

## CURRICULUM VITAE

**Academic title and name** : Prof.Dr. Mustafa BAGRIYANIK  
Date of Birth : 1964

### Degrees with fields, institution and dates:

<u>Degree</u>	<u>Field</u>	<u>Instituion</u>	<u>Date</u>
BS	Electrical Engineering	ITU	1985
MS	Electrical Engineering	ITU	1989
PhD	Electrical Engineering	ITU	1997

### Courses Taught :

Power Transmission Systems, Electrical Energy Distribution Systems, Fundamentals of Electrical Engineering, Flexible Control of Distribution Systems, Transients in Power Systems, Int.to Comp and Inf. System, Intr. to Sci. & Eng. Comp (C), Client and Server Side Programming, Data Structure and Algorithms in C.

### Research & Consultancy:

- Extensive research on the application of intelligent methods to incipient fault diagnosis in electrical power distribution systems, Texas A&M University, Power System Automation Laboratory, 2001-2002.
- Technical Consultancy for Turkish National Power Transmission Utility- Region 1, 4 and 5, 2005-2008
- Consultancy for Development of a New Generation Electricity Meter and Remote Metering System, VIKO Electric Inc, 2011-2012
- Consultancy for Development of Energy Management System for electrical distribution systems, NEVOTEK Inc, and MEG Inc., 2013-2014
- Researcher in the project "Smart Electrical Energy Management and Buildings Energy Efficiency Technologies", ITU and TEIWM, 2014-2016
- Technical Consultancy for AF-MERCADOS TURKEY Consulting Company - Master Plan studies and research projects of Electricity Distribution Utilities in Turkey, 2014-2017
- Researcher in the project "Grid Responsive Society Through Building Automation Systems", ITU, MAKEL and INESC, 2017-

### Professional societies of which he is a member:

- IEEE Power Engineering Society (Senior Member)
- National Chamber of Turkish Electrical Engineering (Member)

### Recent publications:

- Ucar B., Bagriyanik M., and Komurgoz G., "Influence of PV Penetration on Distribution Transformer Aging," Journal of Clean Energy Technologies vol. 5, no. 2, pp. 131-134, 2017.

- Zehir M. A., Batman A., Sonmez M.A., Font A., Tsiमितros D., Stimoniaris D., Kollatou T., Bagriyanik M., Ozdemir A., Dialynas E., Impacts of microgrids with renewables on secondary distribution networks, In Applied Energy, Volume 201, 2017, Pages 308-319.
- Zehir M.A., Wevers M.H., Batman A., Bagriyanik M., Hurink J.L., Kucuk U., Soares F.J., Ozdemir A., "A Novel Incentive-based Retail Demand Response Program for Collaborative Participation of Small Customers" 2017 IEEE POWERTECH, JUN 18-22, 2017, Manchester, ENGLAND
- Yorukoglu S., Nasibov F., Mungan M. and Bagriyanik M., "The Effect of the Types of Network Topologies on Nontechnical Losses in Secondary Electricity Distribution Systems," in IEEE Transactions on Industry Applications, vol. 52, no. 5, pp. 3631-3643, Sept.-Oct. 2016
- Ozbuber S., Bagriyanik M., "A Vendor Independent Distribution Management System Development Project Considering EMRA Regulations in Turkey", Innovative Smart Grid Technologies Conference North America (ISGT-North America), 2015 IEEE PES, vol., no., pp.1,5, 18-20 Feb. 2015.
- Tsiमितros, D.; Stimoniaris, D.; Poulakis, N.; Zehir, M.A.; Batman, A.; Bagriyanik, M.; Ozdemir, A.; Dialynas, E., "Advanced energy storage and demand-side management in smart grids using buildings energy efficiency technologies," Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), 2014 IEEE PES , vol., no., pp.1,6, 12-15 Oct. 2014
- Zehir, M.A.; Bagriyanik, M., "Demand response planning tool for management method evaluation and tariff design," Innovative Smart Grid Technologies Europe (ISGT EUROPE), 2013 4th IEEE/PES , vol., no., pp.1,5, 6-9 Oct. 2013
- Cakal G., Bagriyanik F.G., Bagriyanik M., "The Effect of Fault Current Limiters on Distribution Systems with Wind Turbine Generators", International Journal of Renewable Energy Research-IJRER, Vol.3, No.1, 2013.
- Sonmez, M.A.; Zehir, M.A.; Bagriyanik, M.; Nak, O., "Impulsive noise survey on Power Line Communication networks up to 125 kHz for smart metering infrastructure in systems with solar inverters in Turkey," Renewable Energy Research and Applications (ICRERA), 2013 International Conference on , vol., no., pp.705,710, 20-23 Oct. 2013
- Sonmez, M.A.; Bagriyanik, M., "Statistical model study for Narrowband Power Line Communication Noises," Electrical and Electronics Engineering (ELECO), 2013 8th International Conference on, vol., no., pp.539,543, 28-30 Nov. 2013.
- Batman A., Bagriyanik F. G., Aygen Z. E., Gul O., Bagriyanik M., "A Feasibility Study of Grid-Connected Photovoltaic Systems in Istanbul, Turkey" , Renewable & Sustainable Energy Reviews, Elsevier, Volume 16, Issue 8, October 2012, Pages 5678-5686,
- Zehir M. A., Bagriyanik M., "Demand Side Management by controlling refrigerators and its effects on consumers", Energy Conversion and Management, Elsevier, Volume 64, December 2012, Pages 238-244.
- Ozdemir A, Bagriyanik M, Erden I, Akkaya Y, "Single and Multiple Outage Statistics in Turkish National Power Transmission System", Proceedings of

The 12th International Conference on Probabilistic Methods Applied to Power Systems (PMAPS 2012), Istanbul, Turkey, June 10-14, 2012

- Zehir M. A., Bagriyanik M., "Evaluation of Management Strategies for Thermostatic Loads in Smart Grid", Proceedings of the 3rd IEEE PES Innovative Smart Grid Technologies Europe (ISGT 2012 Europe), Berlin.
- Dag G. Ozdemir, Bagriyanik, M. "A Parallel Implementation of Unscheduled Flow Control in Interconnected Power Systems," Mathematical Problems in Engineering, vol. 2012, Article ID 376291, 19 pages, 2012.
- Bagriyanik F. G., Aygen Z. E., Bagriyanik M., "Minimization of Power Transmission Losses in Series Compensated Systems Using Genetic Algorithm", International Review Of Electrical Engineering-IREE, Volume:6, Issue:2, Pages:810-817, Part B, MAR-APR 2011
- Ozdemir, A., Bagriyanik, M., Ilisu, I., Gul, O., Kaypmaz, A., Akkaya, Y., "Impacts of protection system misoperation on the reliability of Turkish National Power Transmission System", International Conference on Advanced Power System Automation and Protection (APAP) 2011, vol.1, no., pp.619-623, 16-20 Oct. 2011