Prof. MURAT GÖL

Personal Information

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Education Information

Doctorate, Northeastern University, Electrical And Computer Engineering, United States Of America 2010 - 2014
Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Elektrik Ve Elektronik
Mühendisliği (Yl) (Tezli), Turkey 2007 - 2009
Undergraduate, Middle East Technical University, Faculty of Engineering, Elektrik-Elektronik Mühendisliği Bölümü,
Turkey 2003 - 2007

Dissertations

Doctorate, Incorporation of pmus in power system state estimation, Northeastern University, Electrical And Computer
Engineering, 2014
Postgraduate, A new field-data based EAF (electric arc furnace) model applied to power quality studies, Middle East
Technical University, Graduate School of Natural and Applied Sciences, Elektrik Ve Elektronik Mühendisliği (Yl) (Tezli),
2009

Research Areas

Electrical and Electronics Engineering, Energy, Power System Analysis, Electric Power Transmission, Distribution and
Protection, Renewable energy, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics
Engineering, 2019 - Continues
Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics
Engineering, 2018 - 2019
Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics
Engineering, 2014 - 2018

Academic and Administrative Experience

Deputy Head of Department, Middle East Technical University, Faculty of Engineering, Department of Electrical and Electronics Engineering, 2019 - 2022

Advising Theses

Göl M., ASSESTMENT OF COOPERATION OF PHOTOVOLTAICS AND ELECTRIFIED MICRO MOBILITY IN THE CONCEPT OF NET ZERO ENERGY CITIES, Postgraduate, N.AYDINALP(Student), 2024
Göl M., A distributed control strategy for network of microgrids, Doctorate, M.ERDEM(Student), 2024
GÖL M., Multi-objective charging scheduling utilizing electric vehicle load models, Postgraduate, İ.GÜZEL(Student), 2022
GÖL M., A parameter error identification method for power plant dynamic models, Postgraduate, E.AÇILAN(Student), 2022
GÖL M., MODIFIED FORWARD BACKWARD SWEEP POWER FLOW SOLUTION FOR NAVAL PLATFORMS WITH MULTIPLE GENERATORS, Postgraduate, A.TALAT(Student), 2022
GÖL M., An improved energy requirement prediction for queueing applications of electric vehicles based on parameter estimation, Postgraduate, B.SAĞLAM(Student), 2022
GÖL M., Performance improvement for situational awareness and restoration of distribution systems, Postgraduate, U.CAN(Student), 2021
GÖL M., Sparse matrix library for power system state estimation based on full knuth's method, Postgraduate, T.YILDIZ(Student), 2021
GÖL M., Design of a centralized microgrid controller in compliance with IEEE 2030.7 standard, Postgraduate, S.POURALTAFI(Student), 2021
Göl M., A novel methodology for medium and long-term electricity market modeling, Doctorate, E.İLSEVEN(Student), 2020
Göl M., Substation level state estimation and topology error processing, Postgraduate, E.SARUHAN(Student), 2020
Göl M., Utilization of realistic pumped hydroelectric storage system model for various optimal short term control strategies, Postgraduate, O.ÜSTÜNDAĞ(Student), 2019
Göl M., Predicting actual load demand in distribution systems with high pv penetration, Postgraduate, U.YILDIZ(Student), 2019
GÖL M., Very short term load forecasting aided hybrid state estimator with optimally placed pseudo-measurements, Postgraduate, B.ÖZSOY(Student), 2018
GÖL M., A generalized mathematical model of DC catenary lines, Postgraduate, M.ERDEM(Student), 2018
GÖL M., Incorporation of DSSC in real time congestion management, Postgraduate, R.GÜNAY(Student), 2018
GÖL M., Optimal maintenance scheduling for transmission lines, Postgraduate, E.BERK(Student), 2018
GÖL M., Evaluation of photovoltaic systems for voltage quality, Postgraduate, D.ŞENGÜL(Student), 2018
GÖL M., Two new indices for the assessment of regional transmission connection capacities, Postgraduate, A.HAYDAR(Student), 2017
GÖL M., Optimal phasor measurement unit (PMU) placement for the power systems with existing SCADA measurements, Postgraduate, B.ERTÜRK(Student), 2017
GÖL M., State estimation based fault location using pmu measurements, Postgraduate, A.ÖNER(Student), 2016
GÖL M., A Local parameter estimator based on robust LAV estimation, Postgraduate, V.Özdemir(Student), 2015
GÖL M., A local parameter estimator based on robust lav estimation, Postgraduate, V.ÖZDEMİR(Student), 2015

Published journal articles indexed by SCI, SSCI, and AHCI

I. **WLAV state estimation based topology error detection and identification in distribution networks with limited number of measurements**
PARLAKTUNA K., Dursun E., GÖL M.
Electric Power Systems Research, vol.232, 2024 (SCI-Expanded)
II. **A Novel Parameter Error Identification Method for Power Plant Dynamic Models**

Acilan E., GÖL M.

IEEE Transactions on Power Systems, vol.39, no.1, pp.957-966, 2024 (SCI-Expanded)

III. **PMU-Based Dynamic Model Calibration of Type 4 Wind Turbine Generators**

Erden F., Acilan E., Ustundag O., Bozkurt E., GÖL M.

Electronics (Switzerland), vol.12, no.9, 2023 (SCI-Expanded)

IV. **MDP based real time restoration for earthquake damaged active distribution systems**

Arpali O. Y., Yilmaz U. C., GÜLDÜR ERKAL B., AYDIN GÖL E., GÖL M.

Electric Power Systems Research, vol.218, 2023 (SCI-Expanded)

V. **Plug-in electric vehicle load modeling for charging scheduling strategies in microgrids**

GÜZEL İ., GÖL M.

SUSTAINABLE ENERGY GRIDS & NETWORKS, vol.32, 2022 (SCI-Expanded)

VI. **A Computationally Efficient Topology Identifiability Analysis of Distribution Systems**

Eser F., Yılmaz U. C., Dursun E., Cinalioglu M. C., Göl M.

Electric Power Systems Research, vol.208, 2022 (SCI-Expanded)

VII. **Identifiability Analysis for Power Plant Parameter Calibration in the Presence of Collinear Parameters**

AÇILAN E., GÖL M.

IEEE Transactions on Power Systems, vol.37, no.4, pp.2988-2997, 2022 (SCI-Expanded)

VIII. **A partitioning strategy for improved state estimation performance in ill-conditioned power systems with hybrid measurement set**

Yildiz T., AÇILAN E., GÖL M.

ELECTRIC POWER SYSTEMS RESEARCH, vol.201, 2021 (SCI-Expanded)

IX. **Centralized Microgrid Control System in Compliance with IEEE 2030.7 Standard Based on an Advanced Field Unit**

Pouraltafi-kheljan S., Ugur M., Bozulu E., Caliskan B. C., KEYSAN O., GÖL M.

ENERGIES, vol.14, no.21, 2021 (SCI-Expanded)

X. **Incorporation of generator maintenance scheduling with long-term power sector forecasting and planning studies**

Ilseven E., Göl M.

IET GENERATION TRANSMISSION & DISTRIBUTION, vol.14, pp.2581-2591, 2020 (SCI-Expanded)

XI. **Harmony Search Algorithm Based Management of Distributed Energy Resources and Storage Systems in Microgrids**

Ceylan O., SEZGİN M. E., GÖL M., Verga M., Lazzari R., Kwaye M. P., Sandroni C.

APPLIED SCIENCES-BASEL, vol.10, no.9, 2020 (SCI-Expanded)

XII. **A Model Predictive Control for Microgrids Considering Battery Aging**

Yilmaz U. C., SEZGİN M. E., GÖL M.

JOURNAL OF MODERN POWER SYSTEMS AND CLEAN ENERGY, vol.8, no.2, pp.296-304, 2020 (SCI-Expanded)

XIII. **Assessment of regional transmission connection capacity based on two novel indices**

GUVERCİNCİ A. H., GÖL M.

IET GENERATION TRANSMISSION & DISTRIBUTION, vol.12, no.14, pp.3470-3476, 2018 (SCI-Expanded)

XIV. **Hydro-Optimization-Based Medium-Term Price Forecasting Considering Demand and Supply Uncertainty**

İLSEVEN E., GÖL M.

IEEE TRANSACTIONS ON POWER SYSTEMS, vol.33, no.4, pp.4074-4083, 2018 (SCI-Expanded)

XV. **A Decentralization Method for Hybrid State Estimators**

GÖL M.

IEEE TRANSACTIONS ON POWER SYSTEMS, vol.33, no.2, pp.2070-2077, 2018 (SCI-Expanded)

XVI. **Determination of harmonic current contributions based on robust state estimation**

Sezgin E., GÖL M., Salor O.

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.26, no.1, pp.307-318, 2018 (SCI-Expanded)

XVII. **Robust local parameter estimator based on least absolute value estimator**
ÖZDEMİR V., GÖL M.
Turkish Journal Of Electrical Engineering And Computer Sciences, vol.25, pp.3143-3151, 2017 (SCI-Expanded)

XVIII. **State-Estimation-Based Determination of Harmonic Current Contributions of Iron and Steel Plants Supplied from PCC**
Sezgin E., GÖL M., Salor O.
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, vol.52, no.3, pp.2654-2663, 2016 (SCI-Expanded)

XIX. **A Fast Decoupled State Estimator for Systems Measured by PMUs**
Goel M., Abur A.
IEEE TRANSACTIONS ON POWER SYSTEMS, vol.30, no.5, pp.2766-2771, 2015 (SCI-Expanded)

XX. **A Hybrid State Estimator For Systems With Limited Number of PMUs**
Goel M., Abur A.
IEEE TRANSACTIONS ON POWER SYSTEMS, vol.30, no.3, pp.1511-1517, 2015 (SCI-Expanded)

XXI. **A Robust PMU Based Three-Phase State Estimator Using Modal Decoupling**
Goel M., Abur A.
IEEE TRANSACTIONS ON POWER SYSTEMS, vol.29, no.5, pp.2292-2299, 2014 (SCI-Expanded)

XXII. **LAV Based Robust State Estimation for Systems Measured by PMUs**
Goel M., Abur A.
IEEE TRANSACTIONS ON SMART GRID, vol.5, no.4, pp.1808-1814, 2014 (SCI-Expanded)

XXIII. **Observability and Criticality Analyses for Power Systems Measured by Phasor Measurements**
Goel M., Abur A.
IEEE TRANSACTIONS ON POWER SYSTEMS, vol.28, no.3, pp.3319-3326, 2013 (SCI-Expanded)

XXIV. **Metrics for Success Performance Metrics for Power System State Estimators and Measurement Designs**
Goel M., Abur A., Galvan F.
IEEE POWER & ENERGY MAGAZINE, vol.10, no.5, pp.50-57, 2012 (SCI-Expanded)

XXV. **A New Field-Data-Based EAF Model for Power Quality Studies**
Gol M., Salor O., ALBOYACI B., Mutluer B., ÇADIRCI I., ERMİŞ M.
IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, vol.46, no.3, pp.1230-1242, 2010 (SCI-Expanded)

Articles Published in Other Journals

I. **Enerji Depolama Sistemlerinin Farklı Kullanım Zamanlarının Elektrik Sistemine Olan Etkisi**
SEZGİN M. E., GÜDELEK M. U., ARIN E., ÇIRAK C. R., GÖL M.
Fırat Üniversitesi Mühendislik Bilimleri Dergisi, vol.30, pp.7-14, 2018 (Peer-Reviewed Journal)

Books & Book Chapters

I. **METU Smart Campus Project (iEAST)**
ERTEKİN BOLELLİ Ş., KEYSAN O., GÖL M., Bayazit H., Yildiz T., Marr A., Ganji M., Teimourzadeh S., Tör O. B., Özkavaf S.
in: New Technologies, Development and Application II, Isak Karabegović, Editor, Springer, pp.287-297, 2019

Refereed Congress / Symposium Publications in Proceedings

I. **Solar Energy Production Estimation in Distribution Networks with Limited Number of Measurements**
Sınırlı Sayıda Ölçüm İle Dağıtım Şebekelerinde Güneş Enerjisi Üretim Kestirimi
Küçükaslan Ö. A., GÖL M.

32nd IEEE Conference on Signal Processing and Communications Applications, SIU 2024, Mersin, Turkey, 15 - 18 May 2024

II. **Monitoring Voltage Distortions Caused by Supraharmonics in Active Distribution Networks**
Küçükaslan Ö. A., Erkan A. N. Ö., Kaya K., Özen C., Büyükbaş B., Özcan N., Cinalioğlu P., Göl M., Bayatmakoo A.
14th International Conference on Electrical and Electronics Engineering, ELECO 2023, Virtual, Bursa, Turkey, 30 November - 02 December 2023

III. **Topological Error Localization in Power Distribution Networks Based on WLAV State Estimation**
Parlaktuna K., Dursun E., Özcan M., Göl M.
2023 IEEE PES Innovative Smart Grid Technologies Europe, ISGT EUROPE 2023, Grenoble, France, 23 - 26 October 2023

IV. **Assesment of Supraharmonic Injections in Turkish Distribution Systems**
Küçükaslan Ö. A., Erkan A. N. Ö., Kaya K., Özen C., Büyükbaş B., Özcan N., Avşar T., Cinalioğlu P., Göl M., Bayatmakoo A.
2023 IEEE PES Innovative Smart Grid Technologies Europe, ISGT EUROPE 2023, Grenoble, France, 23 - 26 October 2023

V. **Lightweight Photovoltaic Forecasting Method for Agricultural Microgrids**
Brown P. D., Göl M.
14th International Conference on Electrical and Electronics Engineering, ELECO 2023, Virtual, Bursa, Turkey, 30 November - 02 December 2023

VI. **PMU based Dynamic Model Calibration of Type-4 Wind Turbine Generators**
AÇILAN E., Erden F., Ustundag O., Bozkurt E., GÖL M.
57th International Universities Power Engineering Conference: Big Data and Smart Grids, UPEC 2022, İstanbul, Turkey, 30 August - 02 September 2022

VII. **Operational Optimization of an Agricultural Microgrid**
Brown P. D., GÖL M.
57th International Universities Power Engineering Conference: Big Data and Smart Grids, UPEC 2022, İstanbul, Turkey, 30 August - 02 September 2022

VIII. **Improved Situational Awareness for Power Distribution Systems Based on WLAV Estimator and Direct Load Flow Solution**
PARLAKTUNA K., Dursun E., Cinalioglu M. C., GÖL M.
57th International Universities Power Engineering Conference: Big Data and Smart Grids, UPEC 2022, İstanbul, Turkey, 30 August - 02 September 2022

IX. **Stochastic Model Predictive Control for Microgrids Based on Monte Carlo Simulations**
Sezgin M. E., Pouraltafi-Kheljan S., Beyarslan M., GÖL M.
57th International Universities Power Engineering Conference: Big Data and Smart Grids, UPEC 2022, İstanbul, Turkey, 30 August - 02 September 2022

X. **Parameter Estimation of Electric Vehicles for Improved Range Prediction**
Saglam B., BOSTANCI E., GÖL M.
11th IEEE PES Innovative Smart Grid Technologies Europe, ISGT Europe 2021, Espoo, Finland, 18 - 21 October 2021

XI. **Optimal Placement of Different Types of Measurements for Active Distribution Systems**
Pouraltafi-Kheljan S., GÖL M.
11th IEEE PES Innovative Smart Grid Technologies Europe, ISGT Europe 2021, Espoo, Finland, 18 - 21 October 2021

XII. **Plug-in Electric Vehicle Load Modeling for Smart Charging Strategies in Microgrids**
GÜZEL İ., GÖL M.
4th International Conference on Smart Energy Systems and Technologies (SEST), ELECTR NETWORK, 6 - 08 September 2021

XIII. **MDP based Decision Support for Earthquake Damaged Distribution System Restoration**
ARPALI O. Y., YILMAZ U. C., AYDIN GÖL E., GÜLDÜR ERKAL B., GÖL M.
IEEE-PES General Meeting, 2 - 06 August 2020

XIV. **Three-phase state estimation based on symmetrical components**
GÖL M.
10th IEEE PES Innovative Smart Grid Technologies Europe, ISGT-Europe 2020, Delft, Netherlands, 26 - 28 October 2020, vol.2020-October, pp.186-190

XV. **Power generation nowcasting of the behind-the-meter photovoltaic systems**
Pouraltafikheljan s., GÖL M.
10th IEEE PES Innovative Smart Grid Technologies Europe, ISGT-Europe 2020, Delft, Netherlands, 26 - 28 October 2020, vol.2020-October, pp.384-388

XVI. **Solar power generation prediction for distribution systems with high PV penetration**
YILDIZ U., GÖL M.
10th IEEE PES Innovative Smart Grid Technologies Europe, ISGT-Europe 2020, Delft, Netherlands, 26 - 28 October 2020, vol.2020-October, pp.389-393

XVII. **Solar power generation analysis and forecasting real-world data using LSTM and autoregressive CNN**
tosun n., sert e., AYAZ E., YILMAZ e., GÖL M.
3rd International Conference on Smart Energy Systems and Technologies, SEST 2020, Virtual, Istanbul, Turkey, 7 - 09 September 2020

XVIII. **Detection of Unauthorized Photo-Voltaic System Connection for Low Voltage Grids**
Pouraltafi-Kheljan S., GÖL M.
28th Signal Processing and Communications Applications Conference (SIU), ELECTR NETWORK, 5 - 07 October 2020

XIX. **METU Smart Campus Project (iEAST)**
ERTEKİN BOLELLİ Ş., KEYSAN O., GÖL M., beyazıt h., YILDIZ T., Marr A., Ganji M., Teimourzadeh S., Tör O. B., Özkavaf S.
International Conference on New Technologies, Development and Application, Sarajevo, Bosnia And Herzegovina, 27 - 29 June 2019, vol.76, pp.287-297

XX. **MDP based Decision Support for Earthquake Damaged Distribution System Restoration**
Arpali O. Y., Yilmaz U. C., Gol E. A., Erkal B. G., GÖL M.
IEEE-Power-and-Energy-Society General Meeting (PESGM), ELECTR NETWORK, 3 - 06 August 2020

XXI. **A Malfunction Detection Method For PV Systems**
Yildiz T., GÖL M.
IEEE Milan PowerTech Conference, Milan, Italy, 23 - 27 June 2019

XXII. **A Comparative Study on Feature Selection based Improvement of Medium-Term Demand Forecast Accuracy**
Ilseven E., GÖL M.
IEEE Milan PowerTech Conference, Milan, Italy, 23 - 27 June 2019

XXIII. **A Novel MDP Based Decision Support Framework to Restore Earthquake Damaged Distribution Systems**
AYDIN GÖL E., GÜLDÜR ERKAL B., GÖL M.
IEEE PES Innovative Smart Grid Technologies Europe (IEEE ISGT-Europe), Bucharest, Romania, 29 September - 02 October 2019

XXIV. **Evaluation of Photovoltaic Systems For Reactive Power Compensation In Low Voltage Power Systems**
Uğur M., Duymaz E., Göl M., Keysan O.
ISGT Europe 2018, Sarajevo, Bosnia And Herzegovina, 21 - 25 October 2018

XXV. **A Hybrid State Estimation Strategy With Optimal Use of Pseudo-Measurement**
ÖZSOY b., GÖL M.
ISGT-Europe 2018, 21 - 25 October 2018

XXVI. **Load and PV Generation Forecast Based Cost Optimization for Nanogrids with PV and Battery**
Gudelek M. U., Cirak C. R., ARIN E., SEZGİN M. E., Ozbayoglu A. M., Gol M.
53rd International Universities Power Engineering Conference, UPEC 2018, Glasgow, United Kingdom, 4 - 07

September 2018

XXVII. **A New Index for Voltage Quality Assessment at Distribution Systems**
KARACELEBİ m., ERCİN ö., GÖL M.
UPEC 2018, 4 - 07 September 2018

XXVIII. **A Strategy to Evaluate Solar Power Generation Capability Based on Historical Data**
ŞENGÜL d., GÖL M.
UPEC 2018, 4 - 07 September 2018

XXIX. **DC Catenary Line Modeling of Subway Systems**
SEZGİN M. E., GÖL M.
IEEE-Power-and-Energy-Society General Meeting (PESGM), Oregon, United States Of America, 5 - 10 August 2018

XXX. **Enerji Depolama Sistemlerinin Farklı Kullanım Zamanlarının Elektrik Sistemine Olan Etkisi**
SEZGİN M. E., GÜDELEK M. U., ARIN E., ÇIRAK C. R., GÖL M.
1. Ulusal Elektrik Enerjisi Dönüşüm Kongresi (EL-EN), Elazığ, Turkey, 21 - 22 September 2017, pp.53-59

XXXI. **Medium-Term Electricity Demand Forecasting Based on MARS**
İLSEVEN e., GÖL M.
IEEE International Conference on Innovative Smart Grid Technologies IEEE ISGT Europe 2017, 26 - 29 September 2017

XXXII. **Voltage variation model for DC catenary line of a subway system**
SEZGİN M. E., GÖL M.
2017 IEEE Manchester PowerTech, Powertech 2017, Manchester, United Kingdom, 18 - 22 June 2017

XXXIII. **Identification of bad solar power generation data Hatali Güneş Enerjisi Üretim Ölçümlerinin Tespit Edilmesi**
ŞENGÜL D., DUYMAZ E., GÖL M.
25th Signal Processing and Communications Applications Conference, SIU 2017, Antalya, Turkey, 15 - 18 May 2017

XXXIV. **Binary integer programming based PMU placement in the presence of conventional measurements**
Ertürk B., Göl M.
PES Innovative Smart Grid Technologies Conference Europe (ISGT-Europe), 2016 IEEE, Ljubljana, Slovenia, 9 - 12 October 2016

XXXV. **Evaluation of the effects of photovoltaic systems on voltage quality**
Şengül D., Göl M.
48th North American Power Symposium, NAPS 2016, Colorado, United States Of America, 18 - 20 September 2016

XXXVI. **Fault location based on state estimation in PMU observable systems**
ÖNER A., GÖL M.
2016 IEEE Power and Energy Society Innovative Smart Grid Technologies Conference, ISGT 2016, Minnesota, United States Of America, 6 - 09 September 2016

XXXVII. **State estimation based determination of harmonic current contributions of iron and steel plants supplied from PCC**
Sezgin E., GÖL M., Salor Ö.
51st Annual Meeting on IEEE Industry Application Society, IAS 2015, Texas, United States Of America, 11 - 22 October 2015

XXXVIII. **A Robust Parameter Estimation Method Based onLAV Estimator**
ÖZDEMİR V., GÖL M.
modern electric power systems 2015, Wroclaw, Poland, 6 - 09 July 2015

XXXIX. **A Robust Parameter Estimation Method Based on LAV Estimator**
Ozdemir V., GÖL M.
INTERNATIONAL CONFERENCE, 15 MEPS MODERN ELECTRIC POWER SYSTEMS, Wroclaw, Poland, 6 - 09 July 2015

XL. **A modified Chi-Squares test for improved bad data detection**
GÖL M., ABUR A.
IEEE Eindhoven PowerTech, PowerTech 2015, Eindhoven, Netherlands, 29 June - 02 July 2015

XLI. **Determination of Harmonic Current Contributions of Plants Supplied from PCC Based on State Estimation**

Sezgin E., GÖL M., Salor O.

23nd Signal Processing and Communications Applications Conference (SIU), Malatya, Turkey, 16 - 19 May 2015, pp.2062-2065

XLII. **Effective measurement design for cyber security**

GÖL M., abur a.

Power Systems Computation Conference (PSCC), 2014, 18 - 22 August 2014

XLIII. **Optimal PMU placement for state estimation robustness**

GÖL M., Abur A.

IEEE PES Innovative Smart Grid Technologies, Europe, Istanbul, Turkey, 12 - 15 October 2014

XLIV. **Identifying vulnerabilities of state estimators against cyber-attacks**

GÖL M., abur a.

PowerTech (POWERTECH), 2013 IEEE Grenoble, 16 - 20 June 2013

XLV. **PMU placement for robust state estimation**

GÖL M., Abur A.

2013 North American Power Symposium (NAPS), Manhattan, KS, USA, 22 - 24 September 2013

XLVI. **Synchro-phasor based three phase state estimation using modal components**

GÖL M., abur a.

Innovative Smart Grid Technologies (ISGT Europe), 2012 3rd IEEE PES International Conference and Exhibition on, 14 - 17 October 2012

XLVII. **Observability analysis of systems containing phasor measurements**

GÖL M., abur a.

Power and Energy Society General Meeting, 2012 IEEE, 22 - 26 July 2012

XLVIII. **Rapid tracking of bus voltages using synchro phasor assisted state estimator**

GÖL M., Abur A., Floyd G.

IEEE PES ISGT Europe 2013, Lyngby, Denmark, 6 - 09 October 2013

XLIX. **PMU based robust state estimation using scaling**

Göl M., ABUR A.

2012 North American Power Symposium, NAPS 2012, Champaign, IL, United States Of America, 9 - 11 September 2012

L. **Pseudo-Measurement Placement for Reliable State Estimation**

GÖL M., abur a.

International Conference on Probabilistic Methods Applied to Power Systems, 10 - 14 June 2012

LI. **Observability analysis and critical measurement detection for power systems measured by PMUs**

GÖL M., abur a.

Innovative Smart Grid Technologies (ISGT), 2012 IEEE PES, 16 - 20 January 2012

Supported Projects

Gürsel Dino I., Turan R., Akgül Ç., Göl M., Kalkan S., Taylan O., H2020 Project, LEGOFIT: Adaptable technological solutions based on early design actions for the construction and renovation of Energy Positive Homes, 2023 - 2027

Gürsel Dino İ., Kalkan S., Akgül Ç., Göl M., H2020 Project, UP2030: Urban Planning and design ready for 2030, 2023 - 2026

Keysan O., Göl M., TÜBİTAK International Bilateral Joint Cooperation Program Project, Community-based off-grid ultra-efficient microgrid to revive water-food security in agriculture (COMSA), 2020 - 2022

Göl M., Company, Durum Kestirimi Algoritması Geliştirme, 2020 - 2021

Göl M., Keysan O., Technopark, Research of electricity networks management methods and development of microgrid control and communication device, 2019 - 2021

Göl M., Technopark, OG ŞEBEKELERİNDE SYNCROPHASOR KULLANARAK ŞEBEKE DAYANIKLILIĞININ ARTIRIMI TEKNİK ANALİZİ ARGE PROJESİ , 2019 - 2021

Keysan O., Göl M., Tüydeş Yaman H., Project Supported by Public Organizations in Other Countries, METU - Smart Campus

Feasibility Project, 2017 - 2021

GÖL M., TUBITAK Project, Depremde Zarar Görmüş Orta Gerilim Elektrik Dağıtım Şebekelerinde Ayağa Kaldırma İçin Karar Destek Yöntemlerinin Geliştirilmesi, 2018 - 2020

GÖL M., YILDIZ U., Project Supported by Higher Education Institutions, ALÇAK GERİLİM GÜNEŞ ENERJİSİ SİSTEMLERİNİN VARLIĞINDA YÜK TALEP TAHMİNİ YÖNTEMİ, 2018 - 2019

GÖL M., TUBITAK Project, Mevcut Güç Akışı Ölçüm Cihazlarını Hesaba Katarak Belirlenmiş Artıklık Endeksine Göre Optimum Fazör Ölçüm Ünitesi Yerleştirme Metodu Geliştirilmesi, 2015 - 2017

GÖL M., ŞENGÜL D., Project Supported by Higher Education Institutions, MİLGES Projesi Kapsamında Kurulacak Olan Güneş Enerjisi Santralinin Türkiye Elektrik Sistemine Etkilerinin İncelenmesi, 2016 - 2016

Activities in Scientific Journals

IEEE Transactions on Smart Grid, Committee Member, 2019 - Continues

Turkish Journal Of Electrical Engineering And Computer Sciences, Committee Member, 2018 - Continues

JOURNAL OF MODERN POWER SYSTEMS AND CLEAN ENERGY, Editor, 2018 - 2018

Metrics

Publication: 79
Citation (WoS): 551
Citation (Scopus): 692
H-Index (WoS): 10
H-Index (Scopus): 12

Non Academic Experience

TÜBİTAK