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Personal Information

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Publons / Web Of Science ResearcherID: O-5382-2017

ScopusID: 56469924100

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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (Dr), Turkey 1998 - 2003

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (YI) (Tezli), Turkey 1995 - 1998

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Elektrik Eğitimi Bölümü, Turkey 1990 - 1995

Dissertations

Doctorate, İnternet ağları kullanarak SCADA sistem tasarımı, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (Dr), 2003

Postgraduate, Bilgisayar ortamında alternatörlerin paralel bağlanması, Gazi University, Fen Bilimleri Enstitüsü, Elektrik Eğitimi (YI) (Tezli), 1998

Research Areas

algorithms, Software, Energy

Academic Titles / Tasks

Professor, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2019 - Continues

Associate Professor, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2012 - 2019

Associate Professor, Gazi University, Teknik Eğitim Fakültesi, Elektrik Eğitimi, 2011 - 2012

Assistant Professor, Gazi University, Teknik Eğitim Fakültesi, Elektrik Eğitimi, 2007 - 2011

Academic and Administrative Experience

Gazi University, Teknoloji Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2014 - 2015

Gazi University, Teknoloji Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2012 - 2013

Advising Theses

- YILMAZ E. N., Security Threats In Internet Of Things Applications: Camera Based Attacks, Postgraduate, M.ZEYBEK(Student), 2021
- YILMAZ E. N., DOĞRU İ. A., Insider Effect On Cyber Security Of Critical Infrastructures, Postgraduate, U.ARAS(Student), 2020
- YILMAZ E. N., Development Of Cyber Security Instruments With Log Management, Postgraduate, E.GÜL(Student), 2019
- YILMAZ E. N., Comfort Factor At Smart Buildings And Its Optimization, Postgraduate, N.IRAK(Student), 2019
- YILMAZ E. N., Design Of A Flywheel Supported Hybrid System Model In Electric Vehicles, Postgraduate, T.İSKENDER(Student), 2019
- YILMAZ E. N., PLC ile kontrol edilen mikro tip akıllı şebeke sistemlerde bilgi güvenliğinin sağlanması, Doctorate, S.GÖNEN(Student), 2018
- YILMAZ E. N., Providing Information Security In Micro Type Smart Grid Systems Controlled By Plc, Doctorate, S.Gönen(Student), 2018
- YILMAZ E. N., Ozone Generator Design And Optionalization Of Ozoning Conditions, Doctorate, D.SEVİM(Student), 2017
- YILMAZ E. N., Comparison Of Expert And Classical Systems Of Power Factor Control With Synchronous Motor, Postgraduate, O.AYDIN(Student), 2015
- YILMAZ E. N., Internet based monitoring and control of a wind turbine VIA PLC, Postgraduate, Y.DEBBAĞ(Student), 2014
- YILMAZ E. N., PLC based scada system automation for micro type hydroelectric power plants and implements of frequency and voltage regulation with RTU/PLC, Postgraduate, M.KARAYEL(Student), 2013
- YILMAZ E. N., Using active learning in motor control, Postgraduate, O.BATTAL(Student), 2011
- YILMAZ E. N., Görüntü işleme yardımı ile kimlik tespiti, Postgraduate, C.MANAV(Student), 2010
- YILMAZ E. N., COMPARISON OF DISTANCE LEARNING AND FORMAL LEARNING IN VOCATIONAL AND TECHNICAL EDUCATION, Postgraduate, F.ÖZSOY(Student), 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Machine learning-based identification of cybersecurity threats affecting autonomous vehicle systems**
Onur F., GÖNEN S., BARIŞKAN M. A., Kubat C., Tunay M., YILMAZ E. N.
Computers and Industrial Engineering, vol.190, 2024 (SCI-Expanded)
- II. **Real-Time Cyber Attack Detection Over HoneyPi Using Machine Learning**
ALHAN B., GONEN S., KARACAYILMAZ G., BARISKAN M. A., YILMAZ E. N.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.29, no.4, pp.1394-1401, 2022 (SCI-Expanded)
- III. **False data injection attacks and the insider threat in smart systems**
Gonen S., SAYAN H. H., YILMAZ E. N., Ustunsoy F., Karacayilmaz G.
COMPUTERS & SECURITY, vol.97, 2020 (SCI-Expanded)
- IV. **Design and Implementation of Fuel Cell and Photovoltaic Panel-Supported Ozonation System**
YILMAZ E. N., Sevim D.
OZONE-SCIENCE & ENGINEERING, vol.41, no.2, pp.186-196, 2019 (SCI-Expanded)
- V. **Design of an off-grid model of micro-smart grid connection of an asynchronous motor fed with LUO converter**
YILMAZ E. N., AKSÖZ A., SAYGIN A.
ELECTRICAL ENGINEERING, vol.100, no.4, pp.2659-2666, 2018 (SCI-Expanded)
- VI. **Design and implementation of real-time monitoring and control system supported with IOS/Android application for industrial furnaces**
YILMAZ C., YILMAZ E. N., Isik M. F., Usalan M. A. S., SÖNMEZ Y., ÖZDEMİR V.
IEEJ TRANSACTIONS ON ELECTRICAL AND ELECTRONIC ENGINEERING, vol.13, no.9, pp.1236-1244, 2018 (SCI-Expanded)
- VII. **Attack detection/prevention system against cyber attack in industrial control systems**
Yılmaz E. N., Gonen S.

- COMPUTERS & SECURITY, vol.77, pp.94-105, 2018 (SCI-Expanded)
- VIII. **Design and Implementation of Real Time Monitoring and Control System for Distributed Robotic Systems Supported with IOS/Android Application**
IŞIK M. F., HABOĞLU M. R., YILMAZ C., YILMAZ E. N.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.25, no.2, pp.423-428, 2018 (SCI-Expanded)
- IX. **Precision Irrigation System (PIS) Using Sensor Network Technology Integrated with IOS/Android Application**
IŞIK M. F., SÖNMEZ Y., YILMAZ C., ÖZDEMİR V., YILMAZ E. N.
APPLIED SCIENCES-BASEL, vol.7, no.9, 2017 (SCI-Expanded)
- X. **MICRO CONTROLLER AND COMPUTER BASED REACTIVE POWER COMPENSATION**
YILMAZ E. N., Aydın O.
TEHNICKI VJESNIK-TECHNICAL GAZETTE, vol.24, no.2, pp.363-370, 2017 (SCI-Expanded)
- XI. **Education Set Design for Smart Home Applications**
YILMAZ E. N.
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.19, no.4, pp.631-638, 2011 (SCI-Expanded)
- XII. **Simulation of the parallel connection of electrical power stations**
Colak I., YILMAZ E. N.
INTERNATIONAL JOURNAL OF ELECTRICAL ENGINEERING EDUCATION, vol.36, no.4, pp.332-341, 1999 (SCI-Expanded)

Articles Published in Other Journals

- I. **Artificial Intelligence-Supported Detection Systems on Embedded Devices**
Almaçık F., Yıldırım F., GÖNEN S., Alhan B., BARIŞKAN M. A., SAYAN H. H., YILMAZ E. N.
El-Cezeri Journal of Science and Engineering, vol.11, no.1, pp.109-119, 2024 (Scopus)
- II. **A Novel Approach to Prevention of Hello Flood Attack in IoT Using Machine Learning Algorithm**
GÖNEN S., BARIŞKAN M. A., KARACAYILMAZ G., Alhan B., YILMAZ E. N., ARTUNER H., SİNDİREN E.
El-Cezeri Journal of Science and Engineering, vol.9, no.4, pp.1529-1541, 2022 (Scopus)
- III. **Gender Detection Via Voice Using Artificial Intelligence Algorithms**
GÖNEN S., BARIŞKAN M. A., Karacayılmaz G., Alhan B., YILMAZ E. N., ARTUNER H.
Gazi Mühendislik Bilimleri Dergisi, vol.8, no.3, pp.567-575, 2022 (Peer-Reviewed Journal)
- IV. **A novel approach to continuous CVE analysis on enterprise operating systems for system vulnerability assessment**
Kocaman Y., Gönen S., Barışkan M. A., Karacayılmaz G., YILMAZ E. N.
International Journal of Information Technology (Singapore), vol.14, no.3, pp.1433-1443, 2022 (Scopus)
- V. **A New Approach in Cyber Security of Industrial Control Systems: Li-Fi**
Gönen S., Sayan H. H., Karacayılmaz G., Sindiren E., Üstünsoy F., Artuner H., Yılmaz E. N., Işık M. F.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.25, no.2, pp.895-902, 2022 (Peer-Reviewed Journal)
- VI. **Password Attack Analysis Over Honeypot Using Machine Learning Password Attack Analysis**
Taşçı H. B., GÖNEN S., BARIŞKAN M. A., KARACAYILMAZ G., Alhan B., YILMAZ E. N.
Turkish Journal of Mathematics and Computer Science, vol.13, no.2, pp.388-402, 2021 (Peer-Reviewed Journal)
- VII. **Endüstri 4.0\ u2019ın Gelişim Sürecinde Unutulan Bileşen: Siber Güvenlik**
GÖNEN S., YILMAZ E. N., Şanoğlu S., Karacayılmaz G., ÖZBİRİNCİ Ö.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.9, no.4, pp.1142-1158, 2021 (Peer-Reviewed Journal)
- VIII. **Autonomous Operation of Microgrid and Minimization of Fault in Case of Failure in High-Voltage Lines**
Ustunsoy F., Yıldız S., Yılmaz E. N., Sayan H. H., Burunkaya M., Yılmaz C., Bulut M.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.23, pp.1371-1377, 2020 (ESCI)
- IX. **RPL Tabanlı Atakların Ağ Adli Bilişimi**
KARACAYILMAZ G., GÖNEN S., ARTUNER H., YILMAZ E. N., SAYAN H. H., SİNDİREN E.

Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.8, no.4, pp.2366-2376, 2020 (Peer-Reviewed Journal)

- X. **Legal Regulation of Reactive Power Compensation in Energy Efficiency**
Akkaya Oy S., YILMAZ E. N., Aydın O.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, no.3, pp.677-685, 2020 (ESCI)
- XI. **NESNELERİN İNTERNETİ: RİSK TEMELLİ YAKLAŞIM**
ZEYBEK M., YILMAZ E. N.
Denetim, vol.0, no.19, pp.73-88, 2019 (Peer-Reviewed Journal)
- XII. **Bilişim Alanında İşlenen Suçlar Üzerine Bir İnceleme**
GÖNEN S., ULUS H. İ., YILMAZ E. N.
Bilişim Teknolojileri Dergisi, vol.8, no.3, pp.229-236, 2016 (Peer-Reviewed Journal)
- XIII. **PLC Based SCADA for Micro Hydroelectric Power Plants**
YILMAZ E. N., KARAYEL M.
International Journal of Electrical Energy, vol.4, no.1, pp.67-71, 2016 (Peer-Reviewed Journal)
- XIV. **Using Active Learning in Motor Control and Matlab Simulation**
YILMAZ E. N., BATTAL O.
Journal of Automation and Control Engineering, no.4, pp.299-303, 2015 (Peer-Reviewed Journal)
- XV. **An Easy Calculation Method for the Electricity Production by Solar Panels and its Applicability in Gaziantep**
YILMAZ E. N., SAYGIN A., Besnili M.
Journal of Applied Sciences, vol.9, no.21, pp.3927-3931, 2009 (Peer-Reviewed Journal)
- XVI. **Matlab Kullanarak Basit Bir Güvenlik Sistemi Geliştirilmesi**
YILMAZ E. N., Cihan M.
Politeknik Dergisi, vol.12, no.2, pp.67-72, 2009 (Peer-Reviewed Journal)
- XVII. **Design and Application of Internet Based Solar Pump and Monitoring System**
DURSUN M., YILMAZ E. N.
Journal of Applied Sciences, vol.8, no.16, pp.2859-2866, 2008 (Scopus)
- XVIII. **Güç Transformatörü Uç Empedans Eğrisinin Yapay Sinir Ağları Yardımıyla Kestirimi**
KOŞALAY İ., YILMAZ E. N.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.7, no.3, pp.185-189, 2004 (Peer-Reviewed Journal)
- XIX. **Anahtarlamanın Endüstriyel Bir Tesisteki Etkilerinin İncelenmesi**
KOŞALAY İ., YILMAZ E. N.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.3, no.1, pp.31-38, 2000 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Microgrid Design Optimization and Control with Artificial Intelligence Algorithms for a Public Institution**
ÜSTÜNŞOY F., GÖNEN S., SAYAN H. H., YILMAZ E. N., KARACAYILMAZ G.
in: Lecture Notes on Data Engineering and Communications Technologies Volume 76, Jude Hemanth, Tuncay Yiğit, Bogdan Patrut, Anastassia Angelopoulou, Editor, Springer, Cham, pp.418-428, 2020
- II. **ICS Cyber Attack Analysis and a New Diagnosis Approach**
YILMAZ E. N., SAYAN H. H., ÜSTÜNŞOY F., GÖNEN S., SİNDİREN E., KARACAYILMAZ G.
in: Lecture Notes on Data Engineering and Communications Technologies Volume 43, Hemanth, D. Jude Köse, Utku, Editor, Springer Nature Switzerland, Cham, pp.127-141, 2019
- III. **Analysis of MODBUS Protocol Vulnerabilities with ModbusPal Simulator**
YILMAZ E. N., DOĞRU İ. A., ARAS U.
in: CURRENT ACADEMIC STUDIES IN ENGINEERING SCIENCES-2018, Prof. Dr. Serdar SALMAN, Doç. Dr. Duygu KAVAK Dr. Ali KILIÇER, Editor, IVPE, Cetinje, pp.184-202, 2018
- IV. **Doğru Akım Devreleri ve Analizi**
COŞKUN İ., YILMAZ E. N.

Refereed Congress / Symposium Publications in Proceedings

- I. **Cyber Attack Detection with Encrypted Network Connection Analysis**
GÖNEN S., Karacayılmaz G., ARTUNER H., BARIŞKAN M. A., YILMAZ E. N.
12th International Symposium on Intelligent Manufacturing and Service Systems, IMSS 2023, İstanbul, Turkey, 26 - 28 May 2023, pp.622-629
- II. **Detection of Cyber Attacks Targeting Autonomous Vehicles Using Machine Learning**
Onur F., BARIŞKAN M. A., GÖNEN S., Kubat C., Tunay M., YILMAZ E. N.
12th International Symposium on Intelligent Manufacturing and Service Systems, IMSS 2023, İstanbul, Turkey, 26 - 28 May 2023, pp.439-449
- III. **MESLEKİ VE TEKNİK EĞİTİMDE UYGULAMALI DERSLERDE UZAKTAN EĞİTİM**
Ürer H., YILMAZ E. N.
Davamlı inkişaf strategiyası: qlobal trendlər, milli təcübələr və yeni hədəflər, Mingəcəvir, Azerbaijan, 08 December 2023
- IV. **A Novel Approach Detection for False Data Injection, and Man in the Middle Attacks in IoT and IIoT**
GÖNEN S., BARIŞKAN M. A., Kaplan D. Y., YILMAZ E. N., ÇETİN A.
2023 IEEE PES Generation, Transmission and Distribution International Conference and Exposition, GTD 2023, İstanbul, Turkey, 22 - 25 May 2023, pp.278-282
- V. **Obtaining Cyber Threat Intelligence Data From Twitter With Deep Learning Methods**
YILMAZ E. N., TEKİN U.
5th International Symposium on Multidisciplinary Studies and Innovative, Ankara, Turkey, 21 - 23 October 2021
- VI. **A Study on Security Awareness in Mobile Devices**
ZEYBEK M., YILMAZ E. N., DOĞRU İ. A.
2019 1st International Informatics and Software Engineering Conference (UBMYK), Ankara, Turkey, 6 - 07 November 2019
- VII. **Importance of Power Flow and Load Analysis in Pre-Installation Power Systems**
CENGİZ E., YILMAZ C., YILMAZ E. N., KAHRAMAN H. T.
2019 3rd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Ankara, Turkey, Turkey, 11 - 13 October 2019
- VIII. **ICS Cyber Attack Analysis and a New Diagnosis Approach**
YILMAZ E. N., SAYAN H. H., ÜSTÜNŞOY F., GÖNEN S., SİNDİREN E., KARACAYILMAZ G.
International Conference on Artificial Intelligence and Applied Mathematics in Engineering 2019, 20 April - 22 September 2019, pp.127-141
- IX. **Akıllı Binalarda Konfor Faktörü ve Optimizasyonu**
IRAK N., YILMAZ E. N.
International Congress on Human Computer Interaction, Optimization and Robotic Applications (HORA 2019), 5 - 07 July 2019
- X. **LOG MANAGEMENT WITH OPEN SOURCE TOOLS**
GÜL E., YILMAZ E. N.
3rd International Symposium on Innovative Approaches in Engineering and Natural Sciences (ISAS 2019), 19 - 21 April 2019
- XI. **SİNOP BÖLGESİ İÇİN COĞRAFİ BİLGİ SİSTEMLERİ DESTEKLİ ENERJİ GÜZERGAHI SEÇİM UYGULAMASI**
YILMAZ E. N., AKTAŞ A. K.
6. ULUSLARARASI MATEMATİK, MÜHENDİSLİK VE FEN VE SAĞLIK BİLİMLERİ KONGRESİ, Adana, Turkey, 8 - 10 March 2019, pp.435-441
- XII. **Cyber Security Analysis of DoS and MitM Attacks Against PLCs Used in Smart Grids**
YILMAZ E. N., SAYAN H. H., Ustunsoy F., Gonen S., Karacayılmaz G.
7th International Istanbul Smart Grids and Cities Congress and Fair (ICSG), İstanbul, Turkey, 25 - 26 April 2019,

pp.36-40

- XIII. **Pasif Algılayıcıların Patlayıcı İçerikli Malzeme Tespitinde Kullanımı**
Işık M. F., Yılmaz C., Yılmaz E. N., Suiçmez Ç.
V. Uluslararası Multidisipliner Çalışmaları Sempozyumu (ISMS), Ankara, Turkey, 16 - 17 November 2018, pp.425
- XIV. **Akıllı Şebeke Eğitiminde Benzetim Modellerinin Önemi Ve Bir Örnek Uygulama**
Yılmaz E. N., Yılmaz C., Suiçmez Ç.
V. Uluslararası Multidisipliner Çalışmaları Sempozyumu (ISMS), Ankara, Turkey, 16 - 17 November 2018, pp.242
- XV. **Cyber Security in Industrial Control Systems: Analysis of DoS Attacks against PLCs and the Insider Effect**
Yılmaz E. N., CİYLAN B., Gonen S., Sindiren E., Karacayılmaz G.
6th International Istanbul Smart Grids and Cities Congress and Fair (ICSG), İstanbul, Turkey, 25 - 26 April 2018, pp.81-85
- XVI. **Data Storage in Smart Grid Systems**
YILMAZ E. N., POLAT H., OYUCU S., AKSÖZ A., SAYGIN A.
6th International Istanbul Smart Grids and Cities Congress and Fair (ICSG), İstanbul, Turkey, 25 - 26 April 2018, pp.110-113
- XVII. **Batarya ve Flywheel enerji depolama sisteminden oluşan Hibrit bir Elektrikli Aracın Benzetim Modeli**
İSKENDER T., YILMAZ E. N., KÜÇÜK B.
IV. International Multidisciplinary Congress of Eurasia (IMCOFE2017), Roma, Italy, 23 - 25 August 2017
- XVIII. **4650 kVA Kurulu Güce Sahip Bir Enerji Dağıtım Sisteminin ETAP Programı ile Analizi**
YILMAZ E. N., gönen s.
1. ELEKTRİK ENERJİSİ DÖNÜŞÜMÜ KONGRESİ-ELAZIĞ, Turkey, 21 - 22 September 2017
- XIX. **Smart Grid Integration of Micro Hybrid Power System Using 6-Switched 3-Level Inverter**
Kerem A., AKSÖZ A., SAYGIN A., YILMAZ E. N.
5th International Istanbul Smart Grid and Cities Congress and Fair (ICSG), İstanbul, Turkey, 19 - 21 April 2017, pp.161-165
- XX. **Energy Consumption Monitoring with Smart Lamp Socket for Smart Grid via M2M Platform**
OYUCU S., POLAT H., AKSÖZ A., SAYGIN A., YILMAZ E. N.
5th International Istanbul Smart Grid and Cities Congress and Fair (ICSG), İstanbul, Turkey, 19 - 21 April 2017, pp.80-84
- XXI. **Design, Analysis and Optimization of 1350 MW Natural Gas Thermal Power Plant**
YILMAZ E. N., Bayunes B.
5th International Istanbul Smart Grid and Cities Congress and Fair (ICSG), İstanbul, Turkey, 19 - 21 April 2017, pp.140-144
- XXII. **PV PANEL SUPPORT REFRIGERATED VEHICLE ENERGY SYSTEM DESIGN**
SEVİM D., YILMAZ E. N., BUDAK C.
INESEC2016, 1 - 02 December 2016
- XXIII. **Endüstriyel Kontrol Sistemlerinde Siber Güvenlik PLC Güvenliği Üzerine Bir İnceleme**
YILMAZ E. N., GÖNEN S.
ISCTurkey 2016, 25 - 26 October 2016
- XXIV. **A Different Model of WECS Connected to Smart Grid Through Matrix Converter**
SAYGIN A., AKSÖZ A., YILMAZ E. N.
4th International Istanbul Smart Grid Congress and Fair (ICSG), İstanbul, Turkey, 20 - 21 April 2016, pp.117-121
- XXV. **PLC Based SCADA for Micro Hydroelectric Power Plants**
YILMAZ E. N., KARAYEL M.
2nd International Conference on Electrical and Electronics Engineering (ICEEE 2015), 28 - 29 April 2015
- XXVI. **Internet Based Monitoring and Control of a Wind Turbine via PLC**
Debbag Y., YILMAZ E. N.
3rd International Istanbul Smart Grid Congress and Fair (ICSG), İstanbul, Turkey, 29 - 30 April 2015
- XXVII. **Gazi Üniversitesi Uzaktan Eğitim Programı**
Elmas Ç., Bay Ö. F., Yılmaz E. N., Karataş S.

Supported Projects

YILMAZ E. N., Project Supported by Higher Education Institutions, BİR RÜZGAR TÜRBİNİN İNTERNET TABANLI OLARAK PLC İLE İZLENMESİ VE KONTROL EDİLMESİ, 2011 - 2014

YILMAZ E. N., Project Supported by Higher Education Institutions, MİKROTİP HİDROELEKTRİK SANTRALLER İÇİN PLC TABANLI SCADA SİSTEM OTOMASYONU VE RTU/PLC İLE FREKANS VE GERİLİM REGÜLASYONUNUN GERÇEKLEŞTİRİLMESİ, 2011 - 2013

Metrics

Publication: 62

Citation (WoS): 141

Citation (Scopus): 231

H-Index (WoS): 6

H-Index (Scopus): 6

Non Academic Experience

Mingachevir State University

Şanlıurfa Birecik HNS Endüstri Meslek Lisesi