Tareq S. El-Hasan

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PhD in Electrical Engineering/ Power & Machines

Academic Rank: Associate Professor

Membership:

1	Jordan Engineering Association

Qualifications:

1	PhD Electrical Engineering, Jan 2003, University Of Hertfordshire, UK.
2	BEng Electrical Engineering, Nov 1998, Mu'tah University, Jordan

Professional Objective(s):

Teaching Experience:

#	From	to	
1	1/3/2007	1/3/2010	Lecturer in Engineering Defense Technology, King Abdullah II Design & Development Bureau (KADDB) in collaboration with Cranfield University in the UK.
2	1/3/2010	31/8/2010	Research Fellow at Power & Sensor Group for EU funded Project, Cranfield University, UK.
3	1/9/2010	16/10/2016	Electrical Engineering Department, Zarqa University, Jordan.
4	17/10/2016	present	Associate prof. energy engineering dept., ZU

Publications:

#	Title	Publisher	Year/ Issue (Vol/No)
1.	**T. S. El-Hasan, "**Development of Automotive Permanent Magnet Alternator with Fully Controlled AC-DC Converter"	Energies ISSN 1996-1073 doi:10.3390/en11020274	11 (2), 2018.
2.	Patrick C. K. Luk, **T. S. El-Hasan,** "Toward an Intelligent High Frequency AC Distributed Power System: Part II; Analytical Modelling and Experimental Realization".	International Review of Electrical Engineering (**IREE**), ISSN: 1827-6660,	Vol. 11, No. 6, Nov 2016.
3.	**T. S. El-Hasan**, Mohammad A.K.Alia, Wasif A.Z Saluos, Ahmad M. Al Janaiedeh, "Arduino and Labview Based Control For Efficient Drive of Cooling Fan System".	Research Journal of Applied Sciences, Engineering and Technology (**RJASET**), ISSN: 2040-7459	13, No. 8, Nov 2016.
4.	Patrick C. K. Luk, **T. S. El-Hasan,** "Toward an Intelligent High Frequency AC Distributed Power System: Part I; Conceptual Design".	International Review of Electrical Engineering (**IREE**), ISSN: 1827-6660	Vol. 11, No. 5, Oct 2016.
5.	Modelling, Simulation and Experimentation of PM Spring	International Review on Modelling and Simulations (IREMOS)	Vol. 9, No. 2, 2016.
6.	Application of Permanent Magnets in Suspension and Recoil Buffer Systems.	Journal of Innovative Systems Design and Engineering, USA	Volume 6, No. 2 (2015), Page(s): 1 – 14.
7.	Development of a Low Cost Sensored Control for High-Speed Axial Flux Permanent Magnet Machines.	Journal of Innovative Systems Design and Engineering, USA	Volume 5, No 10 (2014), Page(s): 7 – 16.
8.	Rotor Integrity Design for a High-Speed Modular Air-Cored Axial-Flux Permanent-Magnet Generator.	IEEE Transactions on Industrial Electronics, USA	Volume 58, Issue: 9, 2011, Page(s): 3848 – 3858.
9.	Magnet topology optimization to reduce harmonics in high-speed axial flux Generators.	IEEE Transactions on Magnetics, USA	Volume 39, Issue 5, Sept. 2003 Page(s): 3340 – 3342.

10.	Modular design of high-speed permanent-magnet axial-flux generators.	IEEE Transactions on Magnetics, USA	Volume 36, Issue 5, Sep 2000, Page(s): 3558 – 3561.

Conferences:

#	Paper Title	Organizing Institution	Conference
1.	Internet of Thing (IoT) Based Remote Labs in Engineering	IEEE	2019 6th International Conference on Control, Decision and Information Technologies (CoDIT), Paris, France.
2.	ENHANCED ATMOSPHERIC MOISTURE SCAVENGING APPARATUS (EAMSA) POWERED BY PHOTOVOLTAIC (PV) SOLAR SYSTEM	SGEM	17th International Multidisciplinary Scientific GeoConference SGEM 2017, Vienna, Austria.
3.	Development of Axial Flux Permanent Magnet Generator for Direct Driven Micro Wind Turbine.	IEEE	IEEE 5th International Conference on Renewable Energy Research and Applications (ICRERA) 2016, Birmingham, UK
4.	Inductance Determination for Air-Cored Permanent Magnet Axial Flux Machine.	Omics International Group	Global Summit on Electronics and Electrical Engineering Valencia, Spain. 3 – 5 Nov 2015.
5.	Manufacturing and Assembly Processes of High Speed Axial Flux Permanent Magnet Rotor Prototype	WSEAS	The 9th International Conference on Energy & Environment (EE '14), Geneva, Switzerland. 29 – 31 Dec 2014
6.	Rotor Eddy Current Determination Using Finite Element Analysis for High-Speed Permanent Magnet Machines , Page(s): 885 – 889.	IEEE	IEEE 23rd International Symposium on Industrial Electronics (ISIE), 2014, Istanbul, Turkey. 1- 4 Jun 2014.
7.	Sensored control for High-Speed Axial Flux Permanent Magnet Machines, Page(s): 1771 – 1776.	IEEE	Fourth International Conference on Power Engineering, Energy and Electrical Drives

			(POWERENG2013) Istanbul, Turkey. 13- 17 May 2013.
8.	Design of a Single Stage Supersonic Reluctance Coilgun, Page(s): 964 – 969.	IEEE	IEEE Pulsed Power Conference (PPC2011), Chicago, USA. 19 – 23 Jun 2011.
9.	Integrated design for a high-speed permanent magnet axial flux generator, Page(s). 1083–1084.	IEEE	Magnetics Conference INTERMAG Asia 2005, Hong Kong. 4–8 April 2005.
10.	Three-Dimensional FE Analysis of Disc type High-Speed PM generators. Digest No. 1235. Page(s) HB-03.	IEEE	INTERMAG2003, Boston, USA. Sep 2003, Sep 2003.
11.	Back Iron Design for High Speed PM Axial Flux Generators, Digest No. 201. Page(s): HB-01	IEEE	INTERMAG2003, Boston, USA. Sep 2003, Sep 2003.
12.	Attendance	KADDB	Design Challenge Conference, Amman, Jordan. 15-17 May 2007
10.	Attendance	Figes, Turkey	Conference for Computer Aided Engineering & System Modeling, , Bolu, Turkey. 13 – 15 Sep 2006.
11.	Attendance	RPAS	Unmanned Vehicle System (UVS) International Conference, Paris, France. 6 – 8 Jun 2005.
12.	Attendance	IEEE	INTERMAG 2002 IEEE International Magnetic Conference, Amsterdam, Netherlands. 28 Apr – 2 May 2002.

Community Service Activities

#	Duration	Activity

1	2019 – to present	University committee
2	2012 - present	College council
3	2018 - present	E-Website development
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Personal Information

Name				
Place and Date of Birth	Kuwait 3/3/1967			
Nationality	Jordanian			
Marital Status	Married			
Address	Amman			
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