

Asst. Prof. KORHAN KAYIŞLI



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Education Information

Doctorate, Firat University, Institute Of Science, Turkey 2004 - 2012

Postgraduate, Firat University, Institute Of Science, Turkey 2001 - 2004

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 assistant professor in the Department of Electrical Electronics Engineering, Engineering Faculty, Gazi University, Ankara, Turkey. He is an IEEE member and 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

Power Electronics, Power Converters, Power Quality, Engineering and Technology

Academic Titles / Tasks

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

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

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

- I. **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
(Journal Indexed in SCI Expanded)
- II. **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 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **Internet journalism in cyberculture and its effect on adult attitude**
Kayisli K.
ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART B-SOCIAL AND EDUCATIONAL STUDIES, vol.4, no.3, pp.1535-1546, 2012 (Journal Indexed in SCI)
- XI. **Hidden Programme and Application Development in Web based Education**
SEVİNDİK T., GÜROL A., KAYIŞLI K., BAŞAL A.
Procedia - Social and Behavioral Sciences (Elsevier), vol.2, no.2, pp.5114-5119, 2010 (Journal Indexed in SSCI)
- XII. **Semantic Web and Its Reflections in Distance Education**
SEVİNDİK T., KAYIŞLI K., ÜNLÜKAHRAMAN O.
Procedia - Social and Behavioral Sciences (Elsevier), vol.2, no.2, pp.5109-5113, 2010 (Journal Indexed in SSCI)

Articles Published in Other Journals

- I. **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 (Refereed Journals of Other Institutions)
- II. **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 (Journal Indexed in ESCI)
- III. **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.1443-1452, 2019 (Refereed Journals of Other Institutions)
- IV. **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 (Refereed Journals of Other Institutions)
- V. **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 (Refereed Journals of Other Institutions)
- VI. **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 (Refereed Journals of Other Institutions)
- VII. **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 (Other Refereed National Journals)
- VIII. **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 (Refereed Journals of Other Institutions)
- IX. **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 (Refereed Journals of Other Institutions)
- X. **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 (Refereed Journals of Other Institutions)
- XI. **Web Based Education for Power Electronics Supported with Animations**
KAYIŞLI K.
Technics Technologies Education Management, vol.8, no.4, pp.1780-1789, 2013 (Refereed Journals of Other Institutions)
- XII. **Comparison of Reflective Thinking Profiles of Individuals using Social Networks for Education in terms of Time Variable**
KAYIŞLI K., SEVİNDİK T., HAZAR H.
The Online Journal of Distance Education and e-Learning, vol.1, no.1, pp.26-32, 2013 (Refereed Journals of Other Institutions)
- XIII. **Web Tabanlı Eğitimde Veri Madenciliği**

SEVİNDİK T., KAYIŞLI K., ÜNLÜKAHRAMAN O.

Turkish Journal of Computer and Mathematics Education, vol.3, no.3, pp.183-193, 2012 (Other Refereed National Journals)

XIV. **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 (Other Refereed National Journals)

XV. **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 (Other Refereed National Journals)

XVI. **Mesleki Eğitimde Uzaktan Eğitim Yoluyla Bilgisayar Destekli Tasarım ve Paylaşım**

SEVİNDİK T., KAYIŞLI K.

DAUM, vol.5, no.1, pp.27-29, 2006 (Other Refereed National Journals)

Books & Book Chapters

I. **Blockchain and smart charging infrastructure of electric vehicles**

Kayışlı K.

in: Holistic Approach for Decision Making Towards Designing Smart Cities, Lazaroiu George Cristian, Roscia Mariacristina, Dancu Vasile Sebastian, Editor, Springer, London/Berlin, London, pp.1-265, 2021

Refereed Congress / Symposium Publications in Proceedings

I. **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

II. **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

III. **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

IV. **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

V. **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

VI. **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

VII. **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

- VIII. **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
- IX. **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
- X. **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
- XI. **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
- XII. **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
- XIII. **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
- XIV. **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
- XV. **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
- XVI. **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
- XVII. **Maximum Power Extraction from a Photovoltaic Panel and a Thermoelectric Generator Constituting a Hybrid Electrical Generation System**
Kayışlı K.
2018 IEEE International Conference on Smart Grid (icSmartGrid), Nagasaki, Japan, 4 - 06 December 2018, pp.276-282
- XVIII. **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
- XIX. **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
- XX. **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

- XXI. **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
- XXII. **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
- XXIII. **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
- XXIV. **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
- XXV. **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
- XXVI. **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
- XXVII. **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
- XXVIII. **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
- XXIX. **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
- XXX. **Hysteresis Control of a Boost PFC Converter Circuit**
KAYIŞLI K., TUNCER S., POYRAZ M.
4th FAE International Symposium, 4 - 06 May 2006, vol.1, pp.587-590

Supported Projects

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

International Journal of Engineering Science and Application, Assistant Editor, 2017 - Continues

International Journal of Renewable Energy Researches, Assistant Editor, 2016 - Continues

Citations

Total Citations (WOS):156

h-index (WOS):6