

## Asst. Prof. FATİH MEHMET NUROĞLU

### Personal Information

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**Post Address:** KTÜ, Elektrik-Elektronik Mühendisliği Bölümü, Kanuni Kampüsü, Trabzon, 61080

### Education Information

Doctorate, Kocaeli University, Fen Bilimleri, Elektrik Mühendisliği, Turkey 2006 - 2011

Post Graduate, Pennsylvania State University University College Park Campus, Graduate School , Electrical Engineering Department, United States Of America 1995 - 1997

Under Graduate, Istanbul Technical University, Elektrik-Elektronik Mühendisliği Fakültesi, Elektrik Mühendisliği Bölümü, Turkey 1988 - 1992

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Dağıtılmış Üretim içeren Dağıtım Sistemlerinde Merkezi Koordinasyon Rölesi, Kocaeli University, Fen Bilimleri, Elektrik Mühendisliği, 2011

Post Graduate, Economic Load Dispatch with Load Flow Using Hopfield Neural Network, Pennsylvania State University University College Park Campus, Graduate School, Electrical Engineering Department, 1997

### Research Areas

Electrical and Electronics Engineering, Energy, Direct Energy Conversion and Energy Storage, Power System Analysis, Generating Stations and Plants, Electric Power Transmission, Distribution and Protection, Protection Systems, Renewable energy, Engineering and Technology

### Academic Titles / Tasks

Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2018 - Continues

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2012 - 2018

### Professional Experience

Deputy Head of Department, Karadeniz Technical University, 2014 - 2016

### Courses

Güç Sistemlerinde Koruma, Under Graduate, 2014 - 2015

Power System Analysis, Under Graduate, 2013 - 2014

İş Güvenliği, Under Graduate, 2014 - 2015

## Advising Theses

- NUROĞLU F. M. , 154 kV Çamoluk Trafo Merkezinde Aşırı Gerilim Durumunun İncelenmesi, Post Graduate, A.Çiçek(Student), Continues
- NUROĞLU F. M. , Dağıtım Şebekesinde Gerilim Profilinin Düzenlenmesi, Post Graduate, U.Çoşkun(Student), Continues
- NUROĞLU F. M. , Geniş Bölge İzleme Sistemlerinde Olay Yakalama Algoritması, Post Graduate, M.Emre(Student), 2019
- NUROĞLU F. M. , Improving The Reliability Of Nigeria's Electricity Grid With Renewable Energy Microgrids, Post Graduate, O.Oluwajuwon(Student), 2019
- NUROĞLU F. M. , Elektrik İletim Hatlarındaki İzolatör Hasarlarının Derin Öğrenme (Deep Learning) Yöntemi İle Tespiti, Post Graduate, A.TURFANDA(Student), 2019
- NUROĞLU F. M. , Toprak Özgül Direncine Isı ve Rutubet Etkisinin Modellenmesi, Post Graduate, M.Yılmaz(Student), 2018
- NUROĞLU F. M. , Seri Kapasitör İçeren İletim Hatlarında Senkro Fazör Ölçüm (PMU) Tabanlı Koruma Algoritması, Post Graduate, D.Can(Student), 2017
- NUROĞLU F. M. , Fotovoltaik Sistemlerin Elektrik Enerjisi Üretim Modeli, Post Graduate, H.Okumuş(Student), 2016
- NUROĞLU F. M. , Doğu Karadeniz Bölgesinin Elektrik İletim Şebekesinde Hibrit HVDC Uygulaması, Post Graduate, E.Karaca(Student), 2016
- NUROĞLU F. M. , Dağıtılmış Üretim Kaynaklarının Arsin Trafo Merkezi ve Radyal Dağıtım Şebekesine Etkileri, Post Graduate, A.Aksoy(Student), 2016

## Jury Memberships

- Academic Staff Examination, KTÜ Trabzon MYO öğretim görevlisi sınav jürisi, KTÜ Trabzon MYO, October, 2015
- Academic Staff Examination, Borçka ACARLAR MYO Elektrik ve Enerji bölümü öğretim elemanı alımı, Artvin Çoruh Üniversitesi, January, 2015
- Post Graduate, Yüksek Lisans Tez Savunma , Karadeniz Teknik Üniversitesi, June, 2014
- Doctorate, Doktora Tez Savunma, Karadeniz Teknik Üniversitesi, April, 2014
- Post Graduate, Yüksek Lisans Tez Savunma , Karadeniz Teknik Üniversitesi, January, 2014
- Academic Staff Examination, Araştırma Görevlisi sınavı, Recp Tayyip Erdoğan Üniversitesi, January, 2014
- Post Graduate, Yüksek Lisans Tez Savunma , Karadeniz Teknik Üniversitesi, May, 2012
- Doctorate, Doktora Tez Savunma, Karadeniz Teknik Üniversitesi, March, 2012

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Central coordination relay for distribution systems with distributed generation**  
NUROĞLU F. M. , BASA ARSOYA.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.23, pp.2150-2160, 2015 (Journal Indexed in SCI)
- **Generator Outage Identification by Use of Electromechanical State-Space Model Analysis**  
Baldwin M. W. , Liu Y., NUROĞLU F. M.  
IEEE TRANSACTIONS ON POWER SYSTEMS, vol.29, pp.1831-1838, 2014 (Journal Indexed in SCI)
- **A New Approach for Protection and Control of Distribution Systems with DG**  
Nuroglu F. M. , Arsoy A. B.  
INTERNATIONAL REVIEW OF ELECTRICAL ENGINEERING-IREE, vol.5, pp.2350-2356, 2010 (Journal Indexed in SCI)
- **Real power optimization with load flow using adaptive Hopfield neural networks**  
Lee K. Y. , Nuroglu F. M. , Sode-Yome A.  
ENGINEERING INTELLIGENT SYSTEMS FOR ELECTRICAL ENGINEERING AND COMMUNICATIONS, vol.8, pp.53-57, 2000 (Journal Indexed in SCI)

## Articles Published in Other Journals

- **Investigation of the effects of series capacitor on transmission network in steady state**  
Samuk D. C. , NUROĞLU F. M.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.25, pp.577-585, 2019 (Journal Indexed in ESCI)
- **The Effects of Distributed Generation on System Power Losses**  
AKSOY A., NUROĞLU F. M.  
Afyon Kocatepe University Journal of Science and Engineering, pp.18-23, 2016 (National Refreed University Journal)
- **Dağıtılmış Üretim Kaynaklarının Şebekedeki Güç Kaybına Etkileri**  
AKSOY A., NUROĞLU F. M.  
AFYON KOCATEPE ÜNİVERSİTESİ FEN VE MÜHENDİSLİK BİLİMLERİ DERGISİ, pp.18-23, 2016 (National Refreed University Journal)
- **Dağıtılmış Üretim Kaynağı İçeren Dağıtım Sistemlerinde Sürekli Durum ve Kısa Devre Analizi**  
NUROĞLU F. M. , Arsoy A. B.  
3e ELECTROTECH, pp.104-110, 2009 (Other Refereed National Journals)

## Refereed Congress / Symposium Publications in Proceedings

- **Technical and Economical Analysis of Medium Voltage Distribution Grid of Erzurum on Overload Condition**  
Aksoy A., Celebi M., Nuroğlu F. M.  
11th International Conference on Electrical and Electronics Engineering, ELECO 2019, Bursa, Turkey, 28 - 30 November 2019, pp.69-75
- **Event Detection and Classification Algorithm Using Wide Area Measurement Systems**  
OKUMUŞ H., NUROĞLU F. M.  
6th IEEE International Conference on Smart Energy Grid Engineering, SEGE 2018, Oshawa, Canada, 12 - 15 August 2018, pp.230-233
- **Design of Permissible Step and Touch Voltage with Simulink and Matlab Guide**  
YILMAZ M., NUROĞLU F. M.  
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- **Power System Event Classification Based on Machine Learning**  
OKUMUŞ H., NUROĞLU F. M.  
3rd International Conference on Computer Science and Engineering (UBMK), Sarajevo, Bosnia And Herzegovina, 20 - 23 September 2018, pp.402-405
- **Güç Sistemlerinde Mikro Şebekelerin Gelişimi**  
AKSOY A., NUROĞLU F. M.  
2nd International Conference on Advanced Engineering Technologies (ICADET'17), Bayburt, Turkey, 21 - 23 September 2017, pp.1015
- **Advantages And Disadvantages Of Using Series Capacitor For Transmission Lines**  
Samuk D., NUROĞLU F. M.  
International Energy and Engineering Conference (UEMK), Gaziantep, Turkey, 13 - 14 October 2016, pp.245-251
- **HVDC Modelling of Electricity Transmission System and Analysis of Load Flow in DigSilent PowerFactory**  
KARACA E., NUROĞLU F. M.  
International Conference on Engineering Technology and Applied Sciences, Afyon, Turkey, 21 - 22 April 2016, pp.594-596
- **The Effects Of Distributed Generation On System Power Losses**  
AKSOY A., NUROĞLU F. M.  
1st INTERNATIONAL CONFERENCE ON ENGINEERING TECHNOLOGY AND APPLIED SCIENCES,, Afyon, Turkey, 21 - 22 April 2016, pp.514
- **Modeling and Simulation of PV Modules with Voltage Feedback in MATLAB/Simuink**  
OKUMUŞ H., NUROĞLU F. M.  
Proceedings of 2016 International Conference on Image Processing, Production and Computer Science

(ICIPCS'2016), Londra, United Kingdom, 26 - 27 March 2016, pp.10-16

- **Worldwide Power System Oscillations Observed by Distribution Level Phasor Measurements**

Guo J., Zhang Y., King T., Liu Y., David B., NUROĞLU F. M. , Bai F., Wang X., Wang X.

CIGRE US National Committee 2013 Grid of the Future Symposium, Paris, France, 5 - 07 June 2013, pp.1

- **Low-Frequency Oscillation from Turkey to Spain in Europe Monitored by FNET**

NUROĞLU F. M. , Liu Y.

Industry Conference & NSF/DOE Annual Site Visit, Knoxville, United States Of America, 16 - 18 April 2013, pp.1

- **Impact of System Parameters on Electromechanical Wave Propagation**

NUROĞLU F. M. , Liu Y., Xiaorong .

Industry Conference & NSF/DOE Annual Site Visit, Knoxville, United States Of America, 16 - 18 April 2013, pp.1

- **Dağıtılmış Üretim Kaynaklarının Verimli Çalışmasına Yönelik Yeni Bir Yaklaşım**

NUROĞLU F. M. , Arsoy A. B.

3. Enerji Verimliliği ve Kalitesi Sempozyumu, Kocaeli, Turkey, 21 - 22 May 2009, pp.303-306

- **Dağıtılmış Üretim Kaynağı İçeren Dağıtım Sistemlerinde Sürekli Durum ve Kısa Devre Analizi**

NUROĞLU F. M. , Arsoy A. B.

ELECO-2008, Bursa, Turkey, 26 - 30 November 2008, pp.322-325

- **Voltage Profile and Short Circuit Analysis in Distribution Systems with DG**

Nuroglu F. M. , Arsoy A. B.

IEEE Electrical Power and Energy Conference, Vancouver, Canada, 6 - 07 October 2008, pp.107-111

## Supported Projects

ALTAŞ İ. H. , KAYIKÇIOĞLU T., ÇAVDAR İ. H. , ÖZKOP E., SEVİM Y., ÇAKIR O., HACIOĞLU G., YAZGAN A., KAYA H., NUROĞLU F. M. , et al., Project Supported by Higher Education Institutions, ElektrikElektronik Mühendisliği Bölümü Lisans Laboratuvarları Altyapısının İyileştirilmesi, 2016 - 2017

## Activities in Scientific Journals

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, Editor, 2015 - 2015

## Memberships / Tasks in Scientific Organizations

IEEE, Member, 2014 - Continues

Elektrik Mühendisleri Odası, Member, 2008 - Continues

## Scientific Refereeing

TUBITAK Project, October 2017

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, May 2015

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, April 2015

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, March 2015

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, February 2015

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, February 2015

PES General Meeting 2015 , Other journals, January 2015

TUBITAK Project, January 2015

TUBITAK Project, December 2014

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, November 2014

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, November 2014

TUBITAK Project, August 2014

IEEE PES ISGT Europe 2014, Other journals, July 2014

TUBITAK Project, July 2014

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, April 2014

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, January 2014

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, February 2013

TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, May 2012

## Scientific Consultations

Tübitak- Mam Enerji Enstitüsü, Scientific Consultancy, Karadeniz Technical University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, Turkey, 2014 - 2018

## Scientific Research / Working Group Memberships

Akademik Kurul, ELDER, Turkey, 2016 - 2017

## Invited Congress and Symposium Activities

Elektrik - Elektronik Mühendisliği Kongresi (EEMKON) 2017, Attendee, İstanbul, Turkey, 2017

Elektrik - Elektronik Mühendisliği Kongresi (EEMKON) 2017, Invited Speaker, İstanbul, Turkey, 2017

Elektrik - Elektronik Mühendisliği Kongresi (EEMKON) 2015, Attendee, İstanbul, Turkey, 2017

Elektrik - Elektronik Mühendisliği Konferansı, Attendee, Turkey, 2015

ELDER 2. Ar-Ge Çalıştayı, Attendee, Ankara, Turkey, 2015

2. Türkiye Elektrik İletim Sistemi Çalıştayı, Invited Speaker, Ankara, Turkey, 2015

GÜÇ SİSTEMLERİNİN GELECEĞİ VE ELEKTROMEKANİK ENDÜSTRİSİNİN ROLÜ Konferansı, Attendee, İstanbul, Turkey, 2015

2. Türkiye Elektrik İletim Sistemi Çalıştayı, Attendee, Ankara, Turkey, 2015

Erasmus Plus Personel Hareketliliği, Attendee, Siegen, Germany, 2015

ERA-Net Smart Grids Plus "2ND WORKSHOP AND MATCHMAKING", Attendee, Wien, Austria, 2015

ELDER 1. Ar-Ge Çalıştayı, Attendee, Ankara, Turkey, 2015

Yenilenebilir Enerji Kaynaklarının Şebeke Entegrasyonunda EMTP-ATP, Attendee, Yalova, Turkey, 2014

Securing Europe's Competitive Energy Future, Attendee, Brüksel, Belgium, 2014

1. Türkiye Elektrik İletim Sistemi Çalıştayı, Teiaş, Attendee, Ankara, Turkey, 2014

Industry Conference & NSF/DOE Annual Site Visit, Attendee, Knoxville, United States Of America, 2013

3. Enerji Verimliliği ve Kalitesi Sempozyumu, Attendee, Kocaeli, Turkey, 2009

## Citations

Total Citations (WOS):25

h-index (WOS):2