

ÖZGEÇMİŞ VE ESERLER LİSTESİ

ÖZGEÇMİŞ

Adı ve Soyadı: Farzin ASADİ

Doğum Tarihi: 28.07.1985

Doğum Yeri: İran

Akademik Unvanı: Dr. Öğretim Üyesi

İş Telefonu: (0216) 626 10 50 Dahili: 2358.

İş Adresi: Büyükbakkalköy, Maltepe Ün. Marmara Eğitim Köyü, 34857 Maltepe/İstanbul

E-postası: farzinasadi@maltepe.edu.tr

Bildiği Yabancı Diller (Puan ve Yılı): İngilizce (90,YÖKDİL1, 2020).

Aldığı Sertifikalar: -

Uzmanlık Alanı: Güç Elektroniği, Kontrol.

Derece	Bölüm/Program	Üniversite	Yıl
Lisans	Elektronik Müh.	Kordestan ünivesitesi, İRAN.	2011
Y. Lisans	Kontrol Müh.	Kordestan üniversitesi, İRAN.	2013
Doktora	Mekatronik Müh.	Kocaeli üniversitesi, Türkiye.	2019
Doç. / Prof.	-	-	-

Doktora Tezi: DA-DA Dönüştürücülerde Gürbüz Kontrol Uygulamaları

Danışman : Prof. Dr. Nurettin ABUT

Görevler:

Görev Unvanı	Görev Yeri	Yıl
Öğretim görevlisi	Iran (Sanandaj) Payam-e-Noor Üniversitesi	2013-2014
-	-	-
-	-	-
-	-	-

Yönetilen Yüksek Lisans Tezleri :

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Yönetilen Doktora Tezleri/Sanatta Yeterlik Çalışmaları :

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Projelerde Yaptığı Görevler:

.....

İdari Görevler:

.....

Bilimsel Kuruluşlara Üyelikler:

Ödüller:

Son iki yılda verdiği lisans ve lisansüstü düzeydeki dersler (Açılmışsa, yaz döneminde verilen dersler de tabloya ilave edilecektir):

Akademik Yıl	Dönem	Dersin Adı	Haftalık Saati		Öğrenci Sayısı
			Teorik	Uygulama	
19xx-xxxx	Güz	-	-	-	-
		-	-	-	-
	Bahar	-	-	-	-
		-	-	-	-
		-	-	-	-
2013-2014	Güz	Elektronik I	3	0	35
		Kontrol	3	0	35
		Devre I	3	0	35
	Bahar	Elektronik II	3	0	35
		Elektronik I	3	0	35
2020-2021	Güz	Mühendislik matematiği	3	0	32
		Güç elektroniği	3	0	4
	Bahar	-	-	-	-
		-	-	-	-

ESERLER

A. Uluslararası hakemli dergilerde yayımlanan makaleler:

A1 (ESCI)- ITAE criterion based controller for buck converter, **Farzin Asadi**, Nurettin Abut, International Journal of Advanced and Applied Sciences, Volume 4, Issue 1 (January 2017), Pages:15-22.

A2 (ESCI)- A simple method for electrical machine's mechanical parameter extraction, **Farzin Asadi**, Nurettin Abut, Ismet Kandilli, International Journal of Advanced and Applied Sciences, Volume 4, Issue 4 (April 2017), Pages:164-169.

A3 (ESCI)- A novel buck-boost converter, **Farzin Asadi**, Nurettin Abut, Ismet Kandilli, International Journal of Advanced and Applied Sciences, Volume 4, Issue 5 (May 2017), Pages:133-137.

A4 (ESCI)- Development of a power electronics converter dynamics toolbox for MATLAB, **Farzin Asadi**, Nurettin Abut, Üzeyir Akça, International Journal of Advanced and Applied Sciences, Volume 4, Issue 6 (June 2017), Pages:56-62.

A5 (ESCI)- Designing a PI controller for Cuk converter using converter dynamics toolbox for MATLAB, **Farzin Asadi**, Nurettin Abut, Üzeyir Akça, International Journal of Advanced and Applied Sciences, Volume 4, Issue 6 (June 2017), Pages:175-180.

A6 (ESCI)- Joy of controller design: Controller design based on Kocaeli university's converter dynamics toolbox for MATLAB, **Farzin Asadi**, Nurettin Abut, İsmet Kandilli, International Journal of Advanced and Applied Sciences, Volume 4, Issue 7 (July 2017), Pages:5-10.

A7 (ESCI)- Linear controller design for a large dc gain converter, **Farzin Asadi**, Nurettin Abut, Üzeyir Akça, International Journal of Advanced and Applied Sciences, Volume 4, Issue 7 (July 2017), Pages:136-140.

A8 (ESCI)- Dynamics and control of a novel buck-boost converter with low stresses on switches and diodes, **Farzin Asadi**, Nurettin Abut, İsmet Kandilli, International Journal of Advanced and Applied Sciences, Volume 4, Issue 8(August 2017), Pages:149-153.

A9 (ESCI)- KUCA: Kocaeli University Converter Analysis simulation software in power electronics, **Farzin Asadi**, Nurettin Abut, International Journal of Advanced and Applied Sciences, Volume 3, Issue 12 (December 2016), Pages: 55-61.

A10 (ESCI)- Pole placement based on derivative of states, **Farzin Asadi**, Nurettin Abut, International Journal of Advanced and Applied Sciences, Volume 3, Issue 10 (October 2016), Pages:100-102.

A11 (ESCI)- Design of a non-thermal food processing system utilizing wire discharge of dual electrodes in underwater, Kei Eguchi, Anurak Jaiwanglok, Amphawan Julsereewong, **Farzin Asadi**, Hiroto Abe and Ichirou Oota, International Journal of Innovative Computing, Information and Control(ICIC), Volume 14, Number 3, June 2018.

A12 (ESCI)- A small direct sc ac-ac converter with cascade topology, Kei Eguchi, **Farzin Asadi**, Kyoka Kuwaharal, Takaaki Ishibashi and Ichirou Oota, International Journal of Innovative Computing, Information and Control, Volume 14, Number 5, October 2018.

A13 (SCIE)- A new analysis way of three-phase switched capacitor converters, Wanglok Do, **Farzin Asadi**, Kei Eguchi, Journal of circuits, systems and computers, Vol. 28, No. 08, 2019.

A14 (ESCI)- Development of a simple direct switched-capacitor ac-ac converter using cascade connection, Kei Eguchi, **Farzin Asadi**, Hiroto Abe, Takaaki Ishibashi and Hirofumi Sasaki, International Journal of Innovative Computing, Information and Control, Volume 14, Number 6, December 2018.

A15 (ESCI)- A cross-connected charge pump for energy harvesting applications, Wanlok Do, Haruka Fujisaki, **Farzin Asadi** and Kei Eguchi, International Journal of Innovative Computing, Information and Control, Volume 15, Number 3, June 2019.

A16 (Elsevier (Scopus), INSPEC (IET))- Experiment of a high voltage gain switched capacitor dc-dc converter based on a cross-connected fibonacci-type converter, Ratanabol Rubpongse, **Farzin Asadi**, Wanglok Do and Kei Eguchi, ICIC Express Letters, May 2019.

A17 (SCIE)- Hybrid Spiral STC-Hedge Algebras Model in Knowledge Reasonings for Robot Coverage Path Planning and Its Applications, Hai Van Pham, **Farzin Asadi**, Nurettin Abut, İsmet Kandilli, Applied Sciences, 9 May 2019.

A18 (SCIE)- Kharitonov's theorem: A good starting point for robust control, **Farzin Asadi**, Nurettin Abut, The International Journal of Electrical Engineering & Education, 13 March 2019.

A19 (SCIE)- A step down nesting type ac-ac converter combined with voltage equalizers and switched capacitor simple converters, Kei Eguchi, Ratanaubol Rubpongse, Akira Shibata, Takaaki Ishibashi, **Farzin Asadi**, Energy Reports, 22 Nov 2019.

A20 (SCIE)- Design of a dual input cross connected charge pump utilizing scavenged energy, Kei Eguchi, Yutaka Kozono, Takaaki Ishibashi, **Farzin Asadi**, Energy Reports, 22 Nov 2019.

A21 (SCIE)- The development of a step down switched capacitor inverter without flying capacitors and full bridge circuits, Kei Eguchi, Hiroto Abe, Takaaki Ishibashi, **Farzin Asadi**, Energy Reports, 22 Nov 2019.

A22 (Elsevier (Scopus))- The Development of an LED Lighting Circuit Using High Gain Buck-Boost Converters, Kyoka Kuwahara, **Farzin Asadi**, Takaaki and Kei Eguchi, International Journal of Electrical and Electronic Engineering & Telecommunications, Vol. 8, No. 5, September 2019.

A23 (Elsevier (Scopus))- A Small DC-AC Inverter by Using Cross-Connected Charge Pumps, Haruka Fujisaki, **Farzin Asadi**, Takaaki Ishibashi, and Kei Eguchi, International Journal of Electrical and Electronic Engineering & Telecommunications, Volume 8, No. 5, September 2019.

A24 (SCIE, Scopus)- Reduction of Inrush Current in a Shockwave Non-Thermal Food Processing System Using an Exponential Clock Pulse Generator, Kei Eguch, **Farzin Asadi**, Akira Shibata, Hiroto Abe, Ichirou Oota, Sustainability, vol. 12, No. 15, July 2020.

A25 (SCIE)- Remote Monitoring and Alert System of HV Transformer Based on FMEA, **Farzin Asadi**, Satee Phumpho, Sawai Pongswatd, Energy Reports, Dec 2020.

A26 (SCIE)- Implementation of Inductor-less 13-Level Inverter Topology with Reduced Number of Required Component, Kei Eguchi, Hassan Bevrani, Qobad Shafiee, Wanglok Do, **Farzin Asadi**, Energy Reports, Dec 2020.

A27 (SCIE)- A Hybrid LED Sink Driver Using a Nesting-Type Switched-Inductor/Switched-Capacitor Buck-Boost Converter, Kei Eguchi, Hassan Bevrani, Qobad Shafiee, Akira Shibata, **Farzin Asadi**, Energy Reports, Dec 2020.

A28 (SCIE)- Design of a Multi-Input Single-Output Step-Up AC/DC Converter with Bipolar Structure, Kei Eguchi, Daigo Nakashima, Akira Shibata, **Farzin Asadi**, Energy Reports, Dec 2020.

A29 (SCIE)- Design and Analysis of an Inductor-less Cross-Coupled Voltage Equalizer, Kei Eguchi, Akira Shibata, Wanglok Do, **Farzin Asadi**, Energy Reports, Dec 2020.

B. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitaplarında (proceedings) basılan bildiriler:

B1- Comparison of Different DC Motor Modeling Techniques, **Farzin Asadi**, Nurettin Abut, Mehmet Keskin Kilic, 1st International Turkish World Engineering and Science Congress, Antalya, Turkey.

B2- Developing a Simple Method for Capacitors ESR Measurements, **Farzin Asadi**, Nurettin Abut, Üzeyir AKÇA, National Conference on Energy Conversion, Elazığ, Turkey.

B3- Developing a Software for Analyzing and Designing Charge Pump Based Boost Converters, **Farzin Asadi**, Nurettin Abut and Mehmet Keskin Kiliç, First international conference on energy systems engineering, Karabuk, Turkey.

B4- Experimental Evaluation of Water Contamination in a NonThermal Food Processing System Utilizing an Underwater Shockwave, Kei Eguchi, **Farzin Asadi**, Hiroto Abe and Ichirou Oota, 7th International Conference on Advances in Science, Engineering, Technology and Natural Resources(ASETNR-17), Pattaya, Thailand.

B5- A Multi-Input Cross-Connected Charge Pump for Mobile Applications, Kei Eguchi, **Farzin Asadi**, Takaaki Ishibashi, Ichirou Oota, 6th IIAE International Conference on Industrial Application Engineering, Okinawa, Japan.

B6- Design of a Cross-Connected Charge Pump for Energy Harvesting Systems, K Eguchi, H Fujisaki, **Farzin Asadi**, I Oota, 6th International Conference on Power Science and Engineering (ICPSE 2017), Petersburg, Russia.

B7-(Best Paper Award) Development of a Simple Direct SC AC-AC Converter Using Cascade Connection, Kei Eguchi, **Farzin Asadi**, Hiroto Abe, Takaaki Ishibashi and Hirofumi Sasaki, 13th International Conference on Innovative Computing, Information and Control (ICICIC 2018), to be held in Lianyungang, China.

B8- A High Voltage Gain SC DC-DC Converter Based on Cross-Connected Fibonacci-Type Converter, Haruka Fujisaki, Sawai Pongwatd, **Farzin Asadi**, Kei Eguchi, The Fourth International Conference on Engineering, Applied Sciences and Technology (ICEAST 2018), Phuket, Thailand.

B9- Experiment of a High Voltage Gain SC DC-DC Converter Based on Cross-Connected Fibonacci-Type Converter, Rubpongse Ratanaubol, **Farzin Asadi**, Do Wanglok and Kei Eguchi, 13th International Conference on Innovative Computing, Information and Control (ICICIC2018), Lianyungang, China, August 20-23, 2018.

B10- Remote Monitoring and Alert System of HV Transformer Based on FMEA, **Farzin Asadi**, Satee Phumpho, Sawai Pongswatd, 7th International Conference on Power and Energy Systems Engineering (CPESE 2020).

B11- Implementation of Inductor-less 13-Level Inverter Topology with Reduced Number of Required Component, Kei Eguchi, Hassan Bevrani, Qobad Shafiee, Wanglok Do, **Farzin Asadi**, 7th International Conference on Power and Energy Systems Engineering (CPESE 2020).

B12- A Hybrid LED Sink Driver Using a Nesting-Type Switched-Inductor/Switched-Capacitor Buck-Boost Converter, Kei Eguchi, Hassan Bevrani, Qobad Shafiee, Akira Shibata, **Farzin Asadi**, 7th International Conference on Power and Energy Systems Engineering (CPESE 2020).

B13- Design of a Multi-Input Single-Output Step-Up AC/DC Converter with Bipolar Structure, Kei Eguchi, Daigo Nakashima, Akira Shibata, **Farzin Asadi**, 7th International Conference on Power and Energy Systems Engineering (CPESE 2020).

B14- Design and Analysis of an Inductor-less Cross-Coupled Voltage Equalizer, Kei Eguchi, Akira Shibata, Wanglok Do, **Farzin Asadi**, 7th International Conference on Power and Energy Systems Engineering (CPESE 2020).

B15- Design of an LED Sink Driver Using a Switched-Inductor and Switched-Capacitor Buck-Boost Converter with High Voltage Gains, IEEE 2nd International Conference on Smart Power & Internet Energy Systems

B16- Design of an Inductor-less Step-Down AC/AC Converter Combined with a Symmetrical-Type Converter and Ladder-Type Converters, IEEE 2020 The 3rd International Conference on Power and Energy Applications

B17- Design of an inductor-less direct AC-AC converter realizing 1/4x and 4x conversion, Kei Eguchi, **Farzin Asadi**, K Kuwahara and I Oota, Journal of Physics: Conference Series, 2018.

B18- A Hybrid LED Sink Driver Combining a Buck-Boost Converter and a Switched-Capacitor Step-Up Converter with Nested Topology, Kei Eguchi, Akira Shibata, Wanglok Do, **Farzin Asadi**, Journal of Physics: Conference Series, 2021.

C. Yazılan ulusal/uluslararası kitaplar veya kitaplardaki bölümler:

C1. Yazılan ulusal/uluslararası kitaplar:

C1.1- Simulink ve Waijung blokset ile ST mikrodenetleyicilerin programlaması ve kontrol, **Farzin Asadi**, Nurettin Abut, Umuttepe yayınevi, (ISBN: 978-605-2012-15-4), 2017.

C1.2- Güç electroniği devrelerinin PSIM ile simülasyonu, **Farzin Asadi**, Nurettin Abut, Umuttepe yayınevi, (ISBN: 978-605-2012-30-7), 2018.

C1.3- Dynamics and control of DC-DC converters, **Farzin Asadi**, Kei Eguchi, Morgan & Claypool, (ISBN: 978-168-1732-98-5), 2018.

C1.4- Güç ekelectroniği devrelerinin MATLAB/Simulink ile simülasyonu, **Farzin Asadi**, Nurettin Abut, Umuttepe yayınevi, (ISBN: 978-605-2012-65-9), 2018.

C1.5- Güç Elektroniği, **Farzin Asadi**, Umuttepe yayınevi, (ISBN: 978-605-2012-68-0), 2018.

C1.6- Elektriksel ölçme ve ölçüm cihazları, **Farzin Asadi**, Nurettin Abut, Umuttepe yayınevi, (ISBN: 978-605-2012-73-4), 2018.

C1.7- Robust control of DC-DC converters: The Kharitonov's theorem approach, **Farzin Asadi**, Morgan & Claypool, (ISBN: 978-168-1734-14-9), 2018.

C1.8- Computer techniques for dynamic modelling of DC-DC power converters, **Farzin Asadi**, Morgan & Claypool, (ISBN: 978-168-1734-19-4), 2018.

C1.9- Modeling Uncertainties in DC-DC Converters with MATLAB and PLECS, **Farzin Asadi**, Sawai Pongswatd, Kei Eguchi, Ngo Lam Trung, Morgan & Claypool, (ISBN: 978-168-1734-39-2), 2018.

C1.10- Feedback control systems: MATLAB/Simulink approach, **Farzin Asadi**, Robert E. Bolanos, Jorge Rodriguez, Morgan & Claypool, (ISBN: 978-168-1735-41-2), 2019.

C1.11- Simulation of power electronics converters using PLECS, **Farzin Asadi**, Kei Eguchi, (ISBN:978-0128173640), Elsevier, 2019.

C1.12- State space control systems: The MATLAB/Simulink approach, **Farzin Asadi**, (ISBN: 978-1681739786), Morgan & Claypool, 2020.

C2. Yazılan ulusal/uluslararası kitaplardaki bölümler:

C2.1.

D. Ulusal hakemli dergilerde yayımlanan makaleler:

D1. On the Extraction of Input and Output Impedance of PWM DC-DC Converters, **Farzin Asadi**, Kei Eguchi, Balkan Journal of Electrical and Computer Engineering, Vol. 7, No. 2, April 2019.

E. Ulusal bilimsel toplantılarda sunulan ve bildiri kitaplarında basılan bildiriler:

E1.

F. Sanat ve tasarım etkinlikleri:

F1.

G. Diğer yayınlar:

(Yukarıdaki maddelerde yer alan başlıklardaki kategorilere girmeyen ve belirtilmek istenen tüm eserler bu maddenin altında belirtilecektir.)

G1- A Method for System Order Reduction based on Genetic Algorithm and FFT, **Farzin Asadi**, Nurettin Abut, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering.

G2- A Simple Method for Power Diodes Parameter Measurement, **Farzin Asadi**, Nurettin Abut, International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering.

G3- A Simple Method for a Capacitor's ESR Measurement, **Farzin Asadi**, Nurettin Abut

G4- Flyback transformer modelling, **Farzin Asadi**, Nurettin Abut, European Passive Components Institute

G5- Controller Design for DCM-Operated Boost Converter Using System Identification, **Farzin Asadi**, Nurettin Abut

G6- Developing a MATLAB toolbox for MWM buck boost converter analysis and design, **Farzin Asadi**, Nurettin Abut, Journal of Electronic Research and Application.

G7- Comparison of Different DC Motor Modeling Techniques, **Farzin Asadi**, Kei Eguchi, Journal of Electronic Research and Application

H. Patent:

H1- Mekanik Yüksek Kazançlı Doğru Gerilim Yükseltici Dönüştürücü Sistemi, **Farzin Asadi**, Türk patent enstitüsü, 2020.