power Systems. Applications</i> , Lambert Academic Publishing, Germania, 264 pag. (54 pag. Neagu), 2016, ISBN: 978-3-330-01545-6.	4.32
	Ca3. Mihai Gavrilaș, Bogdan-Constantin Neagu , <i>Enhanced metaheuristic search algorithms. Applications in the management of electricity distribution systems</i> , LAP Lambert Academic Publishing, ISBN 978-620-2-51263-3, Riga, Latvia, 2020.	5.60
	Capitol carte/ curs/ manual publicat în străinătate	
	Ca4. Gheorghe Grigoras, Bogdan-Constantin Neagu , (2026). <i>Data Mining-Based Approaches in the Power Quality Analysis</i> . In <i>Explainable Artificial Intelligence for Trustworthy Decisions in Smart Applications</i> (pp. 257-282). Cham: Springer International Publishing, ISBN: 978-3-031-97007-8.	0.78
	Ca5. Gheorghe Grigoras, Bogdan-Constantin Neagu , Noroc, L., Chelaru, E. (2023). <i>New smart devices-based strategies for optimal planning and operation of active electric distribution networks</i> . <i>Power System Strength: Evaluation Methods, Best Practice, Case Studies, and Applications</i> , 221-254, The Institution of Engineering and Technology, London, United Kingdom, ISBN: 978-1-83953-808-7.	0.39
Ca	Ca6. Neagu, Bogdan-Constantin , Gheorghe Grigoras, and Florina Scarlatache. "Engineering Applications of Blockchain Based Crowdsourcing Concept in Active Distribution Grids." <i>Smart Grid 3.0: Computational and Communication Technologies</i> . Cham: Springer International Publishing, 2023. 57-76.	0.40
	Ca7. Grigoras, Gheorghe, Bogdan-Constantin Neagu , and Florina Scarlatache. "Data Mining-Based Approaches in the Power Quality Analysis." In <i>Smart Grid 3.0: Computational and Communication Technologies</i> , pp. 93-119. Cham: Springer International Publishing, 2023.	0.52
	Ca8. Gheorghe Grigoraș, Bogdan-Constantin Neagu , <i>Regression Analysis-Based Load Modelling for Electric Distribution Networks</i> , Capitol in cartea <i>Numerical Methods for Energy Applications</i> , Editori: Naser Mahdavi Tabatabaei, Nicu Bizon, Springer International Publishing, Switzerland, (27 pag.), 2021, pp. ISBN: 978-3-030-62190-2	0.81
	Ca9. Eduard Lunca, Bogdan-Constantin Neagu , Silviu Vornicu, <i>Finite Element Analysis of Electromagnetic Fields Emitted by Overhead High-Voltage Power Lines</i> , In <i>Numerical Methods for Energy Applications</i> , Editori: Naser Mahdavi Tabatabaei, Nicu Bizon, Springer International Publishing, Switzerland, Capitolul 29, (26 pag.), 2021, ISBN: 978-3-030-62190-2	0.52
	Ca10. Bogdan-Constantin Neagu , Gheorghe Grigoraș, <i>Decision-Making Strategies with Clustering Based Unsupervised Learning for Smart Grids Planning</i> , Capitol in cartea <i>An Introduction to Approaches and Modern Applications with Ensemble Learning</i> , Editor: Yi-Tung Chan, Nova Science Publishers, USA, (40 pag.), 2020, ISBN: 978-1-53618-680-2	1.20

	Ca11. Gheorghe Grigoraș, Ovidiu Ivanov, Bogdan-Constantin Neagu , Pragma Kar, Smart Metering Based Strategies for Improving Energy Efficiency in Microgrid, Capitol in cartea Microgrid Architectures, Control and Protection Methods, Editori: Naser Mahdavi Tabatabaei, Ersan Kabalci, Nicu Bizon, Springer International Publishing, Switzerland, 2020, (28 pag.), ISBN: 978-3-030-23722-6.	0.42
	Ca12. Bogdan-Constantin Neagu , Mihai Gavrilaș, Optimal Placement of Energy Storage Systems in Prosumer Microgrids, Capitolul 7 in cartea Advances in Engineering Research, Editor Victoria M. Petrova, Nova Science Publishers, USA, 2020, pp. 253 – 273, ISBN: 978-1-53618-508-9	0.60
	Ca13. Bogdan-Constantin Neagu , Gheorghe Grigoraș, Ovidiu Ivanov, The Optimal Operation of Active Distribution Networks based on Smart Metering, Capitol in cartea Advanced Communication and Control Methods for Future Smartgrid, Editor: Taha Selim Ustun, IntechOpen, Londra, UK, 2019, (24 pag.) ISBN: 978-1-78984-105-3	0.48
	Ca14. Bogdan-Constantin Neagu , Gheorghe Grigoraș, The Assessment of Power Quality in Electric Distribution Systems from Romania, capitol in cartea Advances in Energy Research, Editor Morena J. Acosta, Nova Science Publishers, USA, (55 pag.), 2017, ISBN: 978-1-53612-699-0.	1.65
	Carte/ curs/ manual publicată în editură recunoscută CNCS (unic/ prim autor sau co-autor)	
	Ca15. Bogdan-Constantin Neagu , <i>Structura rețelelor de transport și distribuție a energiei electrice</i> , Editura PIM, Iași, Romania, 2025, ISBN 978-606-13-9637-5.	15.70
	Ca16. Bogdan-Constantin Neagu , Gheorghe Georgescu, Strategia planificării sistemelor de distribuție, vol. 1, Edit. PIM, Iași, Romania, 2017, ISBN 978-606-13-3994-5, 290 pag.	7.25
	Ca17. Gheorghe Georgescu, Bogdan-Constantin Neagu , <i>Analiza regimurilor permanente de funcționare ale rețelelor electrice din sistemul electroenergetic</i> , Vol. 2, Ed. PIM, Iași, 2014, (596 pag), ISBN 978-606-13-2128-5.	7.45
	Cb18. Gheorghe Georgescu, Bogdan-Constantin Neagu , <i>Analiza regimurilor permanente de funcționare ale rețelelor electrice din sistemul electroenergetic</i> , Vol. 1, Ed. PIM, Iași, 2014, (568 pag), ISBN 978-606-13-2127-8.	7.10
	Cb19. Gheorghe Georgescu, Bogdan-Constantin Neagu , <i>Proiectarea și exploatarea asistată de calculator a sistemelor publice de repartiție și distribuție a energiei electrice</i> , Vol. 2, Editura Pim, Iași, 2012, (566 pag.), ISBN 978-606-13-088-6-6.	5.66
	Cb20. Gheorghe Georgescu, Bogdan-Constantin Neagu , Romeo Ciobanu, <i>Proiectarea și exploatarea asistată de calculator a sistemelor publice de repartiție și distribuție a energiei electrice</i> , Vol. 1, partea a-II-a, Ed. Pim, Iași, 2011, (586 pag), ISBN 978-606-13-0148-5.	4.40
	Cb21. Gheorghe Georgescu, Bogdan-Constantin Neagu , <i>Proiectarea și exploatarea asistată de calculator a sistemelor publice de repartiție și distribuție a energiei electrice</i> , Vol. 1, partea I-a, Ed. Fundației Academice AXIS, Iași, 2010, (452 pag), ISBN 978-973-7742-87-2.	4.52
	Capitol curs/ manual publicat în editură recunoscută CNCS	
	...	
	Îndrumar/ culegere de probleme (publicat sau disponibil pe Web)	
I	I1. Bogdan-Constantin Neagu , <i>Transportul și distribuția energiei electrice. Analiza asistată de calculator</i> , Publicare online, Iași, 2024, www.bogdan-neagu.ieeia.tuiasi.ro/soft (234 pag).	9.36
	I2. Bogdan-Constantin Neagu , <i>Transportul și distribuția energiei electrice. Lucrări practice de laborator</i> , Publicare online, Iași, 2024, www.bogdan-neagu.ieeia.tuiasi.ro/aplicatii (346 pag).	13.84
	I3. Bogdan-Constantin Neagu , <i>Transportul și distribuția energiei electrice II. Lucrări de laborator bazate pe simulări software</i> , Editura PIM, Iași, Romania, 2021, ISBN 978-606-13-5340-8. (128 pag.)	5.12
	Sisteme de laborator funcționale	
D	D1. Bogdan-Constantin Neagu , Calculul regimului permanent utilizând metoda tensiunilor nodale (soft C#).	1.5
	D2. Bogdan-Constantin Neagu , Modelarea consumatorilor din nodurile sistemelor de distribuție a energiei electrice (soft Matlab).	1.5
	D3. Bogdan-Constantin Neagu , Calculul mecanic al liniilor electrice aeriene (soft C#).	1.5
	D4. Bogdan-Constantin Neagu , Calculul indicatorilor caracteristici ai curbelor de sarcină (soft Python).	1.5
	D5. Bogdan-Constantin Neagu , Calculul pierderilor de putere și energie în rețelele de distribuție (soft C#).	1.5
	D6. Bogdan-Constantin Neagu , Determinarea parametrilor caracteristici ai regimului deformant (soft C#).	1.5

	D7. Contribuții la dotarea laboratoarelor. Modernizare tehnologie didactică în valoare de 126237 lei (25247 Euro) în perioada 2019 – 2023 (conform Fisa Autoevaluare 2024)	36.06
W	Utilizarea sistemelor de predare/ învățare/ evaluare de tip e-learning/ on-line/ multimedia etc.	
	W1 Bogdan-Constantin Neagu, Transportul și Distribuția Energiei Electrice, Note de curs (284 pag pptx), , 2023 (www.bogdan-neagu.iecea.tuiasi.ro/didactic/tdee)	2.84

b) Cărți/ capitole cărți de specialitate publicate în edituri recunoscute din țară sau din străinătate (Cb1, Cb2 etc.),

Cb	Carte de specialitate publicată în editură din străinătate	Punctaj
	Capitol carte de specialitate publicată în editură din străinătate	
	Carte de specialitate/ capitol publicat în editură din țară, recunoscută CNCS	
	Cb1. Ivas Dumitru, Bogdan-Constantin Neagu , Atudori Monica, <i>100 de ani de învățământ electrotehnic la Iași</i> , capitol în cartea Formarea specialiștilor sistemului energiei electrice si termice din Romania, coord. Zonel Vasiliu, Editura AGIR, București, Romania, 2017, ISBN 978-973-720-680-0, (103 pag. Neagu B.C.).	8.24

5. Articole/ studii publicate în reviste din țară/ străinătate, cu factor de impact/ indexate în BDI/ neindexate în BDI (R1, R2 etc.), creații artistice prezentate la manifestări recunoscute din țară/ străinătate (A1, A2 etc.), articole/ studii publicate în volumele manifestărilor științifice naționale/ internaționale indexate BDI/ neindexate BDI (V1, V2 etc.), după caz, precum și alte lucrări (N1, N2 etc.) prin care se aduc contribuții științifice la dezvoltarea domeniului.

R	Articol publicat în revistă cotate ISI, cu factor de impact	
	R1. Grigoras, Gheorghe, Bogdan Livadariu, and Bogdan-Constantin Neagu . "Data Clustering-Driven Fuzzy Inference System-Based Optimal Power Flow Analysis in Electric Networks Integrating Wind Energy." <i>Processes</i> 13.3 (2025): 676.	2.00
	R2. Grigoras, G., Gârbea, R., Bogdan-Constantin Neagu (2024). Toward Smart SCADA Systems in the Hydropower Plants through Integrating Data Mining-Based Knowledge Discovery Modules. <i>Applied Sciences</i> , 14(18), 8228.	2.00
	R3. Ivanov, O., Luca, M. A., Neagu, B. C. , Grigoras, G., & Gavrilas, M. (2024). Flexible Energy Storage for Sustainable Load Leveling in Low-Voltage Electricity Distribution Grids with Prosumers. <i>Sustainability</i> , 16(10), 3905.	1.20
	R4. Grigoraș, G., Raboaca, M. S., Dumitrescu, C., Manea, D. L., Mihaltan, T. C., Niculescu, V. C., & Neagu, B. C. (2023). Contributions to power Grid system analysis based on clustering techniques. <i>Sensors</i> , 23(4), 1895.	0.86
	R5. Parekh, R., Patel, N., Gupta, R., Jadav, N. K., Tanwar, S., Alharbi, A., Neagu, B. C. & Raboaca, M. S. (2023). Gefl: Gradient encryption-aided privacy preserved federated learning for autonomous vehicles. <i>IEEE Access</i> , 11, 1825-1839.	0.75
	R6. Jasim, A. M., Jasim, B. H., Baiceanu, F. C., Neagu, B. C. (2023). Optimized sizing of energy management system for off-grid hybrid solar/wind/battery/biogasifier/ diesel microgrid system. <i>Mathematics</i> , 11(5), 1248.	1.50
	R7. Jasim, A. M., Jasim, B. H., Neagu, B. C. , & Attila, S. (2023). Electric Vehicle Battery-Connected Parallel Distribution Generators for Intelligent Demand Management in Smart Microgrids. <i>Energies</i> , 16(6), 2570.	1.50
	R8. Banu, I. V., Barkat, F., Istrate, M., Guerrero, J. M., Culea, G., Livinti, P., Neagu, B. C. & Andrioaia, D. (2023). Passive anti-Islanding protection for Three-Phase Grid-Connected photovoltaic power systems. <i>International Journal of Electrical Power & Energy Systems</i> , 148, 108946.	0.75
	R9. Baiceanu, F. C., Ivanov, O., Beniuga, R. C., Neagu, B. C. , & Nemes, C. M. (2023). A Continuous Multistage Load Shedding Algorithm for Industrial Processes Based on Metaheuristic Optimization. <i>Mathematics</i> , 11(12), 2684.	1.20
	R10. Patel, D. H., Shah, K. P., Gupta, R., Jadav, N. K., Tanwar, S., Neagu, B. C. , ... & Tolba, A. (2023). Blockchain-Based Crop Recommendation System for Precision Farming in IoT Environment. <i>Agronomy</i> , 13(10), 2642.	0.67
	R11. Patel, J., Ruparelia, A., Tanwar, S., Alqahtani, F., Tolba, A., Sharma, R., ... & Neagu, B. C. (2023). Deep Learning-Based Model for Detection of Brinjal Weed in the Era of Precision Agriculture. <i>Computers, Materials & Continua</i> , 77(1)	0.75
	R12. Hathaliya Jigna, Hetav Modi, Rajesh Gupta, Sudeep Tanwar, Fayeze Alqahtani, Magdy Elghatwary, Bogdan-Constantin Neagu și Maria Simona Raboaca. "Stacked Model-Based Classification of Parkinson's Disease Patients Using Imaging Biomarker Data." <i>Biosensors</i> 12, no. 8 (2022): 579.	0.75

R13. Hathaliya Jigna, Raj Parekh, Nisarg Patel, Rajesh Gupta, Sudeep Tanwar, Faye Alqahtani, Magdy Elghatwary, Ovidiu Ivanov, Maria Simona Raboaca, and Bogdan-Constantin Neagu . "Convolutional Neural Network-Based Parkinson Disease Classification Using SPECT Imaging Data." <i>Mathematics</i> 10, no. 15 (2022): 2566.	0.60
R14. Kumar Sandeep, Shilpa Rani, Arpit Jain, Chaman Verma, Maria Simona Raboaca, Zoltán Illés, and Bogdan Constantin Neagu . "Face Spoofing, Age, Gender and Facial Expression Recognition Using Advance Neural Network Architecture-Based Biometric System." <i>Sensors</i> 22, no. 14 (2022): 5160.	0.86
R15. Sandesara Mudita, Umesh Bodkhe, Sudeep Tanwar, Mohammad Dahman Alshehri, Ravi Sharma, Bogdan-Constantin Neagu , Gheorghe Grigoras, and Maria Simona Raboaca. "Design and Experience of Mobile Applications: A Pilot Survey." <i>Mathematics</i> 10, no. 14 (2022): 2380.	0.75
R16. Kaur Manpreet, Shikha Gupta, Deepak Kumar, Chaman Verma, Bogdan-Constantin Neagu , and Maria Simona Raboaca. "Delegated Proof of Accessibility (DPoAC): A Novel Consensus Protocol for Blockchain Systems." <i>Mathematics</i> 10, no. 13 (2022): 2336.	1.00
R17. Mankodiya Harsh, Dhairya Jadav, Rajesh Gupta, Sudeep Tanwar, Abdullah Alharbi, Amr Tolba, Bogdan-Constantin Neagu , and Maria Simona Raboaca. "XAI-Fall: Explainable AI for Fall Detection on Wearable Devices Using Sequence Models and XAI Techniques." <i>Mathematics</i> 10, no. 12 (2022): 1990.	0.75
R18. Tanwar Sudeep, Aparna Kumari, Darshan Vekaria, Maria Simona Raboaca, Faye Alqahtani, Amr Tolba, Bogdan-Constantin Neagu , and Ravi Sharma. "GrAb: A deep learning-based data-driven analytics scheme for energy theft detection." <i>Sensors</i> 22, no. 11 (2022): 4048.	0.75
R19. Kalariya Vasu, Pushpendra Parmar, Patel Jay, Sudeep Tanwar, Maria Simona Raboaca, Faye Alqahtani, Amr Tolba, and Bogdan-Constantin Neagu . "Stochastic Neural Networks-Based Algorithmic Trading for the Cryptocurrency Market." <i>Mathematics</i> 10, no. 9 (2022): 1456.	0.75
R20. Grigoraş Gheorghe, Bogdan-Constantin Neagu , Ovidiu Ivanov, Bogdan Livadariu, and Florina Scarlatache. "A New SQP Methodology for Coordinated Transformer Tap Control Optimization in Electric Networks Integrating Wind Farms." <i>Applied Sciences</i> 12, no. 3 (2022): 1129.	1.20
R21. Jasim Ali M., Basil H. Jasim, Bogdan-Constantin Neagu , and Bilal Naji Alhasnawi. "Coordination Control of a Hybrid AC/DC Smart Microgrid with Online Fault Detection, Diagnostics, and Localization Using Artificial Neural Networks." <i>Electronics</i> 12, no. 1 (2022): 187.	1.50
R22. Jasim, Ali M., Basil H. Jasim, Bogdan-Constantin Neagu , and Bilal Naji Alhasnawi. "Efficient Optimization Algorithm-Based Demand-Side Management Program for Smart Grid Residential Load." <i>Axioms</i> 12, no. 1 (2022): 33.	1.50
R23. Jasim, Ali M., Basil H. Jasim, and Bogdan-Constantin Neagu . "A new decentralized PQ control for parallel inverters in grid-tied microgrids propelled by SMC-based buck–boost converters." <i>Electronics</i> 11, no. 23 (2022): 3917.	2.00
R24. Kakkar Riya, Rajesh Gupta, Smitta Agrawal, Sudeep Tanwar, Ravi Sharma, Ahmed Alkhayat, Bogdan-Constantin Neagu , and Maria Simona Raboaca. "A Review on Standardizing Electric Vehicles Community Charging Service Operator Infrastructure." <i>Applied Sciences</i> 12, no. 23 (2022): 12096.	0.75
R25. Munshi Manushi, Manan Patel, Faye Alqahtani, Amr Tolba, Rajesh Gupta, Nilesh Kumar Jadav, Sudeep Tanwar, Bogdan-Constantin Neagu , and Alin Dragomir. "Artificial Intelligence and Exploratory-Data-Analysis-Based Initial Public Offering Gain Prediction for Public Investors." <i>Sustainability</i> 14, no. 20 (2022): 13406.	0.67
R26. Mankodiya Harsh, Priyal Palkhiwala, Rajesh Gupta, Nilesh Kumar Jadav, Sudeep Tanwar, Bogdan-Constantin Neagu , Gheorghe Grigoras, Faye Alqahtani, and Ahmed M. Shehata. "A Real-Time Crowdsensing Framework for Potential COVID-19 Carrier Detection Using Wearable Sensors." <i>Mathematics</i> 10, no. 16 (2022): 2927.	0.67
R27. Ovidiu Ivanov; Bogdan-Constantin Neagu ; Gheorghe Grigoras; Scarlatache, Florina; Gavrilas, Mihai, A Metaheuristic Algorithm for Flexible Energy Storage Management in Residential Electricity Distribution Grids. <i>Mathematics</i> 2021, 9, 2375. WOS:000628360103201	1.20
R28. Gherghe Grigoras, Bogdan-Constantin Neagu , Florina Scarlatache, Livia Noroc, Ecaterina Chelaru, Bi-Level Phase Load Balancing Methodology with Clustering-Based Consumers' Selection Criterion for Switching Device Placement in Low Voltage Distribution Networks, <i>Mathematics</i> , vol. 9, nr. 5, 542, 2021, Accession Number: WOS:000628360100001	1.20
R29. Gheorghe Grigoraş, Livia Noroc, Ecaterina Chelaru, Florina Scarlatache, Bogdan-Constantin Neagu , Ovidiu Ivanov, Mihai Gavrilas, Coordinated Control of Single-Phase End-Users for Phase Load Balancing in Active Electric Distribution Networks, <i>Mathematics</i> , vol. 9, nr. 21, 2662, 2021, Accession Number: WOS:000719474900001 (Q1)	0.86
R30. Alexandru Kriukov, Mihai Gavrilas, Ovidiu Ivanov, Gherghe Grigoras, Bogdan-Constantin Neagu , Florina Scarlatache, Novel Decentralized Voltage-Centered EV Charging Control Algorithm Using DSRC System in Low Voltage Distribution Networks, <i>IEEE Access (Early Access)</i> , Decembrie 2021, doi: 10.1109/ACCESS.2021.3132419 (Q2)	1.00

R31. Ovidiu Ivanov, Bogdan-Constantin Neagu , Mihai Gavrilaș, Gheorghe Grigoraș, A Phase Generation Shifting Algorithm for Prosumer Surplus Management in Microgrids using Inverter Automated Control, Electronics, vol. 10, nr. 22, 2740, 2021, WOS:000727513800001 (Q3)	1.50
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6. Publicații apărute în lucrări ale principalelor conferințe internaționale de specialitate

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V104.	Bogdan-Constantin Neagu , Gheorghe Georgescu, Ovidiu Ivanov, The impact of harmonic current flow on additional power losses in low voltage distribution networks, 2016 International Conference and Exposition on Electrical and Power Engineering (EPE 2016), pp.719-722, Iaşi, România, 20-22 Oct. 2016, WOS:000390706300143	1.33
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7. Proiecte de cercetare-dezvoltare (P1, P2 etc.) pe bază de contract/ grant, precum și alte lucrări de cercetare-dezvoltare (F1, F2 etc.), după caz, prin care se aduc contribuții la dezvoltarea mediului educațional/ cultural/ economic/ social etc.

	Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câștigate prin competiție internațională	Punctaj
P	P1. Platformă software inovativă pentru managementul energetic al consumatorilor finali în vederea creșterii eficienței energetice și a reducerii emisiilor de carbon, Grant PN-III-P2-2.1-CI-2018-1017, Contract nr. 174CI din 04/07/2018, Beneficiar: UEFISCDI, Valoare: valoare 49990 lei, Neagu B.C. (Director)	0
	P2. Management inteligent a centralelor electrice virtuale cu ajutorul platformelor software bazate pe inteligența artificială, în contextul competitivității energetice Europene, Grant PN-III-P2-2.1-CI-2018-1011, Contract nr. 173CI din 02/07/2018, Valoare: 49750 lei, Neagu B.C. (Director)	0
	P3. Dezvoltarea instituțională a TUIASI prin creșterea vizibilității și a performanței cercetării, (TUIASI-COMPETE), Grant PNIII-1.2.PDI-PFC-C1-2018, Contract nr. 9PFE din 18/10/2018, Beneficiar: UEFISCDI, Valoare: 4530000 lei. Tema: Platformă software de asistență decizională orientată spre eficientizarea managementului activității furnizorilor de energie electrică. Neagu B.C. (Responsabil Tema 9)	0
	P4. SustainX: Fostering Sustainable Digital Innovation Investment, proiect tip I3-2023-Cab2b, nr.101180410/31.10.2024, Expert senior, 2025-2026.	0
	P5. PEO/71/PEO_P7/OP4/ESO4.5/PEO_A49 / ID312314 / "e3-Practica - Stagii de practică pentru studenții înmatriculați în cadrul programelor de studii din domeniile ingineriei electrotehnice, electronice și energetice", Coordonator acțiuni grup țintă, 2025-2026.	0
	P6. Holistica impactului surselor regenerabile de energie asupra mediului și climei- HORESEC, Grant PN-III-P1-1.2-PCCDI-2017-0404 / 31PCCDI/2018, Director Proiect Cornel Panait, Coordonator Universitatea Maritimă din Constanța, Durata 33 de luni. Valoare totală 5.287.500 lei. Neagu B.C. (Member) .	0
	P7. Platforma software de asistare a deciziilor în proiectarea ecologică optimă a instalațiilor electrice cu producere și stocare locală a energiei, în contextul creșterii eficienței energetice, Grant PN-III-P2-2.1-CI-2018-1128, Contract 192CI/25.07.2018, Beneficiar: UEFISCDI, Valoare: 50.000 lei, 2018, Neagu B.C. (Member)	0
	P8. Platforma de management și control integrat al fluxurilor purtătorilor de energie în scopul creșterii eficienței energetice la IMM-uri, Grant PN-III-P2-2.1-CI-2017-0190, Contract 105CI/25.07.2017, Beneficiar: UEFISCDI, Valoare: 50.000 lei, 2017, Neagu B.C. (Member)	0
	P9. Platforma software de asistare a deciziilor în proiectarea ecologică optimă a instalațiilor electrice cu producere și stocare locală a energiei, în contextul creșterii eficienței energetice, Grant PN-III-P2-2.1-CI-2018-1128, Contract 192CI/25.07.2018, Beneficiar: UEFISCDI, Valoare: 50.000 lei, 2018, Neagu B.C. (Member)	0
	P10. Platforma de management și control integrat al fluxurilor purtătorilor de energie în scopul creșterii eficienței energetice la IMM-uri, Grant PN-III-P2-2.1-CI-2017-0190, Contract 105CI/25.07.2017, Beneficiar: UEFISCDI, Valoare: 50.000 lei, 2017, Neagu B.C. (Member)	0
	P11. Instrument software pentru gestiunea tranzacțiilor pe piața de energie electrică, Grant PN-III-P2-2.1-CI-2017-0328, Contract 45CI/25.07.2017, Valoare: 50.000 lei, 2017, Neagu B.C. (Member)	0
	P12. Zone urbane bioclimatice inteligente cu emisii reduse de carbon ca insule inovatoare energetic într-un oraș durabil (SMART URBAN ISLE). Contract 83/2016 - ERA NET Cofund-83/2016-2018. Valoare proiect: 710.968,5 lei, Neagu B.C. (Member) .	0
	P13. Nanomateriale și arhitecturi inovatoare pentru aplicații integrate de captare a energiei piezoelectrice (HarvEnPiez), Contract 50/2016, Proiect Era Net.Nivel internațional. Valoare proiect: 447.750 lei, Neagu B.C. (Member) .	0
	P14. Senzori integrați cu caracteristici microfluidice folosind tehnologia LTCC", (INTCERSEN), Contract 9/2015, Proiect internațional Era Net. Valoare proiect: 468.000 lei, Neagu B.C. (Member) .	0
	P15. Tehnologii inovative de asamblare – dezasamblare a componentelor nemetalice industriale, bazate pe adezivi electro - activi nano-structurați, Contract de cercetare nr. 7-042/09.05.2011 (MAGBOND), beneficiar Universitatea Tehnică „Gheorghe Asachi” din Iași, durata contractului 2011-2012. (valoare 1.122.730 RON - 249.496 EUR), Neagu B.C. (Member) .	0
	P16. Dezvoltarea de bio-senzori prin intermediul unei tehnologii inovative de electro - acoperire a structurilor carbonice cu polimeri activi. Contract de cercetare nr. 7-038/13.05.2011 (CARBIOSENSE), beneficiar Universitatea Tehnică „Gheorghe Asachi” din Iași, durata contractului 2011-2013. (valoare 1.079.300 RON - 239.844 EUR), Neagu B.C. (Member)	0
	P17. Școala Universitară de formare inițială și continuă a personalului didactic și a trainerilor din domeniul specializărilor tehnice și ingineresti – DidaTec, Contract POSDRU / 87 / 1.3 / S / 6089, beneficiar Universitatea Tehnică „Gheorghe Asachi” din Iași, durata contractului 2012-2013. Neagu B.C. (Member)	0

	P18. Specializarea personalului didactic universitar pentru functia de supervizor de practica tehnologica si de cercetare, Cod contract: 57/1.3/S/17884, beneficiar Universitatea Tehnică „Gheorghe Asachi” din Iași, durata contractului 2010-2012. Neagu B.C. (Member)	0
	Proiecte/ Contracte/ Granturi de cercetare-dezvoltare câștigate prin competiție națională sau încheiate cu institute de cercetare, companii, regii, societăți comerciale	
	P19. Prognoza de consum propriu tehnologic pentru rețeaua de energie electrica din zona de activitate a Delgaz Grid. S.A. pentru anul 2019, Contract nr. 1305P / 14.02.2019; beneficiar: Delgaz Grid.S.A, Valoare: 7500 euro, Neagu B.C. (Member)	0
	P20. Prognoza de consum propriu tehnologic pentru rețeaua de energie electrica din zona de activitate a Delgaz Grid. S.A. pentru anul 2018., Contract nr. 3105P / 14.02.2018; beneficiar: Delgaz Grid. S.A ,Valoare:9981 euro, Neagu B.C. (Member)	0
	P21. Prestări servicii cercetare: prelucrare MST instantanee și stabilire locatii MST 1 zi, Contract nr. 12697/05.07.2017, beneficiar: Delgaz Grid S.A, valoare 9783 lei, Neagu B.C. (Member) .	0
	P22. Prognoza de consum propriu tehnologic pentru rețeaua de energie electrica din zona de activitate a Delgaz Grid. S.A., Contract nr. 448P / 15.03.2017; beneficiar: Delgaz Grid. S.A ,Valoare: 44888 lei, Neagu B.C. (Member)	0
	P23. Elaborare studiu - Servicii de consultanță de specialitate în proiectul EON Moldova Distribuție de reducere a pierderilor tehnice în rețelele de distribuție a energiei electrice pentru perioada 2016; Contract nr. 684P / 21.04.2016; beneficiar: EON Distribuție Romania S.A., Valoare: 60000 lei, Neagu B.C. (Member) .	0
	P24. Servicii de consultanță de specialitate în proiectul EON Moldova Distribuție de reducere a pierderilor tehnice în rețelele de distribuție, Contract nr. 1398P / 08.10.2014, beneficiar: E.ON Moldova Distribuție S.A., Valoare: 194000 lei, Neagu B.C. (Member) .	0
	P25. Studiu de determinare a consumului propriu tehnologic în rețelele de joasă tensiune aferente jud. Bacău, aparținând E.ON Moldova Distribuție S.A, Contract de cercetare nr. 3564P / 01.11.2011, 2011, beneficiar: E.ON Moldova Distribuție S.A, Valoare: 50000 lei, Neagu B.C. (Member)	0
	P26. Contract cercetare nr. 1265P/2010 , Analiza structurii și a posibilităților de reconfigurare în regimurile post avarie a rețelelor electrice, a calității energiei electrice livrate consumatorilor, prognoza sarcinilor, dimensionarea optimă din punct de vedere tehnico-economic a elementelor componente, precum și calculul regimurilor simetrice, a regimurilor de avarie (scurtcircuite) și a regimurilor deformante care apar în sistemele de repartiție și distribuție a energiei electrice (valoare 3500 RON + TVA). Neagu B.C. (Member) .	0

8. Alte lucrări și contribuții științifice sau, după caz, din domeniul creației artistice

	Alte lucrări de proiectare-cercetare-dezvoltare	
F	F1	
	...	

Note:

(1) Fiecare lucrare este prezentată, în limba în care a fost publicată / expusă, corespunzător structurii "I, II, III, IV, V, VI", unde:

I - indicativul (T1, T2 etc.; Ca1, Ca2 etc.; ...), care se scrie "bold" la lucrările realizate după acordarea ultimului titlu didactic/ grad profesional (**Ca1, I1** etc., după caz);

II - autorii în ordinea din publicație, cu scriere "bold" **a candidatului**;

III - *titlul*, scris "italic";

IV - editura sau revista sau manifestarea și/sau alte elemente de localizare, după caz;

V - intervalul de pagini din publicație, respectiv, pp ...-..., numărul total de pagini, respectiv, ... pg., sau alte date similare, după caz;

VI - anul sau perioada de realizare, după caz;

(2) În cadrul fiecărui grup de lucrări (Ca1, Ca2 etc.; I1, I2 etc. ; ...), lucrările sunt în ordine invers cronologică;

(3) În cazul în care o grupă de lucrări nu se regăsește în activitatea candidatului, respectiva grupă poate fi eliminată din listă;

(4) Candidații au libertatea să completeze lista și cu alte grupe de lucrări.

Data: 12.01.2026

Candidat,
Conf.univ.dr.ing. Bogdan-Constantin NEAGU