



Personal Information

Office Phone: [+90 312 582 3330](tel:+903125823330)

Email: korhankayisli@gazi.edu.tr

Web: <https://avesis.gazi.edu.tr/korhankayisli>

Address: korhankayisli@gazi.edu.tr



International Researcher IDs

ScholarID: JJEzpRYAAAAJ

ORCID: 0000-0001-8456-1478

Publons / Web Of Science ResearcherID: AAP-7790-2021

ScopusID: 36543848200

Education Information

Doctorate, Firat University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 2004 - 2012

Postgraduate, Firat University, Institute Of Science, Elektronik Bilgisayar Eğitimi, Turkey 2001 - 2004

Undergraduate, Sakarya University, Faculty Of Technical Education, Department Of Electronics And Computer Education, Turkey 1997 - 2001

Biography

Dr. Korhan Kayışli received a BSc degree in electronics education from Sakarya University, Sakarya, Turkey, in 2001, and an MSc degree in Electronics and Computer Science from Firat University, Elazığ, Turkey, in 2004. He received PhD degree at the area of power electronics in Electric and Electronics Engineering at Firat University, Elazığ, Turkey, in 2012. He worked as a research assistant between 2002 and 2012. He has worked in Firat University, Bitlis Eren University, Gelisim University, Nisantasi University, respectively. He is currently an associate professor in the Department of Electrical Electronics Engineering, Engineering Faculty, Gazi University, Ankara, Turkey. He is an IEEE Senior Member. Also, he is the co-editor of International Journal of Renewable Energy Research and International Journal of Engineering Science and Application. He also served as reviewer to many high ranked scientific journals. His fields of interest are power electronics, converter circuits, power factor correction, robust control, and educational technologies. He has published journal and conference papers on these areas. Additionally, he has worked as researcher in two EU mobility projects and other some projects.

Dissertations

Doctorate, Birim güç faktörlü dayanıklı dönüştürücü devresinin tasarlanması ve gerçekleştirilmesi, Firat University, Institute Of Science, Elektrik Elektronik Mühendisliği, 2012

Postgraduate, Asenkron motorun kayma mod algılayıcısız hız kontrolü, Firat University, Institute Of Science, Elektronik, 2004

Research Areas

Robotics and Mechatronics Systems, Artificial Intelligence, Computer Learning and Pattern Recognition, Renewable energy, Power Electronics, Power Converters, Power Quality, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 2023 - Continues

Assistant Professor, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 2021 - 2023

Assistant Professor, Nisantasi University, Faculty Of Engineering-Architecture, Department Of Electrical And Electronic Engineering, 2016 - 2021

Assistant Professor, Istanbul Gelisim University, Faculty Of Engineering-Architecture, Department Of Computer Engineering, 2013 - 2016

Assistant Professor, Bitlis Eren University, Faculty Of Engineering-Architecture, Department Of Computer Engineering, 2012 - 2013

Academic and Administrative Experience

Deputy Head of Department, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 2024 - Continues

Deputy Director of Continuing Education Center, Gazi University, Sürekli Eğitim Uygulama Ve Araştırma Merkezi, 2022 - 2024

Head of Department, Nisantasi University, Faculty Of Engineering-Architecture, Department Of Mechatronics Engineering, 2016 - 2021

Vice Dean, Nisantasi University, Faculty Of Engineering-Architecture, 2016 - 2020

Head of Department, Istanbul Gelisim University, Faculty Of Engineering-Architecture, Department Of Mechatronics Engineering, 2013 - 2016

Vice Dean, Istanbul Gelisim University, Faculty Of Engineering-Architecture, 2013 - 2016

Assistant Director of the Institute, Istanbul Gelisim University, Institute Of Science, 2013 - 2014

Head of Department, Bitlis Eren University, Faculty Of Engineering-Architecture, Department Of Industrial Engineering, 2012 - 2013

Courses

Postgraduate

DYNAMIC BEHAVIOR AND CONTROL OF AC DRIVES, Postgraduate, 2023 - 2024, 2022 - 2023

POWER ELECTRONIC APPLICATIONS IN SYSTEMS, Postgraduate, 2024 - 2025, 2023 - 2024, 2021 - 2022

MULTIPOINT POWER CONVERTERS IN SMART GRIDS, Postgraduate, 2021 - 2022

GÜÇ ELEKTRONİĞİNİN GÜÇ SİSTEMİ UYGULAMALARI, Postgraduate, 2022 - 2023, 2021 - 2022

Undergraduate

EE Engineering Design I, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023

EE Engineering Design II, Undergraduate, 2024 - 2025, 2022 - 2023, 2021 - 2022

Control Systems I, Undergraduate, 2023 - 2024, 2021 - 2022

Electrical Motors and Drives, Undergraduate, 2023 - 2024

Industrial Control, Undergraduate, 2024 - 2025, 2023 - 2024, 2021 - 2022

Discrete Time Control Systems, Undergraduate, 2021 - 2022

Supervised Theses

Kayıslı K., CONTROL AND DESIGN OF MICROCONTROLLER BASED CAPACITOR CHARGING POWER SUPPLY USING PEAK CURRENT CONTROL MANAGEMENT, Postgraduate, F,DEMİRBAŞ(Student), 2025

Kayışlı K., ELEKTRİK GÜÇ SİSTEMİ KARARLILIĞININ İYİLEŞTİRİLMESİNDE YENİLENEBİLİR ENERJİ KULLANIMIN ETKİSİ, Postgraduate, A.HUSSEIN(Student), 2025
Kayışlı K., DEVELOPMENT AND CONTROL OF GaN-BASED PHASE SHIFTED FULL BRIDGE CONVERTER FOR MILITARY APPLICATIONS, Postgraduate, S.BAYRAM(Student), 2024
Kayışlı K., A high efficient and robust MPPT control of a hybrid, Postgraduate, R.Zafer(Student), 2023
Kayışlı K., DESIGN AND IMPLEMENTATION OF A DC CURRENT SENSOR WITHDC TRANSFORMER, Postgraduate, M.ÇALAR(Student), 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **PV-MPPT Lab: A GUI-Based Education Tool for MPPT Techniques**
Kayışlı K., Caglayan R. Z., Colak I.
IEEE TRANSACTIONS ON EDUCATION, vol.67, no.3, pp.453-461, 2024 (SCI-Expanded)
- II. **Fuzzy logic-based Energy Management System (EMS) of hybrid power sources: Battery/Super capacitor for electric scooter supply**
Boumediene S., Nasri A., Hamza T., Hicham C., KAYIŞLI K., Garg H.
JOURNAL OF ENGINEERING RESEARCH, vol.12, no.1, pp.148-159, 2024 (SCI-Expanded)
- III. **Output Regulation-Based Optimal Control System for Maximum Power Extraction of a Machine-Side Power Converter in Variable-Speed WECS**
Sarsembayev B., Zhakiyev N., Kushekkaliyev A., KAYIŞLI K., Do T. D.
IEEE ACCESS, vol.12, pp.8422-8431, 2024 (SCI-Expanded)
- IV. **Optimization of Sliding Mode Control for Doubly Fed Induction Generator Systems Using Particle Swarm and Grey Wolf Algorithms**
Ibrahim B., Abdelkader H., Hartani M. A., KAYIŞLI K.
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.52, no.10, pp.1782-1795, 2024 (SCI-Expanded)
- V. **Strain Energy Prediction of Single Wall Carbon Nanotubes Using General Regression Neural Network and Adaptive Neuro - Fuzzy Inference System**
Eyecioglu O., KAYIŞLI K., Beken M.
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.52, no.8, pp.1437-1447, 2024 (SCI-Expanded)
- VI. **Design of sustainable multi-source power systems using lithium batteries**
Layadi T. M., Champenois G., Mostefai M., Colak I., KAYIŞLI K.
Journal of Energy Storage, vol.60, 2023 (SCI-Expanded)
- VII. **Super twisting sliding mode-type 2 fuzzy MPPT control of solar PV system with parameter optimization under variable irradiance conditions**
Kayışlı K.
Ain Shams Engineering Journal, vol.14, no.1, 2023 (SCI-Expanded)
- VIII. **Advanced Control of Three-Phase PWM Rectifier Using Interval Type-2 Fuzzy Neural Network Optimized by Modified Golden Sine Algorithm**
Acikgoz H., Coteli R., Tanyildizi E., Dandil B., KAYIŞLI K.
Electric Power Components and Systems, vol.51, no.10, pp.933-948, 2023 (SCI-Expanded)
- IX. **An Enhanced Hybrid Rhino Herd-PSO Optimizer for Optimal Technical and Economic Operation of Power Systems Considering Environmental Concerns**
Taleb N., Bentouati B., Chettih S., Abdelkader H., KAYIŞLI K.
Electric Power Components and Systems, vol.51, no.18, pp.2193-2209, 2023 (SCI-Expanded)
- X. **Distribution Locational Marginal Price Based Transactive Energy Management in Distribution Systems with Smart Prosumers—A Multi-Agent Approach**
Amanbek Y., Kalakova A., Zhakiyeva S., Kayisli K., Zhakiyev N., Friedrich D.
Energies, vol.15, no.7, pp.1-18, 2022 (SCI-Expanded)
- XI. **A DIRECT ADAPTIVE SLIDING MODE HIGH VOLTAGE GAIN PEAK POWER TRACKER FOR THERMOELECTRIC APPLICATIONS**

BELKAID A., ÇOLAK İ., KAYIŞLI K.

Revue Roumaine Des Sciences Techniques-Serie Electrotechnique Et Energetique, vol.66, no.2, pp.131-136, 2021 (SCI-Expanded)

- XII. **A Novel Approach of Perturb and Observe Technique Adapted to Rapid Change of Environmental Conditions and Load**
Belkaid A., Colak I., Kayisli K.
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.48, pp.375-387, 2020 (SCI-Expanded)
- XIII. **Backstepping control of a separately excited DC motor**
Harrouz A., Becheri H., Colak I., Kayisli K.
ELECTRICAL ENGINEERING, vol.100, no.3, pp.1393-1403, 2018 (SCI-Expanded)
- XIV. **Implementation of a modified P&O-MPPT algorithm adapted for varying solar radiation conditions**
Belkaid A., Colak I., Kayisli K.
ELECTRICAL ENGINEERING, vol.99, no.3, pp.839-846, 2017 (SCI-Expanded)
- XV. **Closure to "Prediction of Discharge Capacity over Two-Cycle Labyrinth Side Weir Using ANFIS" by M. Cihan Aydin and Korhan Kayisli**
Aydin M. C., Kayisli K.
JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING, vol.143, no.7, 2017 (SCI-Expanded)
- XVI. **A Novel Power Factor Correction System Based on Sliding Mode Fuzzy Control**
Kayisli K., Tuncer S., Poyraz M.
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.45, no.4, pp.430-441, 2017 (SCI-Expanded)
- XVII. **Prediction of Discharge Capacity over Two-Cycle Labyrinth Side Weir Using ANFIS**
Aydin M. C., Kayisli K.
JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING, vol.142, no.5, 2016 (SCI-Expanded)
- XVIII. **PMSM Drive Fed by Sliding Mode Controlled PFC Boost Converter**
Aydogmus O., Deniz E., Kayisli K.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.39, no.6, pp.4765-4773, 2014 (SCI-Expanded)
- XIX. **An educational tool for fundamental DC-DC converter circuits and active power factor correction applications**
Kayisli K., Tuncer S., Poyraz M.
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.21, no.1, pp.113-134, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Energy Management based on Supertwisting Sliding Mode in the Standalone Photovoltaic Power System with Battery Backup**
ÇÖTELİ R., ÇAĞLAYAN R. Z., KAYIŞLI K.
International Journal of Smart Grid, vol.8, no.4, pp.191-198, 2024 (Peer-Reviewed Journal)
- II. **Predicting LAN switch failures: An integrated approach with DES and machine learning techniques (RF/LR/DT/SVM)**
Myrzatay A., Rzayeva L., Bandini S., Shayea I. A. M., Saoud B., Çolak I., KAYIŞLI K.
RESULTS IN ENGINEERING, vol.23, 2024 (ESCI)
- III. **Smart Power Conditioning Unit Utilizing Enhanced Inc-Con MPPT for Photovoltaic Power Plants**
BELKAID A., KAYIŞLI K., ÇOLAK İ., HADJI S., GUENOUNOU O.
International Journal of Smart grid, vol.8, no.1, pp.41-45, 2024 (Peer-Reviewed Journal)
- IV. **Pioneering Battery-Supercapacitor Hybrid Energy Management for E-Scooters for Sustainable Urban Transportation**
SAIED B., Nasri A., Tedjini H., Hicham C., KAYIŞLI K.
PRZEGLAD ELEKTROTECHNICZNY, vol.2024, no.4, pp.113-117, 2024 (ESCI)
- V. **DEEP RECURRENT NEURAL NETWORKS IN ENERGY DEMAND FORECASTING: A CASE STUDY OF KAZAKHSTANS ELECTRICAL CONSUMPTION**

Kabdygali S., Omirgaliyev R., Tursynbayev T., KAYIŞLI K., Zhakiyev N.

SEXES, vol.16, pp.16-29, 2023 (Peer-Reviewed Journal)

- VI. **A Comparative Analysis of P&O, IC and Supertwisting Sliding Mode based MPPT methods for PV and Fuel Cell sourced Hybrid System**
Caglayan R. Z., KAYIŞLI K., Roscia M., Belkaid A., Nasri A.
International Journal of Renewable Energy Research, vol.13, no.3, pp.1431-1442, 2023 (ESCI)
- VII. **Twisting Sliding Mode Control based Maximum Power Point Tracking**
KAYIŞLI K., ÇAĞLAYAN R. Z.
Balkan Journal of Electrical and Computer Engineering, vol.10, no.4, pp.356-362, 2022 (Peer-Reviewed Journal)
- VIII. **A Review of Hybrid Renewable Energy Systems and MPPT Methods**
ÇAĞLAYAN R. Z., KAYIŞLI K., Zhakiyev N., HARROUZ A., ÇOLAK İ.
International Journal of Smart Grid - ijSmartGrid, vol.6, no.3, pp.72-82, 2022 (Peer-Reviewed Journal)
- IX. **Blockchain-Based Decentralized Peer-to-Peer Negawatt Trading in Demand-Side Flexibility Driven Transactive Energy System**
Zhanbolatov A., Zhakiyeva S., Zhakiyev N., KAYIŞLI K.
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.12, no.3, pp.1475-1483, 2022 (ESCI)
- X. **Power Stabilization with STATCOM on DFIG Based Wind Farm for Renewable Energy**
HARROUZ A., KAYIŞLI K., Houcien B., ÇOLAK İ.
Algerian Journal of Renewable Energy and Sustainable Development, vol.4, no.1, pp.84-93, 2022 (Peer-Reviewed Journal)
- XI. **A Novel Method of Electric Scooter Torque Estimation Using the Space Vector Modulation Control**
Hicham C., Nasri A., KAYIŞLI K.
International Journal of Renewable Energy Development, vol.10, no.2, pp.355-364, 2021 (ESCI)
- XII. **NON-LINEAR BACKSTEPPING SPEED CONTROL FOR ASIAN ELECTRIC SCOOTER USES**
Hicham C., Nasri A., KAYIŞLI K.
JOURNAL OF FUNDAMENTAL AND APPLIED SCIENCES, vol.13, no.1, pp.400-423, 2021 (Peer-Reviewed Journal)
- XIII. **Fuzzy Logic Speed Control for Three-Wheel Electric Scooter**
Hicham C., Nasri A., KAYIŞLI K.
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, vol.9, no.3, pp.1443-1452, 2019 (Scopus)
- XIV. **Design and Implementation of a Cuk Converter Controlled by a Direct Duty Cycle INC-MPPT in PV Battery System**
BELKAID A., ÇOLAK İ., KAYIŞLI K., BAYINDIR R.
International Journal of Smart Grid, vol.3, no.1, pp.18-24, 2019 (Peer-Reviewed Journal)
- XV. **Speed control of three-wheel electric scooter with fuzzy logic control**
Hicham C., Nasri A., KAYIŞLI K.
International Journal of Renewable Energy Research, vol.9, no.3, pp.1443-1450, 2019 (ESCI)
- XVI. **Performance comparison of different maximum power point trackers for photovoltaic system under fast varying of environmental conditions**
BELKAID A., ÇOLAK İ., KAYIŞLI K.
Revue des Energies Renouvelables, vol.21, no.4, pp.601-621, 2018 (Peer-Reviewed Journal)
- XVII. **Modeling of a Permanent Magnet Synchronous Generator in a Power Wind Generation System with an Electrochemical Energy Storage**
BELKAID A., ÇOLAK İ., KAYIŞLI K., BAYINDIR R.
International Journal of Smart Grid, vol.2, no.4, pp.197-202, 2018 (Peer-Reviewed Journal)
- XVIII. **3 Serbestlik Dereceli Bir Robot Kolun Bulanık Mantık ve PID ile Kontrolü**
KAYIŞLI K., UĞUR M.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.5, no.4, pp.223-234, 2017 (Peer-Reviewed Journal)
- XIX. **Implementation of a Humanoid Robotic Hand**
Tezel C., KAYIŞLI K., Günay O.
International Journal of Engineering Science and Application, vol.1, no.4, pp.137-141, 2017 (Peer-Reviewed Journal)

Journal)

- XX. **Sliding Mode Control of Vehicle Suspension System under Different Road Conditions**
KAYIŞLI K., KARAMAN V.
International Journal of Engineering Science and Application, vol.1, no.2, pp.72-77, 2017 (Peer-Reviewed Journal)
- XXI. **Design and Implementation of a Tank Rescue Robot Controlled With Android Software**
KAYIŞLI K., Tezel C., Günay O., Demir E.
INTERNATIONAL JOURNAL of ENGINEERING SCIENCE AND APPLICATION, vol.1, no.1, pp.18-23, 2017 (Peer-Reviewed Journal)
- XXII. **Web Based Education for Power Electronics Supported with Animations**
KAYIŞLI K.
Technics Technologies Education Management, vol.8, no.4, pp.1780-1789, 2013 (Peer-Reviewed Journal)
- XXIII. **Kayma Mod ile Asenkron Motorun Algılayıcısız Hız Kontrolü**
KAYIŞLI K., GÜLDEMİR H.
Bitlis Eren Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.1, no.2, pp.92-106, 2012 (Peer-Reviewed Journal)
- XXIV. **Kayma Mod Denetleyici Kullanılarak Aktif Güç Faktörü Düzeltimi**
KAYIŞLI K., TUNCER S., POYRAZ M.
Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.14, no.1, pp.253-260, 2008 (Peer-Reviewed Journal)

Books

- I. **Blockchain and smart charging infrastructure of electric vehicles**
Lazaroiu G. C., Roscia M., Dumbrava V., KAYIŞLI K.
in: Holistic Approach for Decision Making Towards Designing Smart Cities, Lazaroiu George Cristian, Roscia Mariacristina, Dancu Vasile Sebastian, Editor, Springer International Publishing, California, pp.175-198, 2022

Papers Published in Refereed Scientific Meetings

- I. **Design and Lag Compensated Control of a GaN Based Phase Shifted Full Bridge Converter**
Bayram S., KAYIŞLI K., Nasri A.
2024 13th International Conference on Renewable Energy Research and Applications (ICRERA), Nagasaki, Japan, 09 November 2024, pp.1041-1049
- II. **Increasing Electric Power System Stability by Integrating Renewable Energy**
Korot A. H. M., KAYIŞLI K., AL-YOZBAKY O. S. A. Y.
IEEE Global Energy Conference 2024, Rivers, Canada, 4 - 06 December 2024, pp.373-378
- III. **Design of a Phase Shifted Full Bridge DC-DC ZVS Converter with Analog Control**
Sağlam A., KAYIŞLI K.
IEEE Global Energy Conference 2024, Rivers, Canada, 4 - 06 December 2024, pp.304-309
- IV. **The past, present and future of Electric Vehicles**
Kayışlı K.
The 1st International Conference on Applications and Technologies of Renewable Energy Systems, Djelfa, Algeria, 18 - 19 December 2024
- V. **Systems of Smart Load Management for More Electrical Aircraft**
Yıldız M. Ş., KAYIŞLI K.
IEEE Global Energy Conference 2024, Rivers, Canada, 4 - 06 December 2024, pp.368-372
- VI. **Design and Control of a Two Switch Forward Converter with Supertwisting Sliding Mode**
KAYIŞLI K., ÇAĞLAYAN R. Z., ÇÖTELİ R., Roscia M., HARROUZ A., BELKAID A.
2024 13th International Conference on Renewable Energy Research and Applications (ICRERA), Nagasaki, Japan, 09 November 2024, pp.1299-1303
- VII. **Energy Management of DC Microgrid-based Photovoltaic/Battery and Super Capacitor**

Berboucha A., Aissou S., ÇOLAK İ., Djermouni K., BELKAID A., Amirouche E., KAYIŞLI K.

2024 13th International Conference on Renewable Energy Research and Applications (ICRERA), Nagasaki, Japan, 09 November 2024, pp.1316-1321

- VIII. **Energy Management Strategies for Hybrid Electric Vehicles**
Demiroğlu C., KAYIŞLI K.
2024 13th International Conference on Renewable Energy Research and Applications (ICRERA), Nagasaki, Japan, 09 November 2024, pp.1175-1185
- IX. **Comparative Analysis of The Control Algorithms for The Capacitor Charging Power Supplies**
Demirbaş F., KAYIŞLI K., Zhakiyev N.
2024 13th International Conference on Renewable Energy Research and Applications (ICRERA), Nagasaki, Japan, 09 November 2024, pp.952-958
- X. **Intellectual Methods for Analysis of Renewables in the Energy Balance for Low Emission Strategy**
Omirgaliyev R., Zhakiyeva S., KAYIŞLI K., Bapiyev I., Nurlan Z., Satan A.
2024 13th International Conference on Renewable Energy Research and Applications (ICRERA), Nagasaki, Japan, 09 November 2024, pp.1152-1157
- XI. **Artificial Intelligent Applications in Smart Cities**
ÇAĞLAYAN R. Z., KAYIŞLI K., ÇÖTELİ R., Omirgaliyev R., Zhakiyev N.
2024 IEEE 4th International Conference on Smart Information Systems and Technologies (SIST), Astana, Kazakhstan, 15 - 17 May 2024, pp.467-472
- XII. **Comparative Study of Different Deep Learning Approaches for State of Charge Estimation in Lithium Iron Phosphate Battery**
Korbaa N. E. H., BOUCHETATA N., BELARBI A. W., KAYIŞLI K., KAPLAN O.
2024 12th IEEE International Conference on Smart Grid (icSmartGrid), Setúbal, Portugal, 27 - 29 May 2024, pp.714-718
- XIII. **A Comparative Analysis of Cuk, SEPIC, and Zeta Converters as Maximum Power Point Trackers**
HADJI S., BELKAID A., KAYIŞLI K., ÇOLAK İ., Aissou S., larbi I.
2024 12th IEEE International Conference on Smart Grid (icSmartGrid), Setúbal, Portugal, 27 - 29 May 2024, pp.539-544
- XIV. **High Gain Voltage SEPIC Converter for PV System**
HADJI S., BELKAID A., larbi I., ÇOLAK İ., KAYIŞLI K., Aissou S.
2024 12th IEEE International Conference on Smart Grid (icSmartGrid), Setúbal, Portugal, 27 - 29 May 2024, pp.618-622
- XV. **Delay-Dependent Stability Analysis of Micro-Grid with Electric Vehicles Aggregator using Direct Method**
Dakhil S. A., Al-Shalah M., AYASUN S., KAYIŞLI K.
2024 12th IEEE International Conference on Smart Grid (icSmartGrid), Setúbal, Portugal, 27 - 29 May 2024, pp.107-111
- XVI. **Supervised Artificial Neural Networks by Field-Oriented Control applied to PMSG-based Variable-Speed Wind Turbine**
AOUMRI M., HARROUZ A., Ibrahim Y., ÇOLAK İ., KAYIŞLI K., Dumbrava V.
2024 12th IEEE International Conference on Smart Grid (icSmartGrid), Setúbal, Portugal, 27 - 29 May 2024, pp.187-191
- XVII. **Robust Active and Reactive Power Control by using Single-Phase Grid connected H-Bridge Inverter**
ÇÖTELİ R., KAYIŞLI K., ÇAĞLAYAN R. Z.
2024 12th IEEE International Conference on Smart Grid (icSmartGrid), Setúbal, Portugal, 27 - 29 May 2024, pp.614-617
- XVIII. **TEG & Fuel Cell Hybrid System with Sliding Mode Control Based MPPT**
Çağlayan R. Z., Kayışlı K., Belkaid A., Çolak İ., Nasri A.
2023 12th IEEE International Conference on Renewable Energy Research and Applications (ICRERA), Oshawa, Canada, 29 August - 01 September 2023, pp.324-330
- XIX. **Enhanced Control of DFIG Power under Variable Wind Speed Adopting Offline Tuning based GWO**

Approach

Ibrahim B., HARROUZ A., Farid M., Ibrahim Y., ÇOLAK İ., KAYIŞLI K., Dumbrava V.

2023 11th IEEE International Conference on Smart Grid (icSmartGrid), Paris, France, 4 - 07 June 2023, pp.207-213

- XX. **PV&TEG Hybrid System controlled with Fuzzy based MPPT**
Caglayan R. Z., Kayışlı K., Roscia M., Harrouz A., Bayındır R., Colak I.
11th International Conference on Smart Grid, icSmartGrid 2023, Paris, France, 4 - 07 June 2023
- XXI. **Synchronous Reference Frame Control of Transformer Based DC mA Current Sensor**
Calar M., Kayışlı K.
11th International Conference on Smart Grid, icSmartGrid 2023, Paris, France, 4 - 07 June 2023
- XXII. **Fuzzy-MPPT Controller Based Solar Shunt Active Power Filter**
Sarraf M., BELKAID A., ÇOLAK İ., Boudechiche G., KAYIŞLI K.
2022 11th IEEE International Conference on Renewable Energy Research and Applications, İstanbul, Turkey, 18 September 2022, pp.436-440
- XXIII. **Multi Input-Multi Output (MIMO) converter system fed by Wind Energy**
Gürbüz F. B., Kayışlı K., Demirbaş Ş., Bayındır R., Çolak İ., Roscia M.
2022 11th IEEE International Conference on Renewable Energy Research and Applications, İstanbul, Turkey, 18 September 2022, pp.179-185
- XXIV. **A Multi-Carrier Energy Method for Self-Consumption Enhancement in Smart Residential Buildings**
Zhanbolatov A., Zhakiyeva S., Azibek B., Zhakiyev N., KAYIŞLI K., Tursyngul D.
2022 11th IEEE International Conference on Renewable Energy Research and Applications, İstanbul, Turkey, 18 September 2022, pp.388-394
- XXV. **Smart Contracts for Households Managed by Smart Meter Equipped with Blockchain and Chain 2**
Lazaroiu G. C., KAYIŞLI K., Roscia M., Steriu I. A.
2022 11th IEEE International Conference on Renewable Energy Research and Applications, İstanbul, Turkey, 18 September 2022, pp.340-345
- XXVI. **A Case Study: Standalone Hybrid Renewable Energy Systems**
ÇAĞLAYAN R. Z., KAYIŞLI K., Zhakiyev N., HARROUZ A., ÇOLAK İ.
2022 11th IEEE International Conference on Renewable Energy Research and Applications, İstanbul, Turkey, 18 September 2022, pp.284-292
- XXVII. **Fuzzy-Sliding Mode Control Second Order of Wind Turbine Based on DFIG**
Saihi L., Bakou Y., HARROUZ A., Boura M., ÇOLAK İ., KAYIŞLI K.
2022 10th IEEE International Conference on Smart Grid (icSmartGrid), İstanbul, Turkey, 27 June 2022
- XXVIII. **Study and Sliding Mode Control of the Permanent Magnet Synchronous Machine**
Ikram N., HARROUZ A., ÇOLAK İ., Beltrache D., Dumbrava V., KAYIŞLI K.
2022 10th IEEE International Conference on Smart Grid (icSmartGrid), İstanbul, Turkey, 27 June 2022
- XXIX. **Robust Sensor-less SMC under Variable-Speed Wind Turbine Systems of DFIG based on FKE**
Saihi L., Bakou Y., HARROUZ A., Boura M., ÇOLAK İ., KAYIŞLI K.
2022 10th IEEE International Conference on Smart Grid (icSmartGrid), İstanbul, Turkey, 27 June 2022
- XXX. **Photovoltaic/Wind Hybrid System Power Stations to Produce Electricity in Adrar Region**
Bamdjid H., Benhami M., HARROUZ A., Abbas R., ÇOLAK İ., Bouazza F., Dumbrava V., KAYIŞLI K.
2022 10th IEEE International Conference on Smart Grid (icSmartGrid), İstanbul, Turkey, 27 June 2022
- XXXI. **Servomechanism based Optimal Control System Design for Maximum Power Extraction from WECS with PMSG**
Sarsembayev B., Zhakiyev N., Akhmetbayev A., KAYIŞLI K.
2022 10th IEEE International Conference on Smart Grid (icSmartGrid), İstanbul, Turkey, 27 - 29 June 2022
- XXXII. **3-Phase Multi-Pulse Rectifiers with Different Phase Shifting Transformers and Comparison of Total Harmonic Distortion**
Çalar M., Durna E., Kayışlı K.
2022 9th IEEE International Conference on Electrical and Electronics Engineering, Antalya, Turkey, 29 March 2022
- XXXIII. **Control Strategy of the Permanent Magnet Stepper Motor**
HARROUZ A., HACHEMI G., ÇOLAK İ., KAYIŞLI K., Dumbrava V.

- 2021 10th IEEE International Conference on Renewable Energy Research and Application (ICRERA), İstanbul, Turkey, 26 - 29 September 2021
- XXXIV. **A Novel Control Approach of Multi Motor Electric Scooter Drive**
Hicham C., Nasri A., HARROUZ A., KAYIŞLI K.
2021 10th IEEE International Conference on Renewable Energy Research and Application (ICRERA), İstanbul, Turkey, 26 - 29 September 2021
- XXXV. **An Improved DTC Strategy for a DFIG using an Artificial Neural Network Controller**
İbrahim Y., HARROUZ A., Boussaid I., Semmah A., Wira P., ÇOLAK İ., KAYIŞLI K.
2021 9th IEEE International Conference on Smart Grid (icSmartGrid), Setúbal, Portugal, 29 June 2021
- XXXVI. **Reducing Voltage and Frequency Fluctuations in Power Systems using Smart Power Electronics Technologies: A Review**
Çolak A. M., KAYIŞLI K.
2021 9th IEEE International Conference on Smart Grid (icSmartGrid), Setúbal, Portugal, 29 June 2021
- XXXVII. **Reliable Power Flow Control in Parallel Transmission Lines Based on UPFC**
HARROUZ A., BOULAL E., Saidi A., ÇOLAK İ., KAYIŞLI K.
2020 9th International Conference on Renewable Energy Research and Application (ICRERA), Glasgow, United Kingdom, 27 - 30 September 2020, pp.423-427
- XXXVIII. **Social Acceptance of Renewable Energy dedicated to Electric Production**
HARROUZ A., Belatrache D., KA B., ÇOLAK İ., KAYIŞLI K.
2020 9th International Conference on Renewable Energy Research and Application (ICRERA), Glasgow, United Kingdom, 27 - 30 September 2020, pp.283-288
- XXXIX. **Indirect Sliding Mode Voltage Control of Buck Converter**
BELKAID A., ÇOLAK İ., KAYIŞLI K., BAYINDIR R.
2020 8th International Conference on Smart Grid (icSmartGrid), Paris, France, 17 - 19 June 2020
- XL. **Improving PV System Performance using High Efficiency Fuzzy Logic Control**
BELKAID A., ÇOLAK İ., KAYIŞLI K., BAYINDIR R.
2020 8th International Conference on Smart Grid (icSmartGrid), Paris, France, 17 - 19 June 2020
- XLI. **Robust Controller Based on Sliding Mode Technique of DFIG Integrated to Wind Energy System**
HARROUZ A., Bakou Y., ÇOLAK İ., Aissaoui A. G., KAYIŞLI K., BAYINDIR R.
2019 7th International Conference on Smart Grid (icSmartGrid), Newcastle, Australia, 9 - 11 December 2019
- XLII. **Modeling and Simulation of Polycrystalline Silicon Photovoltaic Cells**
BELKAID A., ÇOLAK İ., KAYIŞLI K.
2019 7th International Conference on Smart Grid (icSmartGrid), Newcastle, Australia, 9 - 11 December 2019
- XLIII. **Energy Modeling Output of Wind System based on Wind Speed**
HARROUZ A., ÇOLAK İ., KAYIŞLI K.
2019 8th International Conference on Renewable Energy Research and Applications (ICRERA), Brasov, Romania, 3 - 06 November 2019
- XLIV. **A Comparative Study Between Robust Control Sliding Mode and Backstepping of a DFIG Integrated to Wind Power System**
HARROUZ A., Saihi L., Bakou Y., ÇOLAK İ., KAYIŞLI K., BAYINDIR R.
2019 7th International Conference on Smart Grid (icSmartGrid), Newcastle, Australia, 9 - 11 December 2019
- XLV. **Performance Comparison of Different Machine Learning Algorithms on the Prediction of Wind Turbine Power Generation**
EYECİOĞLU Ö., HANGÜN B., KAYIŞLI K., YEŞİLBUDAK M.
2019 8th International Conference on Renewable Energy Research and Applications (ICRERA), Brasov, Romania, 3 - 06 November 2019
- XLVI. **Performance Enhancement of Hybrid Solar PV-Wind System Based on Fuzzy Power Management Strategy: A Case Study**
HARROUZ A., Saidi A., ÇOLAK İ., KAYIŞLI K., BAYINDIR R.
2019 7th International Conference on Smart Grid (icSmartGrid), Newcastle, Australia, 9 - 11 December 2019
- XLVII. **DTC Control of the DFIG, Application to the Production of Electrical Energy**

Bakou Y., Mohamed A., HARROUZ A., Ibrahim Y., ÇOLAK İ., KAYIŞLI K., Aissaoui A. G.

2019 8th International Conference on Renewable Energy Research and Applications (ICRERA), Brasov, Romania, 3 - 06 November 2019

XLVIII. Information Systems and Renewable Energy in Algeria

HARROUZ A., ABBES M., ÇOLAK İ., KAYIŞLI K.

2019 Algerian Large Electrical Network Conference (CAGRE), Algiers, Algeria, 26 - 28 February 2019, vol.1, pp.1-5

XLIX. Maximum Power Extraction from a Photovoltaic Panel and a Thermoelectric Generator Constituting a Hybrid Electrical Generation System

Belkaid A., Colak I., KAYIŞLI K., BAYINDIR R., BÜLBÜL H. İ.

6th IEEE International Conference on Smart Grid, icSmartGrids 2018, Nagasaki, Japan, 4 - 06 December 2018, pp.276-282

L. The ANFIS as a Prediction Method of Efficiency of PV Cells

BEKEN M., KAYIŞLI K., EYECİOĞLU Ö., yağcı ö., İÇELLİ O.

2018 7th International Conference on Renewable Energy Research and Applications (ICRERA), Paris, France, 14 - 17 October 2018

LI. A Fuzzy Controller for Stabilization of Asynchronous Machine

Kayışlı K.

2018 IEEE 7th International Conference on Renewable Energy Research and Applications (ICRERA), Paris, France, 14 - 17 October 2018, pp.1369-1373

LII. Design of an Intelligent Peak Power Converter for Solar Plants with Lead-acid Battery

Kayışlı K.

2018 IEEE 7th International Conference on Renewable Energy Research and Applications (ICRERA), Paris, France, 14 - 17 October 2018, pp.1400-1406

LIII. Sensorless Control of Wind Turbine Conversion Equipped with a DFIG Using MPPT Strategy

Becheri H., Bousserhane I. K., HARROUZ A., ÇOLAK İ., KAYIŞLI K.

2018 IEEE 18th International Power Electronics and Motion Control Conference (PEMC), Budapest, Hungary, 26 - 30 August 2018

LIV. A comprehensive study of different photovoltaic peak power tracking methods

BELKAID A., ÇOLAK İ., KAYIŞLI K.

2017 IEEE 6th International Conference on Renewable Energy Research and Applications (ICRERA), San Diego, CA, USA, 5 - 08 November 2017

LV. Modeling and simulation of thermo electrical generator with MPPT

BELKAID A., ÇOLAK İ., KAYIŞLI K.

2017 IEEE 6th International Conference on Renewable Energy Research and Applications (ICRERA), San Diego, CA, USA, 5 - 08 November 2017

LVI. Smart grid and renewable energy in Algeria

HARROUZ A., ABBES M., ÇOLAK İ., KAYIŞLI K.

2017 IEEE 6th International Conference on Renewable Energy Research and Applications (ICRERA), San Diego, CA, USA, 5 - 08 November 2017

LVII. Control of a small wind turbine system application

HARROUZ A., ÇOLAK İ., KAYIŞLI K.

2016 IEEE International Conference on Renewable Energy Research and Applications (ICRERA), Birmingham, United Kingdom, 20 - 23 November 2016

LVIII. Optimum control strategy based on an equivalent sliding mode for solar systems with battery storage

Belkaid A., ÇOLAK İ., KAYIŞLI K.

2016 IEEE International Power Electronics and Motion Control Conference (PEMC), Varna, Bulgaria, Bulgaria, 25 - 28 September 2016, pp.1262-1268

LIX. Uzaktan Eğitim ve Sosyal Ağlar

SEVİNDİK T., KAYIŞLI K., GENÇ Z., BAŞAL A.

International Computer Instructional Technology Symposium, 22 - 24 September 2011, vol.1, pp.100-101

- LX. **The effect of social network on student attitudes**
KAYIŞLI K., HAZAR H., ÖZTÜRK U.
International Congress of Educational Research, 4 - 07 May 2011, vol.1, pp.1085-1094
- LXI. **Çoklu zeka tespitinde yapay sinir ağları kullanımı**
SEVİNDİK T., KAYIŞLI K.
3. Uluslararası Bilgisayar ve Öğretim Teknolojileri Eğitimi Sempozyumu, 7 - 09 October 2009, vol.1, pp.367-371
- LXII. **Hysteresis Control of a Boost PFC Converter Circuit**
KAYIŞLI K., TUNCER S., POYRAZ M.
4nd FAE International Symposium, 4 - 06 May 2006, vol.1, pp.587-590

Supported Projects

- Kayışlı K., Project Supported by Other Official Institutions, İnsansız Hava Araç Teknolojisinde Raspberry Pi kullanımı ve Nesne Tespiti, 2024 - 2025
- Kayışlı K., TUBITAK Project, Modular Motor Drive Design for Electric Vehicles, 2024 - 2025
- Kayışlı K., TUBITAK Project, Vehicle Control System for Hydrogen Fuel Cell and Dual Electric Motor Vehicles, 2024 - 2025
- Kayışlı K., FP2 Project, E Commerce in Marble TR/06/A/F/EX1-1585 the Leonardo Da Vinci Pilot Project Topluluk Mesleki Eğitim Eylem Programı İKİNCİ AŞAMA : 2000 – 2006 HAREKETLİLİK, 2006 - 2006
- Kayışlı K., FP2 Project, Computer Aided Design Sharing via The Distance Education in Vocational Schools, 2005 - 2005

Activities in Scientific Journals

- Algerian Journal of Renewable Energy and Sustainable Development, Assistant Editor/Section Editor, 2023 - Continues
- ELECTRIC POWER COMPONENTS AND SYSTEMS, Editor, 2023 - Continues
- International Journal of Renewable Energy Researches, Assistant Editor/Section Editor, 2016 - Continues
- International Journal of Engineering Science and Application, Assistant Editor/Section Editor, 2017 - 2022

Memberships / Tasks in Scientific Organizations

- IEEE, Principal Member, 2017 - Continues, United States Of America

Peer Reviews in Scientific Publications

- IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, SCI Journal, March 2025
- IEEE JOURNAL OF EMERGING AND SELECTED TOPICS IN POWER ELECTRONICS, SCI Journal, March 2025
- IET POWER ELECTRONICS, SCI Journal, March 2025
- IET POWER ELECTRONICS, SCI Journal, February 2025
- IEEE TRANSACTIONS ON EDUCATION, SCI Journal, February 2025
- COMPUTERS AND ELECTRICAL ENGINEERING, SCI Journal, January 2025
- COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, SCI Journal, January 2025
- IEEE TRANSACTIONS ON INDUSTRY APPLICATIONS, SCI Journal, January 2025
- COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, SCI Journal, January 2025
- IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, SCI Journal, January 2025
- IEEE TRANSACTIONS ON EDUCATION, SCI Journal, December 2024
- IEEE JOURNAL OF EMERGING AND SELECTED TOPICS IN POWER ELECTRONICS, SCI Journal, December 2024
- COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, SCI Journal, October 2024
- COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, SCI Journal, October 2024
- IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, SCI Journal, October 2024

IEEE TRANSACTIONS ON EDUCATION, SCI Journal, July 2024
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, SCI Journal, July 2024
AIN SHAMS ENGINEERING JOURNAL, SCI Journal, January 2024
INTERNATIONAL JOURNAL OF RENEWABLE ENERGY RESEARCH, Journal Indexed in ESCI, January 2024
Balkan Journal of Electrical and Computer Engineering, National Scientific Refreed Journal, January 2024
ENERGY REPORTS, SCI Journal, January 2024
SCIENTIFIC REPORTS, SCI Journal, January 2024
Engineered Science, Other Indexed Journal, December 2023
INTERNATIONAL JOURNAL OF POWER AND ENERGY CONVERSION, Other Indexed Journal, December 2023
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, SCI Journal, November 2023
Serbian Journal of Electrical Engineering, Other Indexed Journal, November 2023
ELECTRIC POWER COMPONENTS AND SYSTEMS, SCI Journal, November 2023
ELECTRIC POWER COMPONENTS AND SYSTEMS, SCI Journal, November 2023
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, SCI Journal, November 2023
Scientific African, Journal Indexed in ESCI, October 2023
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, SCI Journal, October 2023
ARTIFICIAL INTELLIGENCE REVIEW, SCI Journal, September 2023
IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, SCI Journal, August 2023
ELECTRICAL ENGINEERING, SCI Journal, July 2023
Multiscale and Multidisciplinary Modeling, Experiments and Design, Journal Indexed in ESCI, June 2023
APPLIED SCIENCES, SCI Journal, May 2023
Multiscale and Multidisciplinary Modeling, Experiments and Design, Journal Indexed in ESCI, May 2023
INTERNATIONAL JOURNAL OF AD HOC AND UBIQUITOUS COMPUTING, SCI Journal, May 2023
IEEE SYSTEMS JOURNAL, SCI Journal, April 2023
ELECTRIC POWER COMPONENTS AND SYSTEMS, SCI Journal, April 2023
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, SCI Journal, April 2023
SENSORS, SCI Journal, March 2023
IEEE INDUSTRY APPLICATIONS MAGAZINE, Journal Indexed in SCI-E, January 2023
Journal Of Circuits, Systems, And Computers, National Scientific Refreed Journal, January 2023
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, Journal Indexed in SCI-E, January 2023
IEEE SYSTEMS JOURNAL, Journal Indexed in SCI-E, January 2023
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, SCI Journal, December 2022
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, SCI Journal, December 2022
INTERNATIONAL JOURNAL OF AMBIENT ENERGY, Journal Indexed in SCI-E, November 2022
SUSTAINABILITY, Journal Indexed in SCI-E, November 2022
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, SCI Journal, November 2022
Journal of Circuits, Systems, and Computers, Other Indexed Journal, November 2022
ENERGIES, SCI Journal, November 2022
INTERNATIONAL JOURNAL OF POWER ELECTRONICS AND DRIVE SYSTEMS, SCI Journal, October 2022
ELECTRIC POWER COMPONENTS AND SYSTEMS, SCI Journal, October 2022
ELECTRIC POWER COMPONENTS AND SYSTEMS, SCI Journal, October 2022
International Journal of Design Engineering, Other journals, October 2022
International Journal of Electrical and Computer Engineering, SCI Journal, May 2022
IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS, SCI Journal, January 2022

Tasks In Event Organizations

Kayışlı K., Energy Systems, Artificial Intelligence, Plasma, Materials and Environment (ESAIPME'2024), Scientific Congress, Ghardaïa, Algeria, Ekim 2024

Kayışlı K., ICSMARTGRID 2024 12TH IEEE INTERNATIONAL CONFERENCE ON SMART GRID, Scientific Congress, Setúbal,

Portugal, Mayıs 2024

Kayışlı K., Sixth International Conference on Electrotechnics ICEL'23, Scientific Congress, Oran, Algeria, Kasım 2023

Kayışlı K., ICRERA 2022 11TH IEEE INTERNATIONAL CONFERENCE ON RENEWABLE ENERGY RESEARCH AND APPLICATIONS, Scientific Congress, Oshawa, Canada, Eylül 2023

Kayışlı K., ICSMARTGRID 2023 11TH IEEE INTERNATIONAL CONFERENCE ON SMART GRID, Scientific Congress, Paris, France, Haziran 2023

Kayışlı K., 2023 IEEE International Conference on Smart Information Systems and Technologies (SIST), Scientific Congress, Astana, Kazakhstan, Mayıs 2023

Kayışlı K., ICRERA 2022 11TH INTERNATIONAL CONFERENCE ON RENEWABLE ENERGY RESEARCH AND APPLICATIONS, Scientific Congress, İstanbul, Turkey, Eylül 2022

Kayışlı K., ICSMARTGRID 2022 10TH INTERNATIONAL CONFERENCE ON SMART GRID, Scientific Congress, İstanbul, Turkey, Haziran 2022

Kayışlı K., AYAZ Z., Akıllı Şebekeler Ulusal Çalıştayı, Workshop Organization, Ankara, Turkey, Mayıs 2022

Metrics

Publication: 116

Citation (WoS): 581

Citation (Scopus): 918

H-Index (WoS): 12

H-Index (Scopus): 15

Congress and Symposium Activities

Sixth International Conference on Electrotechnics ICEL'23, Invited Speaker, Oran, Algeria, 2023