

## Curriculum Vitae

- Personal & contact information:** Full name: Cavit Fatih Küçüktezcan  
Date and place of birth: 1983, Germany  
E-mail: cavitfatih.kucuktezcan@eng.bau.edu.tr  
Address: Bahçeşehir University, Çırağan Avenue 4-6, 34349, Beşiktaş, Istanbul, Turkey
- Education:** Doctorate: ITU, Institute of Science & Technology, Electrical Engineering, 2015.  
*Dynamic security enhancement of power systems via population based optimization methods integrated with artificial neural networks*
- Master: ITU, Institute of Science & Technology, Electrical Engineering, 2008.  
*Effects of GA optimized fuzzy power system stabilizers on angle stability of power systems*
- Bachelor: ITU, Faculty of Electrical and Electronics, Electrical Engineering, 2005.
- High School: Şişli Terakki High School, June, 2001.
- Experience:** Jan. 2017 - ... : Bahçeşehir University, Department of Electrical & Electronics Engineering, *Assistant Professor*
- Dec. 2014 - Dec. 2016 : TUBITAK 1001 Research Project, *Research Scholar*
- Dec. 2005 - Feb. 2015 : ITU, Department of Electrical Engineering, *Teaching Assistant*
- Feb. 2013 - Aug. 2013 : University of Duisburg-Essen, Department of Electrical Engineering & Information Technologies, *Visiting Scholar*
- Aug. 2008 - Aug. 2009 : TSK Rehabilitation Center, *Electrical Engineer*
- Aug. 2004 - Oct. 2004 : Philips Lighting, *Intern*
- July 2003 - Aug. 2003 : Sismik Building Audit, *Intern*
- Research areas:** Forecasting of load and power generation of renewable energy sources  
Optimization and data mining applications in power system engineering  
Power system dynamics, stability and control
- Research projects:** TUBITAK 1001 (Project #: 114E157), *Dynamic Security Assessment and Enhancement of Power Systems via Population Based Optimization Methods and Machine Learning Tools*
- Supervised thesis:** Alireza Yazdi, *Short-Term and Medium-Term Wind Speed Forecasting via Adaptive Neuro-Fuzzy Inference Systems* (MSc, 2019)  
Usman Khan, *Short-Term Load Forecasting by Using Artificial Neural Networks* (MSc, 2018)  
Mustafa Madni, *Wind Speed Forecasting by Using Mycielski Algorithm* (MSc, continuing)  
Murat Ozan Çelebi, *Application of Computational Intelligence Methods on Static Security Assessment of Power Systems* (MSc, continuing)
- Given lectures:** Fundamentals of Electrical Engineering (Undergraduate, 1 semester)  
Electromechanical Energy Conversion (Undergraduate, 4 semesters)  
Power Electronics (Undergraduate, 4 semesters)  
Circuit Theory I (Undergraduate, 1 semester)  
Circuit Theory II (Undergraduate, 1 semester)  
Capstone Project (Undergraduate, 5 semesters)  
Engineering Mathematics (Graduate, 2 semesters)
- Recent duties:** Master's & Doctoral Programs Coordinator, Electrical & Electronics Engineering, BAU  
Credit Transfer Commission, Electrical & Electronics Engineering, BAU  
Accreditation Commission, Electrical & Electronics Engineering, BAU

**Grants:** TUBITAK 2214, Abroad research scholarship

**Foreign languages:** English (Advanced), German (Beginner)

**Programming languages:** Matlab, Python, Visual Basic, PLC, HTML

**Softwares related to my research interest:** Matlab (technical computing)  
DSA Tools, Matpower, Power World, PSAT (power system analysis)  
WEKA, CART (machine learning)

**Memberships:** Turkish Chamber of Electrical Engineers  
IEEE (Ex-Vice Chair of IEEE PES Turkey Chapter, 2017-2018)

**Conference committees:** IEEE ISGT Europe 2014, Organizing Committee  
ICSG 2016, Science Committee

**Personal interests:** Audio amplification design, guitar, photography, chess, snooker.

### List of publications

#### International peer-reviewed journals (SCI):

**C.F. Kucuktezcan**, V.M.I. Genc, O.K. Erol, "Preventive and Corrective Control Actions via Heuristic Optimization Methods with Consecutive Search Space Reduction", *Electric Power Components and Systems*, 2019. doi: 10.1080/15325008.2019.1575933

**C.F. Kucuktezcan**, V.M.I. Genc, "Mean-Variance Mapping Optimization for the Dynamic Security Enhancement of Power Systems", *Turkish Journal of Electrical Engineering & Computer Sciences*, 25(4), pp. 3188-3200, 2017. doi: 10.3906/elk-1608-147

**C.F. Kucuktezcan**, V.M.I. Genc, "Preventive and Corrective Control Applications in Power Systems via Big Bang-Big Crunch Optimization", *International Journal of Electrical Power & Energy Systems*, 67, pp. 114-124, 2015. doi: 10.1016/j.ijepes.2015.11.022

**C.F. Kucuktezcan**, V.M.I. Genc, "A New Dynamic Security Enhancement Method via Genetic Algorithms Integrated with Neural Network Based Tools", *Electric Power Systems Research*, 83(1), pp.1-8, 2012. doi: 10.1016/j.epr.2011.09.004

#### National peer-reviewed journals:

P. Beyranvand, **C.F. Kucuktezcan**, Z. Cataltepe, V.M.I. Genc, "A Novel Feature Selection Method for the Dynamic Security Assessment of Power Systems Based on Multi-Layer Perceptrons", *International Journal of Intelligent Systems and Applications in Engineering*, 6(1), pp. 53-58, 2018.

V.M.I. Genc, **C.F. Kucuktezcan**, M. Mahdi, "Elektrik Güç Sistemlerinin Geçici Hal Kararlılığı için Önleyici ve Düzeltici Kontrol Sistemleri" *3eelectrotech*, pp. 16-22, 2018.

B.E. Turkay, **F. Kucuktezcan**, A. Bulut, "Optimization of Inter-Area Transfer Capability on Power Systems", *EMO Scientific Journal*, pp. 31-39, 2011.

#### International conferences:

**C.F. Kucuktezcan**, V.M.I. Genc, O.K. Erol "An Optimization Method for Preventive Control Using Differential Evolution with Consecutive Search Space Reduction", *IEEE PES Conference on Innovative Smart Grid Technologies (ISGT) Europe*, Ljubljana, Slovenia, 2016.

**C.F. Kucuktezcan**, V.M.I. Genc, "A Comparison between ANN Based Methods of Critical Clearing Time Estimation", *8th International Conference on Electrical and Electronics Engineering (ELECO)*, Bursa, Turkey, 2013.

**C.F. Kucuktezcan**, V.M.I. Genc, "Big Bang-Big Crunch Based Optimal Preventive Control Action on Power Systems", *IEEE PES Conference on Innovative Smart Grid Technologies (ISGT) Europe*, Berlin, Germany, 2012.

**C.F. Kucuktezcan**, V.M.I. Genc, "Optimal Load Shedding Scheme in Power Systems Based on Big Bang Big Crunch Method", *International Conference on Power and Energy Systems and Applications*, Pittsburgh, USA, 2011.

**C.F. Kucuktezcan**, V.M.I. Genc, "Dynamic Security Assessment of a Power System Based on Probabilistic Neural Networks", *IEEE PES Conference on Innovative Smart Grid Technologies (ISGT) Europe*, Goteborg, Sweden, 2010.