

Curriculum Vitae

1. Name Hassan A.N. Hejase

2. Academic Rank Associate Professor

3. Education

Field	Institution	Date	Degrees
Electrical Engineering	Syracuse University, NY, USA	1983- 1987	PhD
Electrical Engineering	Tecnológico de Monterrey, Campus Monterrey, Monterrey, Mexico	1980-1982	Master
Industrial Electrical Engineering	Instituto Tecnológico Regional de la Laguna, Torreon, Mexico	1977- 1980	Bachelor

4. Number of Years of Service on this faculty: 18 (1996- present)

5. Other Related Experience

March 2013-	Advisor to the Vice Chancellor, UAE University, UAE
2011- 2013	EE Graduate Program coordinator, UAE University, UAE
2000- 2010	Chairman of EE Dept., UAE University, UAE
1998 - present	Associate Professor, EE Dept., UAE University, UAE
1996 –1998	Assistant Professor, EE Dept., UAE University, UAE
1995- 1996	Part-time Lecturer, ECE Dept., AUB, Beirut, Lebanon
1993- 1995	Research Associate Professor, ITESM-Campus Estado De Mexico, Mexico
1987- 1993	Assistant Professor, EE Dept., University of Kentucky, KY, USA
1984 - 1987	Research Assistant, ECE Dept., Syracuse University, NY, USA
Jan-May 1984	Teaching Assistant, ECE Dept., Syracuse University, NY, USA
1982-1983	Technical & Marketing Engineer, PROLEC Transformers, Monterrey, Mexico
1981-1982	Electrical Design Engineer, HYLSA Steel Co., Monterrey, Mexico
1980-1981	Instructor, Depts. of Math, Physics and Civil Eng., ITESM, Monterrey, Mexico

6. Publications (Last five years)

Journal papers:

1. **Hassan A.N. Hejase**, Maitha H. Al-Shamisi and Ali H. Assi, "Modeling of Global Horizontal Irradiance in the United Arab Emirates with Artificial Neural Networks," *Energy*, vol. 77, pp. 542-552, 2014.
2. Maitha Al-Shamisi, Ali Assi, and **Hassan Hejase**, "Using Artificial Neural Networks for the Prediction of Global Solar Radiation in Abu Dhabi City – UAE," *J. Sol. Energy Eng.*, vol. 136, no. 2, 024502 (Nov 26, 2013), doi: 10.1115/1.4025826.
3. **Hassan A. N. Hejase** and Ali H. Assi, "Global and Diffuse Solar Radiation in the United Arab Emirates," *International Journal of Environmental Science and Development*, vol. 4, no. 5, pp. 470-474, Oct. 2013 (ISSN: 2010-0264).
4. Maitha H. Al-Shamisi, Ali H. Assi and **Hassan A.N. Hejase**, "Artificial Neural Network Modeling of Global Solar Radiation," *International Journal of Green Energy*, vol. 10, no. 5, pp. 443-456, 2013.
5. **Hassan A. N. Hejase** and Ali H. Assi, "Time-Series Regression Model for Prediction of Mean Daily Global Solar Radiation in Al-Ain, UAE," *ISRN Renewable Energy*, vol. 2012, Article ID 412471, 11 pages, 2012. doi:10.5402/2012/412471.

6. **Hassan Hejase**, Saleh S. Hayek, Shahnaz Qadri, and Yousef Haik, "MnZnFe Nanoparticles for Self-Controlled Magnetic Hyperthermia," *Journal of Magnetism and Magnetic Materials*, vol. 324, no. 22, pp. 3620-3628, November 2012.
7. **Hassan Hejase**, Saleh S Hayek, Shahnaz Qadri, and Yousef Haik, "Self-Controlled Hyperthermia Characteristics of ZnGdFe Nanoparticles," *IEEE Transaction on Magnetics (TMAG-11-11-0692)*, vol. 48, no. 9, pp. 2430 – 2439, Sept. 2012.
8. Yousef Haik, Basel al-Ramadi, Bashar Issa, Shahnaz Qadri, Saleh Hayek and, **Hassan Hijaze**, "Multifunctional Nanoparticles for Imaging Guided Interventions", *Nature precedings*, hdl: 1010/npre. 2008.2190.1, August 2008.

Book Chapters:

1. M. Nabag, A. Fardoun, **H. Hejase**, and A. Al-Marzouqi, "Review of Dynamic Electric Circuit Models for PEM Fuel Cells," In: M. O. Hamdan, Hassan A.N. Hejase, Hassan M. Noura and Abbas A. Fardoun (Eds.), *ICREGA'14- Renewable Energy: Generation and Applications*, Springer Proceedings in Energy, Chapter 6, pp. 59-71, Springer Publishers, 2014. DOI 10.1007/978-3-319-05708-8_6.
2. **Hassan A.N. Hejase**, Ali H. Assi and Maitha H. Al Shamisi, "Use of Empirical Regression and Artificial Neural Network Models for Prediction of Global Solar Radiation in Dubai, UAE." In: Dincer, Ibrahim; Colpan, Can Ozgur; Kadioglu, Fethi (Eds.) *Causes, Impacts, and Solutions to Global Warming*, pp. 61- 86, Springer Publishers, 2013. ISBN 978-1-4614-7587-3, DOI 10.1007/978-1-4614-7588-0_4.
3. **Hassan A.N. Hejase**, Ali H. Assi, "MATLAB-assisted regression Modeling of Mean Daily Global Solar Radiation in Al-Ain, UAE." In: Assi AH (Ed) *Engineering Education and Research using MATLAB*, ISBN 978-953-307-656-0, Chapter 8, pp. 195-218, Intech publisher, 2011.
4. Maitha H. Al-Shamisi, Ali H. Assi, **Hassan A.N. Hejase**, "Using MATLAB to Develop Artificial Neural Network Models for Predicting Global Solar Radiation in Al Ain City – UAE." In: Assi AH (Ed) *Engineering Education and Research using MATLAB*, ISBN 978-953-307-656-0, Chapter 9, pp. 219-238, Intech publisher, 2011.
5. Ali H. Assi, Maitha Al-Shamisi, and **Hassan A.N. Hejase**, "MATLAB GUI Application for Teaching Electronics" published in *Engineering Education and Research Using MATLAB*, ISBN 978-953-307-656-0, edited by Ali H. Assi, SCIYO, 2011.

Books:

1. H. J. Hejase, A. J. Hejase and **H. A.N. Hejase**, *Quantitative Methods for Decision Makers: Management Approach*, Dar Sader Publishers, Beirut, Lebanon, 2012, ISBN: 978-9953-13-753-7.

Conference papers:

1. Hassan A.N. Hejase and Ali H. Assi, "Estimation of Global and Diffuse Horizontal Irradiance in Abu Dhabi, United Arab Emirates," accepted to the XIII World Renewable Energy Congress (WREC XIII), London, UK, August 3-8, 2014.
2. M. Nabag, A. Fardoun, H. Hejase, and A. Al-Marzouqi, "Review of Dynamic Electric Circuit Models for PEM Fuel Cells," accepted to the 3rd International Conference on Renewable Energy: Generation and Applications (ICREGA 2014), Al-Ain, UAE, March 2-5, 2014.
3. Ali H. Assi, Hassan A.N. Hejase, "Research by Undergraduate Engineering Students," *Proceedings of the 9th World Congress on Engineering Education (WCEE2013)*, Beirut Lebanon, Oct. 24- 25, 2013.
4. Hassan A.N. Hejase, Ali H. Assi, H. M. Noura and Rabih Rammal, "Enhancing Awareness on Renewable Energy Through Students' Competitions– Case Study, UAE University," *Proceeding of the International Conference on Renewable Energy Research and Applications (ICRERA)*, Madrid, Spain, Oct. 20-23, 2013 (ISBN: 978-1-4799-1464-7/13).
5. Ali Assi , Maitha Al-Shamisi , Hassan Hejase and Ahmad Haddad, "Prediction of Global Solar Radiation in UAE Using Artificial Neural Networks," *Proceeding of the International*

- Conference on Renewable Energy Research and Applications (ICRERA), Madrid, Spain, Oct. 20-23, 2013 (ISBN: 978-1-4799-1464-7/13).
6. Hassan A.N. Hejase and Ali H. Assi, "Global and Diffuse Solar radiation in The United Arab Emirates," International Conference on Energy and Agriculture Engineering (ICEAE2013), Hong Kong, July 5-7, 2013.
 7. Ali Assi, Ahmad Hassan, Maitha Al-Shamisi and Hassan Hejase, "Removal of Air Blown Dust from Photovoltaic Arrays Using Forced Air Flow of Return Air from Air Conditioning Systems," Proceedings of the International Conference on Renewable Energies for Developing Countries (REDEC 2012), November 28-29, 2012, Beirut, Lebanon.
 8. Ali Assi, Maitha Al Shamisi and Hassan Hejase, "MATLAB Tool for Predicting the Global Solar Radiation in UAE," proceedings of the International Conference on Renewable Energies for Developing Countries (REDEC 2012), November 28-29, 2012, Beirut, Lebanon.
 9. Maitha H. Al-Shamisi, Ali H. Assi, and Hassan A.N. Hejase, "Using Artificial Neural Networks to Predict Global Solar Radiation in Dubai City (UAE)," proceedings of the 2nd International conference on Renewable Energy: Generation and Applications (ICREGA 2012)-CD-ROM, March 4-7, 2012, Al-Ain, UAE.
 10. Hassan A.N. Hejase, Ali H. Assi, and Maitha Al-Shamisi, "Comparison of Classical Regression and Artificial Neural Network Models for Prediction of Global Solar Radiation in Dubai, UAE," presented at the Global Conference on Global Warming (GCGW 2012), 8-12 July, 2012, Istanbul, Turkey.
 11. Ali H. Assi, Maitha H. Al-Shamisi, and Hassan A.N. Hejase, "Solar Radiation in UAE – A Comparison between Ground Station Measurements and Satellite Estimation," presented at the Global Conference on Global Warming (GCGW 2012), July 8-12, 2012, Istanbul, Turkey.
 12. M. Al Shamisi, A. Assi and H. Hejase, "Prediction of Global Solar Radiation in Abu Dhabi City – UAE." Proceedings of the 26th European Photovoltaic Solar Energy Conference and Exhibition, Hamburg, Germany, pp. 4328-4333, September 5-9, 2011. DOI: 10.4229/26thEUPVSEC2011-5BV.2.44, ISBN: 3-936338-27-2.
 13. Hassan A.N. Hejase and A. Assi, "Time-series Regression Model for Prediction of Monthly and Daily Average Global Solar Radiation in Al Ain City –UAE", Proceedings of the Global Conference on Global Warming (GCGW 2011)-CD-ROM, July 11-14, 2011, Lisbon, Portugal.

7. Membership of Scientific and Professional Societies

Member of IEEE

Registered engineer in the Lebanese engineering association.

Registered engineer in the Mexican engineering association.

8. Honors and Awards

First of graduating BS class at Laguna Institute of Technology, Mexico - 1980

"BEST STUDENT OF MEXICO" certificate by the Mexican Secretary of Education, 1980, for First rank in EE class.

9. Institutional and Professional service in the last five years

Advisor to the Vice Chancellor (March 2013- present)

Member of UAEU Executive Council (September 2013- present)

Member of UAEU Institutional Accreditation Steering Committee (September 2013- present)

Member of UAEU Khalifa Excellence Awards Committee (2013- 2014)

Member of Dean of Engineering Search Committee (2013-2014)

Acting Director of UAEU Alumni Affairs (March 2013- September 2013)

Member of UAEU Degree Programs Committee (2013- 2014)

EE Department Chairman (2000- 2010)

EE Graduate Program Coordinator (2011- 2013)

Member of College of Engineering Graduate Studies Committee (2011- 2013)

10. Professional development activities in the last seven years

- Chair of the 1st, 2nd and 3rd International Conference on Renewable Energy: Generation and Applications (ICREGA 2010, 2012 and 2014) held at UAEU Campus, Al-Ain.
- Chair of the 3rd, 4th and 5th Engineering Student Renewable Energy Competition (ESREC 2012, 2013 and 2014) Generation and Applications (ICREGA 2010, 2012 and 2014) held at UAEU Campus, Al-Ain.
- Head of EE ABET committee at EE Dept., UAE University, till 2010.
- Presented an invited talk at ICHT 2013, Muscat, Oman, Dec. 2-3, 2013.
- Presented papers at the following conferences:
 - WREC XIII, London, UK, Aug. 3-8, 2014
 - ICEAE2013, Hong Kong, July 5-7, 2013.
 - GCGW 2012, Istanbul, Turkey, July 8-12, 2012.
 - GCGW 2011, Lisbon, Portugal, July 11-14, 2011.
- Reviewer of numerous conference and journal papers.