

Lista de lucrări
Dr. ing. Eugen HOPULELE

a) Lista celor maximum 10 lucrări considerate de candidat a fi cele mai relevante pentru realizările profesionale proprii, care sunt incluse în format electronic în dosar și care se pot regăsi și în celelalte categorii de lucrări prevăzute de art.15 din Hotărârea nr. 457/2011, modificată;

1. D. CERNUȘCĂ, L.D. MILICI, R.D. PENTIUC, E. HOPULELE, *Research on the Realization of a Nitinol Clutch Type Thermocouple*, 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), 22-23 Oct. 2020, IEEE Xplore, DOI: 10.1109/EPE50722.2020.9305631, INSPEC Accession Number: 20477032, Electronic ISBN:978-1-7281-8126-4, USB ISBN:978-1-7281-8125-7, ISBN:978-1-7281-8127-1, Electronic ISSN: 2644-223X, Print on Demand(PoD) ISSN: 2471-6855.

<https://ieeexplore.ieee.org/document/9305631>

2. P. ATĂNĂSOAE, R-D PENTIUC, E HOPULELE; I-C AILOAE, C-F IRIMIA, *Analysis of the Price Coupling Mechanism in the Day Ahead Electricity Markets*, 2019 8th International Conference on Modern Power Systems (MPS), 21-23 May 2019, Cluj Napoca, Romania, IEEE Xplore, DOI: 10.1109/MPS.2019.8759732, Electronic ISBN: 978-1-7281-0750-9, INSPEC Accession Number: 18821851, Web of Science, Accession Number: WOS:000612401900080, ISBN:978-1-7281-0750-9.

https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=5&SID=E2S91Gf33UktAgHHu43&page=1&doc=1

3. E. HOPULELE, R. PENTIUC, M. GAVRILAȘ, B. NEAGU, *Optimizing the operation of a trigeneration system designed to meet energy requirements for a consumer*, 2019 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 29 Sept.-2 Oct. 2019, Bucharest, Romania, IEEE Xplore, DOI: 10.1109/ISGTEurope.2019.8905655, Electronic ISBN: 978-1-5386-8218-0, Web of Science, Accession Number: WOS:000550100400200, ISBN:978-1-5386-8218-0.

https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=9&SID=E2S91Gf33UktAgHHu43&page=1&doc=1

4. B-C NEAGU, M GAVRILAȘ, R-D PENTIUC, E HOPULELE, *Optimal Placement of Energy Storage Systems in Microgrids Using a PSO based Approach*, 2019 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 29 Sept.-2 Oct. 2019, Bucharest, Romania, IEEE Xplore, DOI: 10.1109/ISGTEurope.2019.8905557, Electronic ISBN: 978-1-5386-8218-0, Web of Science, Accession Number: WOS:000550100400114, ISBN:978-1-5386-8218-0.

https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=13&SID=E2S91Gf33UktAgHHu43&page=1&doc=1

5. M GAVRILAȘ, B-C NEAGU, R-D PENTIUC, E HOPULELE, *Overview on Distributed Generation Integration in Distribution Systems*, 2018 International Conference and Exposition on Electrical And Power Engineering (EPE), 18-19 Oct. 2018, Iași, România, IEEE Xplore, DOI: 10.1109/ICEPE.2018.8559657, Electronic ISBN: 978-1-5386-5062-2, INSPEC Accession Number: 18322228, Web of Science, WOS:000458752200208, ISSN: 2471-6855.

https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=22&SID=E2S91Gf33UktAgHHu43&page=1&doc=1



6. E. HOPULELE, P. ATĂNĂSOAE, M. GAVRILAȘ, *The Influence of the Tariff Charged by Electricity Suppliers on the Optimal Running of a Trigeneration Plant*, 9th International Conference and Exposition on Electrical and Power Engineering (EPE 2016), OCT 20-22, Iasi, Romania, IEEE Xplore, Electronic ISBN: 978-1-5090-6129-7, USB ISBN: 978-1-5090-6128-0, Print on Demand (PoD) ISBN: 978-1-5090-6130-3, DOI: 10.1109/ICEPE.2016.7781446; WEB OF SCIENCE, Accession Number: WOS:000390706300156, ISBN:978-1-5090-6128-0, ISSN: 2471-6855, IDS Number: BG60S.

https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=31&SID=E2S91Gf33UktAgHHu43&page=1&doc=1

7. E. HOPULELE, M. GAVRILAȘ, *Optimization of a Combined Cool, Heat and Power Plant Based on Genetic Algorithms and Specialized Software*, 2014 International Conference and Exposition on Electrical and Power Engineering (EPE 2014), Web of Science, Accession Number: WOS:000353565300188, ISBN:978-1-4799-5849-8.

https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=6&SID=C4EmGh6bzMJNVR7Q5Di&page=1&doc=1

8. E. HOPULELE, *A modeling and optimization approach based on genetic algorithms for a hybrid trigeneration system with stirling engine*, Buletinul AGIR nr. 3 iunie-august 2012, ISSN – L 1224-7928, ISSN (online) 2247-3548.

https://www.buletinulagir.agir.ro/numere_publicate.php

9. E. HOPULELE, L. MANDICI, C. AFANASOV, *Method and device for the study of magnetic fields in electrical machines*, Buletinul AGIR nr. 4 octombrie-decembrie 2011, ISSN – L 1224-7928, ISSN (online) 2247-3548

https://www.buletinulagir.agir.ro/numere_publicate.php

10. E. HOPULELE, M. GAVRILAȘ, C. AFANASOV, *Optimal design of a hybrid trigeneration system with Stirling engine*, 6-th International Conference on Electrical and Power Engineering EPE 2010, Iași, October 28 - 30, Vol. I, (ISSN: 978-606-13-0077-8), pag. 267-271. <http://www.epe.tuiasi.ro/2010/>

b) Teza sau tezele de doctorat;

1. E. HOPULELE, *Contribuții la studiul și dezvoltarea sistemelor distribuite cu purtători multipli de energie*, Universitatea Tehnică "Gheorghe Asachi" din Iași, Facultatea de Inginerie Electrică, Energetică și Informatică Aplicată, Departamentul de Energetica, 09.09.2020, conducător științific domnul profesor universitar doctor inginer Mihai GAVRILAȘ.

d) Cărți și capitole în cărți;

1. AFANASOV C., ATĂNĂSOAE P., BACIU I., BARBĂ N., BOBRIC E.C., BOSÎNCEANU M., BUZDUGA C. CENUȘĂ M., GEORGESCU D., GRAUR A., HOPULELE E., IRIMIA D., JEDER M., MANDICI L., MILICI L.D., MILICI M.R., NEGRU M.B., NIȚAN I., OLARIU E.D., PENTIUC R.D., POIENAR M., POIENAR N., POPA C.D., POPA V., PRISĂCARIU I., PEODAN C., RAȚĂ G., RAȚĂ M., ROMANESCU A.N., ROMANIUC I., SAVU E., SOREA N., ȚANȚA O.M. UNGUREANU C., VLAD. V. 111 invenții în memoriam prof. univ. dr. ing. Dorel CERNOAMZU, Editura Universității Ștefan cel Mare Suceava, ISBN: 978-973-666-504-2, 2017.

http://editura.usv.ro/index.php?id_product=313&controller=product



e) Articole/studii in extenso, publicate în reviste din fluxul științific internațional principal;

1. P. ATANASOAE, R. PENTIUC, C. BOBRIC, E. HOPULELE, Considerations on indicators for assessing the level of competition in the balancing and ancillary services markets, CIGRE Regional South-East European Conference - RSEEC 2016 (3rd edition) October 10th - 12th 2016, University "Politehnica" of Bucharest, Romania, ISSN 2392 - 716X.

http://cigre.ru/research_commitets/ik_rus/d1_rus/materials/library/RSEEC_2016_06.10.2016.pdf

2. P. ATANASOAE, R. PENTIUC, C. BOBRIC, E. HOPULELE, *THE EVOLUTION OF THE SUPPORT SCHEME FOR PROMOTING RENEWABLE ENERGY SOURCES IN ROMANIA*, WREC XIV Proceedings, University POLITEHNICA of Bucharest, Romania, "Renewable Energy and Environmental Sustainability", eISSN: 2493-9439, vol.1, 2016,

<http://www.energy-sustainability.org/>

3. P. ATANASOAE, R. PENTIUC, E. HOPULELE, *The reliability evaluation of the electrical substations with various connection schemes*, Acta Electrotehnica, (COPERNICUS Master List), Number 3, 2015, ISSN 1841-3323, pag. 15-18.

<https://ie.utcluj.ro/acta-electrotehnica.html>

4. C. AFANASOV, E. HOPULELE, L. MANDICI, M. RAȚĂ, *Step-Down Voltage Converter*, Acta Electrotehnica, (COPERNICUS Master List), ISSN 1841-3323, volum 54, nr. 5, 2013.

<https://ie.utcluj.ro/acta-electrotehnica.html>

5. P. ATANASOAE, R. PENTIUC, E. HOPULELE, *Support schemes for promoting renewable energy sources*, Acta Electrotehnica, (COPERNICUS Master List), ISSN 1841-3323, volum 54, nr. 5, 2013

<https://ie.utcluj.ro/acta-electrotehnica.html>

6. E. HOPULELE, *A modeling and optimization approach based on genetic algorithms for a hybrid trigeneration system with stirling engine*, Buletinul AGIR nr. 3 iunie-august 2012, ISSN - L 1224-7928, ISSN (online) 2247-3548.

https://www.buletinulagir.agir.ro/numere_publicate.php

7. E. HOPULELE, L. MANDICI, C. AFANASOV, *Method and device for the study of magnetic fields in electrical machines*, Buletinul AGIR nr. 4 octombrie-decembrie 2011, ISSN - L 1224-7928, ISSN (online) 2247-3548

https://www.buletinulagir.agir.ro/numere_publicate.php

8. C. AFANASOV, M. RATA, E. HOPULELE, AI. SIMION, *Indirect vector control of an twophase induction motor with position controller and eight-transistor inverter*, Annals of the University of Craiova, No. 34, Vol. II, 2010, Craiova, October 7-8, (ISSN: 1842-4805), pag. 153-156.

f) Publicații in extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate;

1. D. CERNUȘCĂ, L.D. MILICI, R.D. PENTIUC, E. HOPULELE, *Research on the Realization of a Nitinol Clutch Type Thermocouple*, 2020 International Conference and Exposition on Electrical And Power Engineering (EPE), 22-23 Oct. 2020, IEEE Xplore, DOI: 10.1109/EPE50722.2020.9305631, INSPEC Accession Number: 20477032, Electronic ISBN:978-1-7281-8126-4, USB ISBN:978-1-7281-8125-7, ISBN:978-1-7281-8127-1, Electronic ISSN: 2644-223X, Print on Demand(PoD) ISSN: 2471-6855.

<https://ieeexplore.ieee.org/document/9305631>



2. D. CERNUȘCĂ, R.D. PENTIUC, E. HOPULELE, Modeling of Distributed Generation, WEC CENTRAL & EASTERN EUROPE REGIONAL ENERGY FORUM – FOREN 2020, 7 -10 September 2020, online.

<http://cnr-cme.ro/events/foren-2020-online/>

3. D. CERNUȘCĂ, R.D. PENTIUC, E. HOPULELE, L.D. MILICI, *Distributed Generation Modeling in Matlab-Simulink*, 2019 INTERNATIONAL CONFERENCE ON ELECTROMECHANICAL AND ENERGY SYSTEMS (SIELMEN), OCT 09-11, 2019, Chisinau, Republica Moldova, IEEE Xplore, DOI: 10.1109/SIELMEN.2019.8905844, INSPEC Accession Number: 19172199, Web of Science, Accession Number: WOS:000630287500053, ISBN:978-1-7281-4011-7.

https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=E2S91Gf33UktAgHHu43&page=1&doc=1

4. P. ATĂNĂSOAE, R-D PENTIUC, E HOPULELE; I-C AILOAE, C-F IRIMIA, *Analysis of the Price Coupling Mechanism in the Day Ahead Electricity Markets*, 2019 8th International Conference on Modern Power Systems (MPS), 21-23 May 2019, Cluj Napoca, Romania, IEEE Xplore, DOI: 10.1109/MPS.2019.8759732, Electronic ISBN: 978-1-7281-0750-9, INSPEC Accession Number: 18821851, Web of Science, Accession Number: WOS:000612401900080, ISBN:978-1-7281-0750-9.

https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=5&SID=E2S91Gf33UktAgHHu43&page=1&doc=1

5. E. HOPULELE, R. PENTIUC, M. GAVRILAȘ, B. NEAGU, *Optimizing the operation of a trigeneration system designed to meet energy requirements for a consumer*, 2019 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 29 Sept.-2 Oct. 2019, Bucharest, Romania, IEEE Xplore, DOI: 10.1109/ISGTEurope.2019.8905655, Electronic ISBN: 978-1-5386-8218-0, Web of Science, Accession Number: WOS:000550100400200, ISBN:978-1-5386-8218-0.

https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=9&SID=E2S91Gf33UktAgHHu43&page=1&doc=1

6. B-C NEAGU, M GAVRILAȘ, R-D PENTIUC, E HOPULELE, *Optimal Placement of Energy Storage Systems in Microgrids Using a PSO based Approach*, 2019 IEEE PES Innovative Smart Grid Technologies Europe (ISGT-Europe), 29 Sept.-2 Oct. 2019, Bucharest, Romania, IEEE Xplore, DOI: 10.1109/ISGTEurope.2019.8905557, Electronic ISBN: 978-1-5386-8218-0, Web of Science, Accession Number: WOS:000550100400114, ISBN:978-1-5386-8218-0.

https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=13&SID=E2S91Gf33UktAgHHu43&page=1&doc=1

7. P. ATĂNĂSOAE, R-D PENTIUC, M-R MILICI, E HOPULELE, I MIHAI, *Promoting the Electricity Generation from Biomass in Romania*, 2018 International Conference and Exposition on Electrical And Power Engineering (EPE), 18-19 Oct. 2018, Iași, România, IEEE Xplore, DOI: 10.1109/ICEPE.2018.8559890, Electronic ISBN: 978-1-5386-5062-2, INSPEC Accession Number: 18322254, Web of Science, WOS:000458752200070, ISSN: 2471-6855.

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8. M GAVRILAȘ, B-C NEAGU, R-D PENTIUC, E HOPULELE, *Overview on Distributed Generation Integration in Distribution Systems*, 2018 International Conference and Exposition on Electrical And Power Engineering (EPE), 18-19 Oct. 2018, Iași, România, IEEE Xplore, DOI: 10.1109/ICEPE.2018.8559657, Electronic ISBN: 978-1-5386-5062-2, INSPEC Accession Number: 18322228, Web of Science, WOS:000458752200208, ISSN: 2471-6855.



https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=22&SID=E2S91Gf33UktAgHHu43&page=1&doc=1

9. P. ATĂNĂSOAE, R. PENTIUC, E. HOPULELE, V. MARTIN, A. TOMUȚ, *Determining the amount of electricity generated in high efficiency cogeneration for the access to the support scheme through green certificates*, Modern Power Systems (MPS), 6-9 June 2017, Cluj Napoca, Romania, IEEE Xplore, Electronic ISBN: 978-1-5090-6565-3, Print on Demand(PoD) ISBN: 978-1-5090-6566-0, DOI: 10.1109/MPS.2017.7974404, Web of Science, WOS:000428462600034, ISBN:978-1-5090-6565-3.

https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=27&SID=E2S91Gf33UktAgHHu43&page=1&doc=1

10. E. HOPULELE, P. ATĂNĂSOAE, M. GAVRILAȘ, *The Influence of the Tariff Charged by Electricity Suppliers on the Optimal Running of a Trigeneration Plant*, 9th International Conference and Exposition on Electrical and Power Engineering (EPE 2016), OCT 20-22, Iasi, Romania, IEEE Xplore, Electronic ISBN: 978-1-5090-6129-7, USB ISBN: 978-1-5090-6128-0, Print on Demand(PoD) ISBN: 978-1-5090-6130-3, DOI: 10.1109/ICEPE.2016.7781446; WEB OF SCIENCE, Accession Number: WOS:000390706300156, ISBN:978-1-5090-6128-0, ISSN: 2471-6855, IDS Number: BG6OS.

https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=31&SID=E2S91Gf33UktAgHHu43&page=1&doc=1

11. P. ATĂNĂSOAE, R. PENTIUC, E. HOPULELE, *Energy Recovery of Municipal Solid Waste for Combined Heat and Power Production*, 9th International Conference and Exposition on Electrical and Power Engineering (EPE 2016), OCT 20-22, Iasi, Romania, IEEE Xplore, Electronic ISBN: 978-1-5090-6129-7, USB ISBN: 978-1-5090-6128-0, Print on Demand(PoD) ISBN: 978-1-5090-6130-3, DOI: 10.1109/ICEPE.2016.7781455; WEB OF SCIENCE, Accession Number: WOS:000390706300165, ISBN:978-1-5090-6128-0, ISSN: 2471-6855, IDS Number: BG6OS.

https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=35&SID=E2S91Gf33UktAgHHu43&page=1&doc=1

12. P. ATĂNĂSOAE, R. PENTIUC, E. HOPULELE, *The optimal distribution of reactive power on synchronous generators in power plants*, 8th International Conference Interdisciplinarity in Engineering, INTER-ENG 2014, 9-10 October 2014, Tirgu Mures, Romania, ELSEVIER, ScienceDirect, Procedia Technology 00 (2014) 000–000, Volume 19, 2015, Pages 637–642, Web of Science, Accession Number: WOS:000358732500089, ISSN: 2212-0173.

https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=C4EmGh6bzMJNVR7Q5Di&page=1&doc=1

13. E. HOPULELE, M. GAVRILAȘ, *Optimization of a Combined Cool, Heat and Power Plant Based on Genetic Algorithms and Specialized Software*, 2014 International Conference and Exposition on Electrical and Power Engineering (EPE), Web of Science, Accession Number: WOS:000353565300188, ISBN:978-1-4799-5849-8.

https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=6&SID=C4EmGh6bzMJNVR7Q5Di&page=1&doc=1

14. P. ATĂNĂSOAE, E. HOPULELE, *The Impact of the Support Scheme on the Installed Capacity in Renewable Energy Sources in Romania*, 2014 International Conference and Exposition on Electrical and Power Engineering (EPE), Web of Science, Accession Number: WOS:000353565300209, ISBN:978-1-4799-5849-8.

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15. E HOPULELE, M. GAVRILAȘ, P ATĂNĂSOAE, *Optimal Design of a Hybrid Distributed Generation System*, 49TH International Universities Power Engineering Conference (UPEC 2014), Web of Science, Accession Number: WOS:000364087800187, ISBN:978-1-4799-6557-1.

https://apps.webofknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=16&SID=C4EmGh6bzMJNVR7Q5Di&page=1&doc=2

15. E HOPULELE, *Hybrid solutions "Virtual Power Plants - systems with multiple energy carriers"*, The 12th WEC Central & Eastern Europe Energy Forum - FOREN 2014, vol: DS-3-41, 22-26 Iunie, 2014, Bucuresti, Romania, ISSN: 2284-9491.

<http://arpee.org.ro/forumul-regional-de-energie-foren-2014/>

16. E. HOPULELE, M. GAVRILAȘ, C. AFANASOV, *Optimal design of a hybrid trigeneration system with Stirling engine*, 6-th International Conference on Electrical and Power Engineering EPE 2010, Iași, October 28 - 30, Vol. I, (ISSN: 978-606-13-0077-8), pag. 267-271.

<http://www.epe.tuiasi.ro/2010/>

17. C. AFANASOV, M. RATA, AI. SIMION, E. HOPULELE, S. MIHAI, *Indirect vector control of an two-phase induction motor with speed controller and three phase inverter*, 6-th International Conference on Electrical and Power Engineering EPE 2010, Iași, October 28 - 30, Vol. II, (ISSN: 978-606-13-0078-5), pag. 165-168.

<http://www.epe.tuiasi.ro/2010/>

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

1. E. HOPULELE, *Utilizarea motoarelor stirling în aplicații de cogenerare*, Primul simpozion științific studentesc național, ELSTUDIS, Vol: 1, 6-7 Octombrie, 2009, Iași, Romania, ISSB/ISBN: 987-606-520-616-8, pag: 200-209.

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Semnătura

