Curriculum Vitae

Asst. Prof. Dr. Ali Hussein Abduljabbar

Mustansiriyah University – College of Engineering
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PERSONAL SUMMARY:

- Dr Ali . is currently lecturing in the Electrical Eng1neering Department. He is delivering thought courses and Lab sessions. His fields of research interest are. power electronics converters, Grid Synchronisation, PFC, wireless charging and induction heating.

EDUCATION:

- Ph.D. from university of Plymouth, UK 2018.
- M.Sc. in electrical engineering from university of Technology, Iraq, 2002.
- B.Sc. in electrical engineering from university of Technology, Iraq, 1999.

ACADEMIC HONORS AND AWARDS:

- Best paper award from 2015 IEEE 11th International Conference on Power Electronics and Drive Systems, Sydney, Australia.

ACADEMIC /TEACHING EXPERIENCE:

- Lecturer in the electrical engineering department since 2005.

COURSES TAUGHT:

Undergraduate	Graduate
Electrical DC machines Electrical AC machines Fundamentals of AC machines	

PROFESSIONAL AFFILIATIONS:

- Member of Iraqi engineers union

PUPLICATIONS:

- Investigating low order harmonics of sinusoidal pulse width modulation with voltage closed loop control, AH Al-Omari, SAl-Zubaidi, Indonesian Journal of Electrical Engineering and Computer Science 26 (3), 2022.
- High efficiency step-up converter using single switch with coupled inductors, AH AlL-Omari, S Al-Zubaidi, Indonesian Journal of Electrical Engineering and Computer Science 25 (2),2022.
- Method and system for DC voltage converting, US patent No. 10998819, 2021.
- A Comparative Study of Capacitive Couplers in Wireless Power Transfer, M Al-Saadi, M AL-QAISI, L Al-Bahrani, L Al-Bahrani, AH Al-Omari, Conference: International Symposium on Fundamentals of Electrical Engineering (ISFEE), 2018.
- Inductive power transfer for charging the electric vehicle batteries, M ALSaadi, A Al-Omari, S Al-Chlaihawi, A Al-Gizi, A Cr_ciunescu, Electrotehnica, Electronica, Automatica 66 (4), pp 29-20, 2018.
- Analysis and Comparison of Resonance Topologies in 6.6kW Inductive Wireless Charging for Electric Vehicles Batteries, M ALSaadi, A IBRAHIM, AH Al-Omari, The 12th International Conference Interdisciplinarity in Engineering. INTER-ENGA: Tirgu-Mures, Romania, 26, 2018.

- Contributions to Converters in Single Phase Distributed Photovoltaic Systems, A Al-Omari, Plymouth University, PhD thesis, 2018.
- Dc-dc converter, US patent no. 15543345, 2017.
- A novel topology for single phase active PFC circuit, AH AL-Omari, M Ambroze, MZ Ahmed, 2017 IEEE Industrial and Commercial Power Systems Europe (EEEIC/ I&CPS Europe), 2017.
- Reduced Size Single Switch Power Factor Correction Circuit, H Kabily, H Al-Bayaty, Global Journals of Research in Engineering 17 (5), PP 7-14, 2017.
- An adaptable interleaved DC-DC boost converter, S MacVeigh, AH Al-Omari, J Welsh, MZ Ahmed, P Davey 2016 IEEE 16th International Conference on Environment and Electrical 2016.
- A new method to analyse eddy current loss in an integrated magnetic structure for boost converter, AH Al-Omari, S MacVeigh, MZ Ahmed, P Davey, M Blackler, J Welsh, 2016 IEEE Transportation Electrification Conference and Expo, Asia-Pacific, 2016.
- A new method for grid-tie inverters synchronization based on RDFT with linear approximation, A H Al-Omari, MZ Ahmed, DT Bearne, 2015 JEEE 11th International Conference on Power Electronics and Drive, 2015.
- Design and Implementation of An Induction Furnace, IM Abdulbaqi, AHA Kadhim, AH Abdul-Jabbar, Diyala Journal of Engineering Sciences 8 (1), 64-82, 2015.
- Design and Simulation of Control Circuit for TCSC Based MATLAB Simulink, AH Abdul-jabbar, M K Edan, Dr J A Mohammed, Journal of Engineering and Development 15 (4), 106-122, 2011.
- Variable voltage-frequency control of a single-phase induction motor driven by SHEPWM inverter, AH Abdul-Jabbar, Journal of Engineering 15 (2), PP 3572-3582, 2009.
- A High-Quality Output Voltage for HEPWM of Single-Phase AC Motor Drive, JA Mohammed, AH Jabbar, M K Edan, Engineering and Technology Journal 27 (5), 2009.

Signature Head of Department

أ.م.د. ياسين يوسف محمد
رئيس قسم الهندسة الكهربائية
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Signature Vice Dean

الأستاذ المساعد الدكتور
عادل خالد جاسم
معاون العميد للشؤون العلمية

السيرة الذاتية

أ.م.د.علي حسين عبدالجبار

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ملخص تعريفي:

- يحاضر د علي حسين في قسم الهندسة الكهربائية في كلية الهندسة منذ عام 2005, قدم خلال فترة تدريسه في الكلية عدد من المحاضرات في الجانب النظري والمختبري. تتلخص مجاله بحوثه حول الكترونيات القدرة ومنها مفاعلات القدرة الكهربائية ذات التردد العالي, العاكسات المرتبطة بالشبكة, تحسين معامل القدرة, الشحن اللاسلكي و التسخين الحثي.

الشهادات الدراسية:

- دكتوراه في الهندسة الكهربائية من جامعة بليموث, المملكة المتحدة 2018.
- ماجستير هندسة كهربائية من الجامعة التكنلوجية، العراق 2002.
- بكالوريوس هندسة كهربائية من الجامعة التكنلوجية، العراق 1999.

الجوائز والتكريم الأكاديمي

- أفضل بحث قدم في IEEEاستراليا 2015

الخبرة الأكاديمية والتدريس:

- تدريسي في تخصص الهندسة الكهربائية منذ عام 2005

المقررات الدراسية التي تم تدريسها:

الدراسات العليا	الدراسات الأولية
	محركات التيار المستمر محركات التيار المتناوب أسس الهندسة الكهربائية

الأنتساب المهني او الجمعيات:

- عضو نقابة المهندسين المهندسين العراقية

المنشورات العلمية

- Investigating low order harmonics of sinusoidal pulse width modulation with voltage closed loop control, AH Al-Omari, S Al-Zubaidi, Indonesian Journal of Electrical Engineering and Computer Science 26 (3), 2022.
- High efficiency step-up converter using single switch with coupled inductors, AH AL-Omari, S Al-Zubaidi, Indonesian Journal of Electrical Engineering and Computer Science 25 (2),2022.
- Method and system for DC voltage converting, US patent No. 10998819, 2021.
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- Analysis and Comparison of Resonance Topologies in 6.6kW Inductive Wireless Charging for Electric Vehicles Batteries, M ALSaadi, A IBRAHIM, AH Al-Omari, The 12th International Conference Interdisciplinarity in Engineering. INTER-ENGA: Tirgu-Mures, Romania, 26, 2018.
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- A novel topology for single phase active PFC circuit, AH AL-Omari, M Ambroze, MZ Ahmed, 2017 IEEE Industrial and Commercial Power Systems Europe (EEEIC/ I&CPS Europe), 2017.
- Reduced Size Single Switch Power Factor Correction Circuit, H Kabily, H Al-Bayaty, Global Journals of Research in Engineering 17 (5), PP 7-14, 2017.
- An adaptable interleaved DC-DC boost converter, S MacVeigh, AH Al-Omari, J Welsh, MZ Ahmed, P Davey 2016 IEEE 16th International Conference on Environment and Electrical 2016.
- A new method to analyse eddy current loss in an integrated magnetic structure for boost converter, AH Al-Omari, S MacVeigh, MZ Ahmed, P Davey, M Blackler, J Welsh, 2016 IEEE Transportation Electrification Conference and Expo, Asia-Pacific, 2016.
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- Design and Simulation of Control Circuit for TCSC Based MATLAB Simulink, AH Abdul-jabbar, M K Edan, Dr J A Mohammed, Journal of Engineering and Development 15 (4), 106-122, 2011.
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- A High-Quality Output Voltage for HEPWM of Single-Phase AC Motor Drive, JA Mohammed, AH Jabbar, M K Edan, Engineering and Technology Journal 27 (5), 2009.

توقيع معاون العميد

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توقيع رئيس القسم

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