



LISTA DE LUCRĂRI

dr. ing. DAN Florin Ciprian

1. Teza de doctorat:

DAN, F. – *Contribuții la identificarea, optimizarea și prognoza consumului de energie electrică*, conducător științific prof. dr. ing. Ioan Felea, Universitatea din Oradea, 2011

2. Cărți și capitole de cărți de specialitate:

A) Cărți cu ISBN / capitole ca autor:

2.A1. Hora C., **Dan F.** – *Utilizarea energiei apelor*. Editura Universității din Oradea, 2012, (ISBN 978-606-10-0241-2, 247 pagini).

2.A2. **Dan F.**, Hora C. – *Prognoza generării de energie din surse regenerabile*. Editura Universității din Oradea, 2022, (ISBN 978-606-10-2220-5, 250 pagini)

B) Manuale, suport de curs, inclusiv electronic:

2.B1. **Dan F.** - *Pachete software utilizate in energetica* (format electronic, 130 pagini)

3. Articole publicate în reviste:

A) Articole publicate în reviste cotate WOS:

3.A1. Badea, G.E.; Hora, C.; Maior, I.; Cojocaru, A.; Secui, C.; Filip, S.M.; **Dan, F.C.** *Sustainable Hydrogen Production from Seawater Electrolysis: Through Fundamental Electrochemical Principles to the Most Recent Development*. *Energies* 2022, 15, 8560. <https://doi.org/10.3390/en15228560> factor de impact: 3,252; Accession Number WOS:000887263700001

3.A2. Hora, C.; **Dan, F.C.**; Rancov, N.; Badea, G.E.; Secui, C. – *Main Trends and Research Directions in Hydrogen Generation Using Low Temperature Electrolysis: A Systematic Literature Review*. *Energies* 2022, 15, 6076. <https://doi.org/10.3390/en15166076>, factor de impact: 3,252; Accession Number WOS:000846066500001

3.A3. Hora C., **Dan F.C.**, Bendea G., Secui C. – *Residential Short-Term Load Forecasting during Atypical Consumption Behavior* *Energies* 15, no. 1: 291, 2022. <https://doi.org/10.3390/en15010291>, factor de impact: 3,252; Accession Number WOS:000758594200001

3.A4. Felea I., **Dan F.**, Dzițac S. – *Consumers load profile classification correlated to the electric energy forecast*, *Proceedings of the Romanian Academy, Series A*, Editura Academiei Romane – 2011, www.webofscience.com factor de impact: 1.402; Accession Number WOS:000302198800011



B) Articole publicate în reviste indexate în baze de date internaționale recunoscute (BDI):

- 3.B1. Felea I., Secui C., Goia E., **Dan F.**, *Experimental Research on Electromagnetic Disturbance Level in A Thermoelectric Power Station*, The 6th WSEAS International Conference on Energy, Enviroment, Ecosystems and Sustainable Development (EEESD'10), University of Timisoara, Faculty of Electrical and Power Engineering, October 21-23, 2010, România, ISSN: 1792:5924, pg. 399-403, Baza de date: Scopus, (BDI)
- 3.B2. Gligor E., Ionescu G.C., **Dan F.**, Ionescu G.L., Sambeteanu A. – *Mud treatment processer and biogas production at Oradea wastewater treatment plant*, Analele Universității din Oradea, Fascicula Construcții și instalații hidroedilitare, vol. XIII, 2010, pg. 295-305 – iulie – 2010
- 3.B3. Gligor E., Ionescu G.C., **Dan F.**, Ionescu G.L., Sambeteanu A. – *Optimization and profitability of fermentation gas production facilities in wastewater treatment plants, using unconvetional sources*, Analele Universității din Oradea, Fascicula Construcții și instalații hidroedilitare ,vol. XIII, 2010, pg. 305-311 – iulie – 2010
- 3.B4. Ionescu G.L., Gligor E., Ionescu G.C., Blaga C.A., **Dan F.** – *Aeration control and dissolved oxygen at Oradea wastewater treatment system*, Analele Universității din Oradea, Fascicula Construcții și instalații hidroedilitare, vol. XIII, 2010, pg. 339-349 – iulie – 2010
- 3.B5. Ionescu G.C., Gligor E., Ionescu G.L., Blaga C.A., **Dan F.** – *Observation regarding the chemical precipitation at Oradea wastewater treatment system*, Analele Universității din Oradea, Fascicula Construcții și instalații hidroedilitare , vol. XIII, 2010, pg. 349-359 – iulie – 2010
- 3.B6. Gligor E.,**Dan F.**,Ionescu G.L.,Blaga C.A.- *Considerations relating to the integrated control of water station*, Analele Universității din Oradea, Fascicula Construcții și instalații hidroedilitare , vol. XIII-2, 2010, pg. 349-359 – noiembrie – 2010
- 3.B7. Gheorghe - Constantin Ionescu, Emil Gligor, **Florin Dan**, *Determinarea factorilor de influență ai consumului de energie electrică în Stația de epurare Oradea/Determining factors that influence energy consumption in Oradea WWTP* – Revista Română de Inginerie Civilă, Volumul 3 (2012) nr. 1.
- 3.B8. Emil Gligor, George – Lucian Ionescu, Cristina Hora, **Florin Dan** – *Study on the operation optimization of a treatment plant that is treating the waste waters resulting from electroplating processes* – Conferința Tehnico-Științifică “Performanța în serviciile de apă-canal”, Vol. Performanța în serviciile de apă-canal, pg. 156-163, Palatul Parlamentului, București, 16-18 Iunie 2014
- 3.B9. Felea I. , Secui D. C., Mușet A., **Dan F.**, - *Risk assessment of the damage on the human body exposed to electromagnetic field of educational institutions*, Jurnal of Sustainable Energy, vol. I, nr.2, pg. 55-59 – iulie – 2010.
- 3.B10. Felea I., Csuzi I., Dale E., **Dan F.** – *Assesment of energy efficiency for urban electric transport systems*, Jurnal of Sustainable Energy, vol. I, nr.3, pg. 81-88 – noiembrie – 2010



- 3.B11. Felea I. , Dan F. – *Methodological issues and results obtained from an energy auditing of a foundry*, Jurnal of Sustainable Energy, vol. I, nr.3, pg. 88-95 – noiembrie – 2010
- 3.B12. Felea I. , Dan F. – *Summary of the energy audit performed on the machines that develop aluminium parts by injection*, Jurnal of Sustainable Energy, vol. I, nr.4, pg. 53-60 – 2010
- 3.B13. Felea I., Yannig Goude, Dan F. – *Electric energy forecast for the industrial consumers using neural network*, Conferința de inginerie energetica C.I.E. 2011 – „Energie curată și accesibilă”, Jurnal of Sustainable Energy, Oradea – 02-iunie-2011
- 3.B14. Goude Y., Felea I., Dan F. – *Electric energy forecast for the industrial consumers*, Conferința de inginerie energetica C.I.E. 2011 – „Energie curată și accesibilă”, Jurnal of Sustainable Energy, Oradea – 02-iunie-2011
- 3.B15. Felea I., Csuzi IS., Dan F., Chirea V. *Analysis on the energy performances of OTL Trams*, Jurnal of Sustainable Energy Vol. 5, no. 3, september, 2014, https://energy-cie.ro/archives/2014/nr_3/v5-n3-4.pdf
- 3.B16. Gligor E., Ionescu G.C., Blaga A.C., Dan F.- *Optimizing phosphorus removal by chemical addition at Oradea wastewater treatment plant*. Journal of Applied Engineering Sciences ISSUE 1 -2011;
- 3.B17. Blaga, A. C.; Gligor, E.; Dan, F. - *Issues regarding the classification of thermal energy consumers*. Journal of Applied Engineering Sciences. 2014, Vol. 17 Issue 1, p13-18. 6p.
- 3.B18. Ionescu G. C., Gligor E., Dan F., *Cotributions to the electric energy consumption optimization within the Wastewater treatment Plant Oradea*; Journal of Applied Engineering Sciences ISSUE 3 - 2011
- 3.B19. Ionescu G. C., Gligor E., Dan F., Ionescu G.-L. *Electric energy consumption forecast within the Wastewater Treatment Plant Oradea* - JOURNAL OF APPLIED ENGINEERING SCIENCES, ISSUE 4 - 2011
- 3.B20. F. C. Dan, C. Hora and G. Bendea, *Short-Term Forecasting of Wind Power Generation*, 2021 10th International Conference on ENERGY and ENVIRONMENT (CIEM), Bucharest, Romania, IEEE Xplore 2021, doi: 10.1109/CIEM52821.2021.9614935. INSPEC Accession Number: 21382892

C) Articole publicate în reviste neindexate în BDI:

- 3.C1. Gligor E., **Dan F.**, Ionescu G.L. – *General aspects on reahabilitation and extension of wastewater pumping stations from Oradea*, Analele Universității din Oradea, Fascicula Construcții și instalații hidroedilitare , vol. XII, 2009, pg. 345-352 –2009



3.C2. Felea I., Meianu D., Câmpian M., Dan F. – *Cercetarea experimentală a performanțelor SCAP din structura CHEMA-urilor*, Conferința Națională și Expoziția de Energetică - CNEE 2009, Sinaia, octombrie – 2009

3.C3. Felea I., Meianu D., Popa S., Dan F. – *Analiza fiabilității operaționale a unor CHEMA*, Conferința Națională și Expoziția de Energetică - CNEE 2009, Sinaia, octombrie – 2009

3.C4. Felea I., Csuzi I., Dale E., Dan F., - *Assesment of energy efficiency for urban electric transport systems*, Al 10-lea Forum Regional al Energiei – FOREN 2010, Neptun – Olimp România, iunie - 2010

4. Granturi/proiecte câștigate prin competiție națională / internațională:

A) Membru în echipă:

4.A1. *Instalație pilot pentru identificarea unor soluții tehnice de producere a H₂ verde (din surse regenerabile)* grant de cercetare câștigat prin Competiția de granturi - Cercetarea științifică de excelență aferentă domeniilor prioritare cu valorificare prin transfer tehnologic: INO – Transfer – UO, 2021, contract nr. 315/21.12.2021

4.A2. *Optimizarea energetică a sistemelor de distribuție a apei* - grant de cercetare câștigat prin Competiția de granturi - Cercetarea științifică de excelență aferentă domeniilor prioritare cu valorificare prin transfer tehnologic: INO – Transfer – UO, ediția II, 2022, contract nr. 239/01.11.2022

5. Recunoașterea și impactul activității:

A) Citări în revistele și volumele conferințelor WOS (7 citări):

5.A1 Badea, L. M. (2014). Predicting consumer behavior with artificial neural networks. *Procedia Economics and Finance*, 15, 238-246. <https://cyberleninka.org/article/n/1227454.pdf> (citeaza "Consumers load profile classification corelated to the electric energy forecast I Felea, F Dan, S Dzitac - Proceedings of the Romanian Academy, Series A, 2012")

5.A2. Benghanem, M.; Mellit, A.; Almohamadi, H.; Haddad, S.; Chettibi, N.; Alanazi, A.M.; Dasalla, D.; Alzahrani, A. Hydrogen Production Methods Based on Solar and Wind Energy: A Review. *Energies* 2023, 16, 757. <https://doi.org/10.3390/en16020757> (citeaza Main Trends and Research Directions in Hydrogen Generation Using Low Temperature Electrolysis: A Systematic Literature Review, Hora, C.; Dan, F.C.; Rancov, N.; Badea, G.E.; Secui, C.)

5.A3. Tian, Man-Wen, et al. "A New Short Term Electrical Load Forecasting by Type-2 Fuzzy Neural Networks." *Energies* 15.9 (2022): 3034. <https://doi.org/10.3390/en15093034> (citeaza Residential Short-Term Load Forecasting during Atypical Consumption Behavior, Hora, C.; Dan, F.C.; Bendea, G.; Secui, C.)



- 5.A4. Mutombo, Ntumba Marc-Alain, and Bubele Papy Numbi. "Development of a Linear Regression Model Based on the Most Influential Predictors for a Research Office Cooling Load." *Energies* 15.14 (2022): 5097. <https://doi.org/10.3390/en15145097> (citeaza Residential Short-Term Load Forecasting during Atypical Consumption Behavior, Hora, C.; Dan, F.C.; Bendea, G.; Secui, C.)
- 5.A5. Moure-Garrido, Marta, Celeste Campo, and Carlos Garcia-Rubio. "Entropy-Based Anomaly Detection in Household Electricity Consumption." *Energies* 15.5 (2022): 1837. <https://doi.org/10.3390/en15051837> (citeaza Residential Short-Term Load Forecasting during Atypical Consumption Behavior, Hora, C.; Dan, F.C.; Bendea, G.; Secui, C.)
- 5.A6. Tien, T.-M.; Chen, E.L. S-Scheme System of MoS₂/Co₃O₄ Nanocomposites for Enhanced Photocatalytic Hydrogen Evolution and Methyl Violet Dye Removal under Visible Light Irradiation. *Coatings* 2023, 13, 80. <https://doi.org/10.3390/coatings13010080> (citeaza Sustainable Hydrogen Production from Seawater Electrolysis: Through Fundamental Electrochemical Principles to the Most Recent Development)
- 5.A7. Felea, Ioan, Marius Lolea, and Simona Dzitac. "A Fuzzy Approach for the Treatment of the Human Diseases Resulting from Exposure to Electromagnetic Fields." *Studies in Informatics and Control* 28.3 (2019): 299-308. <https://doi.org/10.24846/v28i3y201906> (citeaza Risk assessment of the damage on the human body exposed to electromagnetic field of educational institutions, Felea, I., Secui, C., Mușet, A. & Dan, F)

B) Citări în revistele și volumele conferințelor BDI (14 citări):

- 5.B1. ALBUȚ-DANA, D., RANCOV, N., FELEA, A., CHIREA, V., & VESE, C. Electrical behavior analysis of an industrial consumer. <https://oaji.net/articles/2017/3336-1513282845.pdf> (citeaza The Power Electric Audit Of Oradea Urban Transport Operator, .I. Felea, I. Csuzi, F. Dan)
- 5.B2. ALBUȚ-DANA, D., RANCOV, N., FELEA, A., CHIREA, V., & VESE, C. Electrical behavior analysis of an industrial consumer. <https://oaji.net/articles/2017/3336-1513282845.pdf> (citeaza Methodological Issues And Results Obtained From An Energy Auditing Of A Foundry, Journal of Sustainable Energy, .I. Felea, F. Dan)
- 5.B3. Dușmănescu, Dorel. "Energy Demand Forecasting Methodology for Romania." *Petroleum-Gas University of Ploiesti Bulletin, Technical Series* 67.3 (2015). http://upg-bulletin-se.ro/old_site/archive/2015-3/5.Dusmanescu.pdf (citeaza Consumers load profile classification correlated to the electric energy forecast. Felea I, Dan F, Dzitac S.)
- 5.B4. Tosun, Salih, et al. "Yapay Sinir Ağları ile Kısa Dönem Profil Tahmini." 4th International Symposium on Innovative Technologies in Engineering and Science (ISITES2016) 3-5 Nov 2016 Alanya/Antalya-Turkey. 2016. https://www.researchgate.net/profile/Yener-Bektas/publication/356193230_SANAR2020_Abstract_Book/links/61914199d7d1af224becc841/SANAR2020-Abstract-Book.pdf / <https://docplayer.biz.tr/38683665-Isites2016-innovative-technologies-in-engineering-and-science-nov-alanya-antalya-turkey-honorary-chair.html> (citeaza Consumers load profile classification correlated to the electric energy forecast. Felea I, Dan F, Dzitac S.)



- 5.B5. Sa'idu, Adamu. "The Significance of Artificial Neural Network Based Model of an Electrical Energy Auditing in Bayero University Building." *BIJOTE-Bichi Journal of Technology Education* 4.1 (2016): 14-26. <https://bijote.com/BIJOTE/article/view/142/122> (citeaza Electric energy forecast for the industrial consumers using neural network. I Felea, Y Goude, F Dan)
- 5.B6. Nicoleta Arghira, Stéphane Ploix, Ioana Făgărășan & Sergiu Stelian Iliescu „Forecasting Energy Consumption in Dwellings” *Advances in Intelligent Systems and Computing* book series (AISC, volume 187) 2013 DOI: 10.1007/978-3-642-32548-9_18, https://link.springer.com/chapter/10.1007/978-3-642-32548-9_18 (citeaza Electric energy forecast for residential users. Jigoria-Oprea, D., Kilyeni, S., Dan, F.)
- 5.B7. Mușet, Aurel-Dan. "Around the concept of electromagnetic fields in school habitats." 2012 20th Telecommunications Forum (TELFOR). IEEE, 2012. DOI: 10.1109/TELFOR.2012.6419434 <https://ieeexplore.ieee.org/document/6419434> (citeaza Experimental research on electromagnetic disturbance level in a thermoelectric power station I Felea, C Secui, E Goia, F Dan)
- 5.B8. Mușet, Aurel-Dan. "Around the concept of electromagnetic fields in school habitats." 2012 20th Telecommunications Forum (TELFOR). IEEE, 2012. DOI: 10.1109/TELFOR.2012.6419434 <https://ieeexplore.ieee.org/document/6419434> (citeaza Risk assessment of the damage on the human body exposed to electromagnetic field of educational institutions I Felea, DC Secui, A Mușet, F Dan)
- 5.B9. P. Kobylinska, , M. Wierzbowska, , K. Piotrowski „High-resolution net load forecasting for micro-neighbourhoods with high penetration of renewable energy sources” *Electrical Power and Energy Systems* <https://doi.org/10.1016/j.ijepes.2019.105635> (citeaza Consumers load profile classification correlated to the electric energy forecast. Felea I, Dan F, Dziac S.)
- 5.B10. Badea, Laura Maria. "Predicting consumer behavior with artificial neural networks." *Procedia Economics and Finance* 15 (2014): 238-246. doi: 10.1016/S2212-5671(14)00492-4, <https://sci-hub.st/https://www.sciencedirect.com/science/article/pii/S2212567114004924> (citeaza Consumers load profile classification correlated to the electric energy forecast. Felea I, Dan F, Dzitac S.)
- 5.B11. Fathy, Ahmed A., et al. "Static transmission expansion planning for realistic networks in Egypt." *Electric Power Systems Research* 151 (2017): 404-418. <https://doi.org/10.1016/j.epsr.2017.06.007> (citeaza Consumers load profile classification correlated to the electric energy forecast. Felea I, Dan F, Dzitac S.)
- 5.B12. Öztürk, Ali, and Fatih Taşpınar. "Short term load forecasting for Turkey energy distribution system with artificial neural networks." *Tehnički vjesnik* 26.6 (2019): 1545-1553. <https://doi.org/10.17559/TV-20180814115917> (citeaza Consumers load profile classification correlated to the electric energy forecast. Felea I, Dan F, Dzitac S.)
- 5.B13. Singh, Shailendra, Abdulsalam Yassine, and Rachid Benlamri. "Consumer segmentation: improving energy demand management through households socio-analytics." 2019 IEEE Intl Conf on Dependable, Autonomic and Secure Computing, Intl Conf on Pervasive Intelligence and Computing, Intl Conf on Cloud and Big Data Computing, Intl Conf on Cyber Science and Technology Congress (DASC/ PiCom/CBDCom/ CyberSciTech). IEEE, 2019. DOI 10.1109/DASC/PiCom/CBDCom/CyberSciTech.2019.00187 <https://sci-hub.st/https://ieeexplore.ieee.org/abstract/document/8890448/> (citeaza Consumers load profile classification correlated to the electric energy forecast. Felea I, Dan F, Dzitac S.)
- 5.B14. Yumak, K., et al. "Load curve classification for the evaluation of demand side management programs." *IOP Conference Series: Materials Science and Engineering*. Vol. 161. No. 1. IOP

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Publishing, 2016. doi:10.1088/1757-899X/161/1/012111
<https://iopscience.iop.org/article/10.1088/1757-899X/161/1/012111/pdf> (citeaza Consumers
load profile classification correlated to the electric energy forecast. Felea I, Dan F, Dzitac S.)

C) Membru în colectivele de redacție sau comitete științifice al revistelor și manifestărilor științifice:

5.C1. Membru Editorial Bord – Journal of Sustainable Energy, 2010-2011 (BDI, CNCSIS B+)

D) Organizator de manifestări științifice:

5.D1. Membru în comitetul de organizare al Conference of Energy Engineering, 2009 ÷ 2010

E) Membru în asociații profesionale naționale și internaționale:

5.E1. Membru SAMER - Societatea Auditorilor și Managerilor Energetici din România

5.E2. Membru Asociația Energia Inteligentă

5.E3. Membru SIER SOCIETATEA INGINERILOR ENERGETICIENI DIN ROMANIA

5.E4. Membru AGIR Asociația Generală a Inginerilor din România

5.E5. Membru IRE - Institutului Național Român pentru Studiul Amenajării și Folosirii Surselor de Energie

Oradea,

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18.01.2023

