Assoc. Prof. KORHAN KAYIŞLI

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International Researcher IDs

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

ScopusID: 36543848200

Education Information

Doctorate, Firat University, Faculty Of Engıneerıng, Department Of Electrıcal And Electronıcs Engıneerıng, Turkey 2004 - 2012

Postgraduate, Firat University, Instıtute Of Scıence, Elektronik Bilgisayar Eğitimi, Turkey 2001 - 2004

Undergraduate, Sakarya University, Faculty Of Technıcal Educatıon, Department Of Electronıcs And Computer Educatıon, Turkey 1997 - 2001

Biography

Dr.Korhan Kayisli 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, Elazig, Turkey, in 2004. He received PhD degree at the area of power electronics in Electric and Electronics Engineering at Firat University, Elazig, 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, Instıtute Of Scıence, Elektrik Elektronik Mühendisliği, 2012

Postgraduate, Asenkron motorun kayma mod algılayıcısız hız kontrolü, Firat University, Instıtute Of Scıence, 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 Eğtim 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

EE Engineering Design I, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023
EE Engineering Design II, Undergraduate, 2024 - 2025, 2022 - 2023, 2021 - 2022
DYNAMIC BEHAVIOR AND CONTROL OF AC DRIVES, Postgraduate, 2023 - 2024, 2022 - 2023
Control Systems I, Undergraduate, 2023 - 2024, 2021 - 2022
POWER ELECTRONIC APPLICATIONS IN SYSTEMS, Postgraduate, 2024 - 2025, 2023 - 2024, 2021 - 2022
Electrical Motors and Drives, Undergraduate, 2023 - 2024
Industrial Control, Undergraduate, 2024 - 2025, 2023 - 2024, 2021 - 2022
MULTIPORT POWER CONVERTERS IN SMART GRIDS, Postgraduate, 2021 - 2022
GÜÇ ELEKTRONİĞİNİN GÜÇ SİSTEMİ UYGULAMALARI, Postgraduate, 2022 - 2023, 2021 - 2022
Discrete Time Control Systems, Undergraduate, 2021 - 2022

Advising Theses

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. **Strain Energy Prediction of Single Wall CarbonNanotubes Using General Regression NeuralNetwork and Adaptive Neuro–Fuzzy InferenceSystem**
Eyecioğlu Ö., Kayışlı K., Beken M.
ELECTRIC POWER COMPONENTS AND SYSTEMS, vol.52, no.8, pp.1437-1447, 2024 (SCI-Expanded)

III. **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 (Kuwait), vol.12, no.1, pp.148-159, 2024 (SCI-Expanded)

IV. **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)

V. **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)

VI. **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)

VII. **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)

VIII. **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)

IX. **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)

X. **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)

XI. **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)

XII. **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)

XIII. **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)

XIV. **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)

XV. **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)

XVI. **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)

XVII. **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)

XVIII. **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)

XIX. **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)

XX. **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. **Predicting LAN switch failures: An integrated approach with DES and machine learning techniques (RF/LR/DT/SVM)**

Kayışlı K.

Results in Engineering, vol.23, pp.1-14, 2024 (ESCI)

II. **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)

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. **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)

V. **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)

VI. **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)

VII. **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)

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. **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)

X. **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)

XI. **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)

XII. **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)

XIII. **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)

XIV. **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)

XV. **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)

XVI. **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)

XVII. **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)

XVIII. **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)

XIX. **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)

XX. **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)

XXI. **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)

XXII. **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)

XXIII. **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 & Book Chapters

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

Refereed Congress / Symposium Publications in Proceedings

I. **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

II. **High Gain Voltage SEPIC Converter for PV System**

HADJI S., BELKAID A., larbi l., ÇOLAK İ., KAYIŞLI K., Aissou S.

2024 12th IEEE International Conference on Smart Grid (icSmartGrid), Setúbal, Portugal, 27 - 29 May 2024, pp.618-622

III. **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

IV. **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 l.

2024 12th IEEE International Conference on Smart Grid (icSmartGrid), Setúbal, Portugal, 27 - 29 May 2024, pp.539-544

V. **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

VI. **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

VII. **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

VIII. **TEG & Fuel Cell Hybrid System with Sliding Mode Control Based MPPT**
Çağlayan R. Z., Kayışlı K., Belkaıd 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

IX. **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

X. **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

XI. **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

XII. **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

XIII. **Fuzzy-MPPT Controller Based Solar Shunt Active Power Filter**
Sarra 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

XIV. **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

XV. **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

XVI. **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

XVII. **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

XVIII. **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

XIX. **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

XX. **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

XXI. **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

XXII. **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

XXIII. 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

XXIV. 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

XXV. An Improved DTC Strategy for a DFIG using an Artificial Neural Network Controller
Ibrahim 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

XXVI. 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

XXVII. 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

XXVIII. 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

XXIX. 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

XXX. 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

XXXI. 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

XXXII. 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.
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XXXIII. DTC Control of the DFIG, Application to the Production of Electrical Energy
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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

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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

Scientific Refereeing

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

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INTERNATIONAL JOURNAL OF AD HOC AND UBIQUITOUS COMPUTING, SCI Journal, May 2023

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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

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Journal of Circuits, Systems, and Computers, Other Indexed Journal, November 2022

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INTERNATIONAL JOURNAL OF POWER ELECTRONICS AND DRIVE SYSTEMS, SCI Journal, October 2022

ELECTRIC POWER COMPONENTS AND SYSTEMS, SCI Journal, October 2022

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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

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France, Haziran 2023

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

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

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Metrics

Publication: 106
Citation (WoS): 526
Citation (Scopus): 799
H-Index (WoS): 12
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Congress and Symposium Activities

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