

## Prof. Florin Munteanu – List of main publications

### Books and manuals (in Romanian)

1. C. Nemes, Fl. Munteanu *Generation and Distribution of Electrical Energy*. Ed. Politehniun, Iasi, ISBN 978-973-621-319-9
2. Fl. Munteanu, C. Nemes *Short-circuit Phenomenon – From Theory to Practice*. Ed. Politehniun. ISBN 978-973-621-302-1
3. C. Nemes, Fl. Munteanu, D. Ivas *Modern Techniques for Availability Analysis of Elements and Systems*. Ed. Politehniun Iasi. ISBN 978-973-621-240-6.
4. Fl. Munteanu, M. Adam., D. Ivas., C. Nemes *Intelligent Apparatus and Switching in Power Systems*. Ed. Venus, Iasi. ISBN 973-756-025-6
5. D. Ivas, E. Voinea, Fl. Munteanu, M. Rotariu *Risk Management. Industrial and Ecological Risk*. Ed. Agir, București. ISBN 973-8130-45.
6. D. Ivas, Fl. Munteanu, M. Rotariu, E. Voinea, C. Nemeș *Reliability Engineering of Complex Systems*. Ed. Perfect, București. ISBN 973-85069-3-X.
7. D. Ivas, Fl. Munteanu, M. Sporiș, C-tin Pârăianu, C-tin Dârzan, Elena Istrate, Camelia Ghițescu *Reliability, Maintenance, Availability and Performance in Hydro Power Engineering*. Ed. Prisma, ISBN 973-99186-5-4, Rm. Vâlcea.
8. Fl. Munteanu, D. Ivas, C. Nemeș *Availability Engineering of Electricity Distribution Subsystems*. Ed. Spectrum, ISBN 973-98335-3-5, Iași.

### Published papers in Thomson-Reuters Clarivate Analytics indexed journals and conferences

1. Fl. Munteanu, Nemes, C., "Availability evaluation of wind as a repairable system, " *Optimization of Electrical and Electronic Equipment (OPTIM), 2014 International Conference on*, vol., no., pp.756,761, 22-24 May 2014 WOS:000343551300111\*. DOI:10.1109/OPTIM.2014.6850917
2. C. Nemes, Fl. Munteanu, A parametrical analysis of wind turbine energy performance . *IEEE Workshop on Integration of Stochastic Energy in Power Systems (ISEPS) Bucharest, ROMANIA* Date: NOV 07, 2013, pages: 8-13 Published: 2013. WOS:000349473300002\*
3. Fl. Munteanu, C. Nemeș, Mariana Munteanu, New Trends on Power Quality - Light Sensitivity Relationship and its Influence on Human Health. *Proceedings of the 2012 International Conference and Exposition on Electrical and Power Engineering*, October 25-27, 2012, Iași, Romania (EPE 2012), ISBN: 978-1-4673-1171-7, IEEEExplore: 978-1-4673-1172-4, pp. 928-933, 6 pg., 2012. DOI:10.1109/ICEPE.2012.6463813. WOS:000324685300170\*
4. C. Nemeș, Fl. Munteanu, An Analysis of a Photovoltaic Panel Model Comparison Between Measurements and Analytical Models. *Proceedings of the 2012 International Conference and Exposition on Electrical and Power Engineering*, October 25-27, 2012, Iași, Romania (EPE 2012), ISBN: 978-1-4673-1171-7, IEEEExplore: 978-1-4673-1172-4, pp. 939-944, 6 pg., 2012. DOI:10.1109/ICEPE.2012.6463811. WOS:000324685300172\*
5. C. Nemeș, Fl. Munteanu, *Potential Solar Irradiance Assessment based on a digital Elevation Model*. *Advances in Electrical and Computer Engineering*, vol. 11, no. 4, ISSN: 1582-7445, e-ISSN: 1844-7600, Impact Factor 0.642, pp. 89-92, 4 pg., 2011. DOI:<http://dx.doi.org/10.4316/AECE.2011.04014>.
6. C. Nemeș, Fl. Munteanu, A Probabilistic Model for Power Generation Adequacy Evaluation, *Rev. Roum. Sci. Techn.– Électrotechn. et Énerg.*, 56, 1/2009, Bucharest, ISSN: 0035-4066, Impact Factor: 0.368, pp. 36–46, 11 pg., 2009.

7. C. Nemeş, Fl. Munteanu, Optimal Selection of Wind Turbine for a Specific Area. *Proceedings of the 12<sup>th</sup> International Conference on Optimization of Electrical and Electronic Equipment*, May 20-22, 2010, Braşov, Romania, (OPTIM 2010), ISSN: 1842-0133, IEEEExplore: 978-1-4244-7020-4, pp. 1224-1229, 6 pg., 2010. DOI:10.1109/OPTIM.2010.5510577. WOS:000291967300183\*.
8. C. Nemeş, Fl. Munteanu, Development of Reliability Model for Wind Farm Power Generation, *Advances in Electrical and Computer Engineering*, vol. 10, no. 2, ISSN 1582-7445, e-ISSN 1844-7600, Impact Factor: 0.642, pp. 24-29, 6 pg., 2010.  
DOI:http://dx.doi.org/10.4316/AECE.2010.02004
9. D. Ivas, Fl. Munteanu, C. Nemeş Indices To Evaluate The Network Nodes Structure. *Revue Roumaine des Sciences Techniques*, Académie Roumaine, tome 45, Octobre-Décembre 2000, nr. 4, pag. 649-655. ISSN: 1582-7445, e-ISSN: 1844-7600, Impact factor: 0.368. Bucureşti, România.
10. Astanei, Dragos, Munteanu, Florin, Nemes, Ciprian. Electrical Diagnostic of High Voltage Discharges Produced by a New Spark-Plug . 13<sup>th</sup> *International Conference on Engineering of Modern Electric Systems (EMES)* Location: Oradea, ROMANIA Date: JUN 11-12, 2015 .  
WOS:000363815100001.
11. A. Ciobanu, F. Munteanu and C. Nemes, "Bayesian networks utilization for reliability evaluation of power systems," *2016 International Conference and Exposition on Electrical and Power Engineering (EPE)*, Iasi, 2016, pp. 837-841.  
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12. D. Astanei, C. Nemes, F. Munteanu and A. Ciobanu, "Annual energy production estimation based on wind speed distribution," *2016 International Conference and Exposition on Electrical and Power Engineering (EPE)*, Iasi, 2016, pp. 862-867. doi: 10.1109/ICEPE.2016.7781459.  
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C. Nemes, F. Munteanu, M. Rotariu and D. Astanei, "Availability assessment for grid-connected photovoltaic systems with energy storage," *2016 International Conference and Exposition on Electrical and Power Engineering (EPE)*, Iasi, 2016, pp. 908-911.  
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13. F. Munteanu, A. Ciobanu and C. Nemes, "From technical design structures to Bayesian networks in power engineering," *2016 International Conference on Applied and Theoretical Electricity (ICATE)*, Craiova, 2016, pp. 1-6.  
doi: 10.1109/ICATE.2016.7754625. WOS:000390767500025.
14. A. Ciobanu, F. Munteanu, C. Nemes and D. Astanei, "Availability model of wind and solution to immunize the generators against short time perturbations," *2016 International Symposium on Fundamentals of Electrical Engineering (ISFEE)*, Bucharest, 2016, pp. 1-6.  
doi: 10.1109/ISFEE.2016.7803166. WOS:000392434400018.
15. F. Munteanu, C. Nemes and D. Astanei, "Power quality indices proposal for networks operating in sinusoidal and unbalanced conditions," *2014 International Symposium on Fundamentals of Electrical Engineering (ISFEE)*, Bucharest, 2014, pp. 1-6. doi: 10.1109/ISFEE.2014.7050553.  
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16. F. Munteanu, C. Nemes, M. Atudori and L. Galca, "Reliability model to estimate power quality and reliability of supply," *2013 12th International Conference on Environment and Electrical Engineering*, Wroclaw, 2013, pp. 94-99. doi: 10.1109/EEEIC.2013.6549597.  
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17. F. Munteanu and C. Nemes, "The maintenance strategies influence on the reliability of power plant generating units," *2012 13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)*, Brasov, 2012, pp. 103-108.  
doi: 10.1109/OPTIM.2012.6231761. WOS:000398866700015.

18. C. Nemes and F. Munteanu, "Reliability consideration on wind farms energy production," *2012 13th International Conference on Optimization of Electrical and Electronic Equipment (OPTIM)*, Brasov, 2012, pp. 183-187. doi: 10.1109/OPTIM.2012.6231759.

**Published papers in international data bases indexed  
journals and conferences (selection)**

1. C. Nemeş, F. Munteanu, *Operational parameters evaluation for optimal wind energy systems development*, Published in U.P.B. Sci. Bulletin, Series C, vol. 74, iss. 1, ISSN 1454-234x, pp. 223-230, 8 pg., 2012.
2. F. Munteanu, C. Nemeş, *Belief networks utilization for nodal power quality and availability assessment*, Published in U.P.B. Sci. Bulletin, Series C, vol. 74, iss. 1, ISSN 1454-234x, pp. 215-222, 8 pg., 2012.
3. C. Nemeş, F. Munteanu, *The Wind Energy System Performance Overview: Capacity Factor vs. Technical Efficiency*, International Journal of Mathematical Models and Methods in Applied Sciences, North Atlantic University Union, iss. 1, vol. 5, ISSN: 1998-0140, pp. 159-166, 8 pg., 2011.
4. F. Munteanu, C. Nemeş, *Fast Method for accurate fault type detection in high voltage networks*. Bulletin of the Polytechnic Institute of Iaşi, tom LVI(LX), fasc.2, ISSN 1223-8139, pp. 89-96, 8 pg., 2010.
5. C. Nemeş, F. Munteanu, Mbuyamba Tshibanda, *Reliability evaluations of Power Systems including Wind Power Generation*. Bulletin of the Polytechnic Institute of Iaşi, tom LVI(LX), fasc.2, ISSN 1223-8139, pp. 97-106, 10 pg., 2010.
6. F. Munteanu, C. Nemeş, *Real efficiency of intelligent switching of high voltage circuit-breakers*, Published in U.P.B. Sci. Bulletin, Series C, vol. 72, iss.1, ISSN1454-234x, pp. 173-182, 10 pg., 2010.
7. C. Nemeş, F. Munteanu, *Probabilistic method for circuit breaker maintenance planning*, Electrotehnica, Electronica, Automatica, no. 4, vol. 58, ISSN 1582-5175, pp. 69-73, 5 pg., 2010.
8. C. Nemeş, F. Munteanu, *A Wind Power Generation Model for Reliability Evaluation*, Revista Electrotehnica, Electronica, Automatica, no. 1, vol. 58, ISSN 1582-5175, pp. 31-36, 6 pg., 2010.
9. F. Munteanu, C. Nemeş, *Reliability optimization of the power system nodes considering the switching components*, Published in Annals of the University of Craiova, Electrical and Engineering Series, no. 34, ISSN:1842-4805, pp. 196-199, 4 pg., 2010.
10. C. Nemes, F. Munteanu, *A probabilistic approach of the wind energy system performance*, The 12<sup>th</sup> WSEAS International Conference on Mathematical Methods and Computational Techniques in Electrical Engineering Conference (MMACTEE '10), WSEAS Conferences in Polytechnic University of Timisoara, Romania, October 21-23, ISSN: 1792-5967, ISBN: 978-960-474-238-7, pp. 116-121, 6 pg., 2010.
11. C. Nemeş, F. Munteanu, Dumitru Ivas, *Effect of the generation power station reliability on generation system*, Published in Scientific Bulletin of the Electrical Engineering Faculty, Valahia University of Targoviste, year 10, no.2(13), ISSN 1843-6188, pp. 43-47, 5 pg., 2010.
12. F. Munteanu, C. Nemeş, *The high voltage circuit-breaker of intelligent switching. A theoretical background*. Revista Electrotehnica, Electronica, Automatica, no.1, vol 57, ISSN 1582-5175, pp. 26-30, 5 pg., 2009.
13. C. Nemeş, F. Munteanu, *Probabilistic approach of the generated power of a wind turbine*. Bulletin of the Polytechnic Institute of Iaşi, tom LV (LIX), fasc. 3, ISSN 1223-8139, pp. 123-130. 8 pg., 2009.

14. F. Munteanu, C. Nemeş, *Methods for maintenance optimization of power system components*, Published in Annals of the University of Craiova, Electrical and Engineering Series, no. 32, ISSN 1842-4805, pp. 142-146, 4 pg., 2008.
15. F. Munteanu, C. Nemeş, *Human reliability influence on systems maintenance*, Published in Bulletin of the Polytechnic Institute of Iaşi, tom LIV (LVIII), fasc. 3, pp. 455-460, 6 pg., 2008.
16. C. Nemeş, F. Munteanu, *Equipment reliability analysis using the probabilistic design methodology*, Published in Bulletin of the Polytechnic Institute of Iaşi, tom LIV (LVIII), fasc. 3, pp. 185-192, 8 pg., 2008.
17. C. Nemeş, F. Munteanu, Dumitru Ivas, *Aging equipment prediction using the wear process*, Published in Annals of the University of Craiova, Electrical and Engineering Series, no. 31, 2007, vol.I, ISSN 1842-4805, pp. 409-412, 4 pg., 2007.
18. C. Nemeş, D. Ivas, F. Munteanu, *Estimating the failure density function using the Stress Strength Interference Model*, Bulletin of the Polytechnic Institute of Iaşi, tomul LII (LVI), fasc. 1-2, pp. 145-150, 6 pg. 2006.
19. C. Nemeş, F. Munteanu, D. Ivas, *The circuit breakers reliability management using the number of operations*, Bulletin of the Polytechnic Institute of Iaşi, tomul LI(LV), fasc. 3-4/2005, pp. 131-136, 6 pg., 2005.
20. C. Nemeş, D. Ivas, F. Munteanu, *Probabilistic approach for thermal and electro-dynamic stresses distributions*, Bulletin of the Polytechnic Institute of Iaşi, tomul LI (LV), fasc. 1-2/2005, pp. 137-145, 9 pg., 2005.
21. D. Ivas, F. Munteanu, C. Nemeş, *Methods for power system security management*, Published in Bulletin of the Polytechnic Institute of Iaşi, tom L(LIV), fasc. 5A, ISSN-1223-8139, pp. 380 - 385, 6 pg. 2004.
22. C. Nemeş, D. Ivas, F. Munteanu, *The life time distribution calculation based on wearing process*, Published in Bulletin of the Polytechnic Institute of Iaşi, tom L(LIV), fasc. 5A, ISSN-1223-8139 pp. 411-416, 6 pg., 2004.
23. D. Ivas, F. Munteanu, C. Nemeş, *The dynamic relations inside the state vector components - a criterion for technical systems reliability and risk evaluation*, The International World Energy System Conference WESC 2004, Oradea, ISSN 1198-0729, pg. 12-15, 4 pg., 2004.
24. D. Ivas, F. Munteanu, C. Nemeş, I. Mălăescu, *Systemicaly connections in theorethical and practical reliability*, Bulletin of the Polytechnic Institute of Iaşi, tom XLVIII(LII), fasc. 5A, 2002, ISSN 0258-9109, pp. 137-142.
25. D. Ivas, M. Rotariu, F. Munteanu, C. Nemeş, *An optimization criterion for the distribution networks selectivity*, Bulletin of the Polytechnic Institute of Iaşi, tom XLV (IL), fasc. 5C, ISSN 0258-9109, pp. 94-98, 5 pg., 1999.