

## **Curriculum Vitae (C.V.)**

Dr. Eng. Abou-Hashema Mostafa El-Sayed Ahmed  
Associate Professor of Electrical Power Engineering,  
Faculty of Engineering, Minia University,  
61519 El-Minia, Egypt



**Full Name:** Abou-Hashema Mostafa El-Sayed Ahmed  
**Family Name:** Ahmed  
**First Name:** Abou-Hashema  
**Title:** Head of Mechatronics and Industrial Robotics Program.  
Director of the Minia University National Center for Innovation and Entrepreneurship.

**Highest Scientific Qualification:** Ph.D. in Electrical Power Engineering from Faculty of Engineering, Minia University, 2002, El-Minia, Egypt (under the channel system which means Scientific Co-operation between Dresden University of Technology, Germany and Minia University, Egypt.)

**Current work:** Head of Mechatronics and Industrial Robotics Program-Faculty of Engineering, Minia University, Egypt.  
Director of the Minia University National Center for Innovation and Entrepreneurship.  
Councilor of the Minia University technology, innovation, and commercialization office

**Birth date:** 12/12/1970  
**Place of birth:** El-Minia, Egypt.  
**SEX:** Male  
**Martial status:** Married  
**E-mail:** [abouhashema@mu.edu.eg](mailto:abouhashema@mu.edu.eg) [dr\\_mostafa555@yahoo.com](mailto:dr_mostafa555@yahoo.com)

**Address:** Mechatronics and Industrial Robotics Program - Faculty of Engineering, Minia University, 61519 El-Minia, Egypt.  
**Tel:** +201006393625

### **Education Background:**

**1-Primary School:** Barmash primary school, Minia, Egypt. From September 1977 to May 1983.

- 2-Preparatory School:** Elqayat Prep. School, Minia, Egypt. From September 1983 to May 1986.
- 3-High School:** El-Edwa Secondary School, Minia, Egypt. From September 1986 to May 1989.
- 4-Under Graduate Level:** Minia University-Egypt, Faculty of Engineering, Department of Electrical Engineering. From September 1989 to May 1994.

**Scientific Qualifications:**

- 1- B.Sc of Electrical Engineering, 1994, Faculty of Engineering, Minia University, Egypt.
- 2- M.Sc in Electrical Engineering (Electrical Power), 1998, Faculty of Engineering, Minia University, Egypt.

**The Title of M.Sc Thesis is:**

“Power Conditioning and Harmonic Analysis of Renewable Energy-Source Output to Supply an Electric Device”.

- 3- Ph.D. in Electrical Power, 2002, Faculty of Engineering, Minia University under the channel system which means Scientific Co-operation between Dresden University of Technology, Germany and Minia University, Egypt.

**The Title of Ph.D. Thesis is:**

“Application of Computers in the Digital Protection of Renewable and Conventional Electrical Power System”

**Job Progress:**

- Demonstrator in Electrical Engineering Department, Faculty of Engineering, Minia University from 1994 to 1998.
- Assistant Lecturer in Electrical Engineering Department, Faculty of Engineering, Minia University from 1998 to 2000.
- Ph.D. student in Institute of Electrical Power Systems, Faculty of Electrical Engineering, Dresden University of Technology, Dresden, Germany from 2000 to 2002.
- Assistant Prof. in Electrical Engineering Department, Faculty of Engineering, Minia University from 2002 to 2004.
- Assistant Prof. in Electrical Engineering Department, Faculty of Engineering, Omar El-Mokhtar University, Libya from 2004 to 2006.
- Assistant Prof. in Electrical Engineering Department, Faculty of Engineering, Minia University from 2007 to June, 2008.

- 6/2008 – 9/2009 Visiting Researcher In Kyushu University, Japan.
- 2008 – 2011 Associate Prof. in Ritsumeikan Asia Pacific University, APU, Japan.
- 2011 till now Head of Mechatronics and Industrial Robotics Program, Faculty of Engineering, Minia University, Egypt.
- Associate Prof. in Electrical Engineering Department, Faculty of Engineering, Minia University from July 2015.
- Director of the Minia University National Center for Innovation and Entrepreneurship.

### **Academic achievements & list of papers**

#### **Attended the following Workshops:**

- 1- "Quality Assurance in Education", Minia University, 3-5 April, 2007
- 2- "Effective Presentation", Minia University, 9-10 January, 2010
- 3- "Management of the Research Team", Minia University, 16-17 January, 2010
- 4- "Behaviors of University Teaching Profession", Minia University, 23-24 January, 2010
- 5- "Scientific Publishing", Minia University, 26-27 January, 2010.
- 6- الادارة الجامعية
- 7- التقويم والقياس

#### **Attended the following conferences:**

- 1- The First Minia International Conference for Advanced Trends in Engineering (MICATE'99), Faculty of Engineering, Minia University, Egypt, 1999.
- 2- The Eighth International Middle East Power Systems Conference (MEPCON'2001), PES, IEEE, Department of Electrical Machines and Power Engineering, Faculty of Engineering, Helwan, Egypt, 2001.
- 3- The 2<sup>nd</sup> MINIA International Conference for ADVANCED TRENDS IN ENGINEERING, (MICATE'2002), Faculty of Engineering, Minia University, Minia, Egypt, 2002.
- 4- The Tenth International Middle East Power Systems Conference (MEPCON'2003), PES, IEEE, Department of Electrical Machines and Power Engineering, Faculty of Engineering, Port Fouad, Port Said, Egypt, 2003.
- 5- The 3<sup>rd</sup> MINIA International Conference for ADVANCED TRENDS IN ENGINEERING, (MICATE'2005), Faculty of Engineering, Minia University, Minia, Egypt, 2005.

- 6- Eleventh International Middle East Power Systems Conference (MEPCON'2006), PES, IEEE, Department of Electrical Engineering, Faculty of Engineering, Minia University, Minia, Egypt, 2006.
- 7- The First Egypt-Japan International Symposium on Science and Technology, Waseda University, Tokyo, Japan, 8-10 June 2008.
- 8- Kyushu island Joint Conference No. 20, Japan, September 2008.
- 9- Kyushu Island Joint Conference No. 21, Japan, September 2009.

**Participation in organizing the following conferences:**

- 1- The First Minia International Conference for Advanced Trends in Engineering (MICATE'99), Faculty of Engineering, Minia University, El-Minia, Egypt, 1999.
- 2- The 2<sup>nd</sup> MINIA International Conference for ADVANCED TRENDS IN ENGINEERING, (MICATE'2002), Faculty of Engineering, Minia University, El-Minia, Egypt, 2002.
- 3- The 3<sup>rd</sup> MINIA International Conference for ADVANCED TRENDS IN ENGINEERING, (MICATE'2005), Faculty of Engineering, Minia University, El-Minia, Egypt, 2005.
- 4- Eleventh International Middle East Power Systems Conference (MEPCON'2006), PES, IEEE, Department of Electrical Engineering, Faculty of Engineering, Minia University, El-Minia, Egypt, 2006.

**List of published papers**

- [1] H.H.EL-Tamaly, E.A.EL-Sayed and **Abo-H.M. EL-Sayed**, “ Optimum Operation of Different Types of Induction Motor Fed by PVPS”, AMSE Modeling, Measurement & Control, 1998 – vol. 69, No. 1,2, pages: 9- 27, ISSN 0761 – 2508 A.M.S.E., 69160 – Tassin, FRANCE.
- [2] H.H.EL-Tamaly, **Abou-H. M. Elsayed** and P. Schegner, “Design and Performance of Photovoltaic Power Systems in an Egyptian Site”, The Eighth International Middle East Power Systems Conference (MEPCON'2001), PES, IEEE, Department of Electrical Machines and Power Engineering, Faculty of Engineering, Helwan, PP 843-848, December 29 – 31, 2001.
- [3] **Abou-H. M. Elsayed**, H.H.EL-Tamaly, “The Effect of Unsymmetrical Impedance's of the Transposed Transmission Line on the Protection System”, The 2<sup>nd</sup> MINIA International Conference for ADVANCED TRENDS IN ENGINEERING, (MICATE'2002), Faculty of Engineering, Minia University, El-Minia, Egypt, PP.1012-1019, April 7-9, 2002.
- [4] H.H.EL-Tamaly, **Abou-Hashema M. El-Sayed** “A New Technique for Setting Calculation of Digital Distance Relays”, The Eleventh International Middle East Power Systems Conference (MEPCON'2006), PES, IEEE, Department of Electrical Engineering, Faculty of Engineering, Minia University, El-Minia, Egypt, PP 135-139, December 19 – 21, 2006.

- [5] H.H.EL-Tamaly, Abd El Maksod I. Ahmed and **Abou-Hashema M. El-Sayed** "Effects of Protective Equipments Reliability on That of Electrical Distribution Systems", The Eleventh International Middle East Power Systems Conference (MEPCON'2006), PES, IEEE, Department of Electrical Engineering, Faculty of Engineering, Minia University, El-Minia, Egypt, PP 146-152, December 19 – 21, 2006.
- [6] Mohamed M. Hamada, Mohamed A. A. Wahab, **Abou-Hashema M. El-Sayed** and Husam A. Ramadan "A Proposed Strategy for Capacitor Allocation in Radial Distribution Feeders", Twelfth International Middle East Power Systems Conference (MEPCON'2008), PES, IEEE, Department of Electrical Engineering, Faculty of Engineering, South Valley University, Aswan, Egypt, PP. 146 – 151, March 2008.
- The paper can be checked on the IEEE browser on the given link:  
[http://ieeexplore.ieee.org/xpl/freeabs\\_all.jsp?arnumber=4562320](http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=4562320)
- [7] **Abou-Hashema M. El-Sayed**, "Design of Renewable Energy System in an Egyptian Site", The First Egypt-Japan International Symposium on Science and Technology, Waseda University, Tokyo, Japan, 8-10 June 2008.
- [8] **Abou-Hashema M. El-Sayed** and Noriyuki HAYASHI, "The Transposed Transmission Line and Its Effect on The Protection System" Kyushu island Joint Conference No. 20, Japan, September 2008.
- [9] Emad El-bakoury, **Abou-Hashema M. El-Sayed**, Hideaki Yumiyama, N. Hayashi, "Overview of the Current Status for Tidal Energy", the annual meeting of IEEJ, Japan, pp.122-123, March 2009.
- [10] M. M. Hamada, Mohamed A. A. Wahab, **Abou-Hashema M. El-Sayed** and **Husam A. Ramadan**, " A New Approach for Capacitor Allocation in Radial Distribution Feeders" in The 2009 World Congress on Electronics and Electrical Engineering WCEEENG'09, Cairo, Egypt, April 2009.
- This paper was selected among the top twelve papers participating in the conference, the selected papers are published in the on-line journal (OJEEE), website:  
<http://infomesr.org/OJEEE.html>
- [11] Emad El-Bakoury, **Abou-Hashema M. El-Sayed**, Noriyku Hayashi, " Design and Analysis of Marine and Tidal Current Converters Using DC-DC Boost Converters Part 1:", Kyushu island Joint Conference No. 21, Japan, September 2009.
- [12] Emad El-Bakoury, **Abou-Hashema M. El-Sayed**, Noriyku Hayashi, " Design and Analysis of Marine and Tidal Current Converters Using DC-DC Boost

- Converters Part 2:”, Kyushu Island Joint Conference No. 21, Japan, September 2009.
- [13] **Abou-Hashema M. El-Sayed**, "A New Setting Protocol for Distance Relay Protection Systems in Transposed Transmission Lines With Unsymmetrical Impedances", JES, Journal of Engineering Sciences, Faculty of Engineering Journal, University of Assuit, Egypt, Vol. 37-no 5, pp 1135-1144, September 2009.
- [14] **Abou-Hashema M. El-Sayed** and Emad El-Bakoury, "Design and Simulation of Marine and Tidal Current Converters Using DC-DC Boost Converter", JES, Journal of Engineering Sciences, Faculty of Engineering Journal, University of Assuit, Egypt, Vol. 37-no 5, pp 1145-1155, September 2009.
- [15] M. M. Hamada, Mohamed A. A. Wahab, **Abou-Hashema M. El -Sayed** and Husam A. Ramadan, "A New Fuzzy Approach for Optimal Allocation and Sizing of Capacitor Banks " , 13th International Middle East Power Systems Conference (MEPCON'2009), PES, IEEE, Department of Electrical Engineering, Faculty of Engineering, University of Assuit, Assuit, Egypt, December 2009.
- [16] Gamal M. DOUSOKY, **Abou-Hashema M. El-Sayed**, and Masahito SHOYAMA, "An Improved Orientation Strategy for Energy-Efficiency in Photovoltaic Panels", Journal of Power Electronics (JPE), under Publishing, publication is expected at Vol. 11, No. 2, March 2011.
- [17] Gamal M. DOUSOKY, **Abou-Hashema M. El-Sayed**, and Masahito SHOYAMA, "Optimal Orientation for Maximizing Energy-Efficiency in PV Panels", IEICE Tech. Rep., vol. 110, no. 393, EE2010-37, pp. 55-60, Jan. 2011.
- [18] G. M. Dousoky, **Abou-Hashema M. El-Sayed**, and M. Shoyama, Maximizing Energy-Efficiency in Single-Axis Solar Trackers for Photovoltaic Panels, Paper accepted for presentation at the IEEE 8th International Conference on Power Electronics, ECCE Asia, Jeju, Korea, May 30 to June 03, 2011.
- [19] Hegazy Rezk and **Abou-Hashema M. EL-Sayed**, "Sizing of A Stand Alone Concentrated Photovoltaic System in Egyptian Site". International Journal of Electrical Power and Energy Systems, Elsevier, PP. 325-330, September 2012.
- [20] **Abou-Hashema M. EL-Sayed**, "Modeling and Simulation of Smart Maximum Power Point Tracker for Photovoltaic System", Minia Journal of Engineering and Technology, (MJET), Vol. 32, No. 1, January 2013.
- [21] **Abou-Hashema M. El-Sayed**, and Marwa A. El-Diwinly, "New Intelligent

- Control of Auto-self Defensive Unmanned Arial Vehicale”, 12th International Conference on Signal Processing, Robotics and Automation, Cambridge, UK, PP. 200-203, February 20-22, 2013.
- [22] **Abou-Hashema M. El-Sayed**, and Marwa A. El-Diwiny, “Intelligent Control of Unmanned Arial Vehicale Using Inertial Guidance Algorithm”, The Online Journal on Electronics and Electrical Engineering (OJEEE), Vol. 5 –No. 3, PP. 582-586, 2013.
- [23] Husam A. Ramadan, Mohamed A.A. Wahab, **Abou-Hashema M. El-Sayed**, and Mohamed M. Hamada, “A fuzzy-based approach for optimal allocation and sizing of capacitor banks”, International Journal of Electric Power Systems Research, Elsevier, PP. 232-240, August 2013.
- [24] **Abou Hashema M. El-Sayed** and Yehia S. Mohamed, “On line parameter estimation of an induction motor using Recursive least squares method”, JES, Journal of Engineering Sciences, Faculty of Engineering Journal, University of Assuit, Egypt, Vol. 42-no. 1, pp 165-179, January 2014.
- [25] **Abou Hashema M. El-Sayed** and Hamdy Ziedan, “Corona current-voltage characteristics of wire-duct precipitators with grading of wire-to-wire spacing and wire radius” Accepted in 14th International Middle East Power Systems Conference (MEPCON’14), PES, IEEE, Department of Electrical Engineering, Faculty of Engineering, Ain Shams University, Cairo, Egypt.
- [26] Ayat G. Abouelmagd, **Abou-Hashema M. El-Sayed**, and Ahmed El-Gaafary, “Design of digital controller for (MSBB) system application based on observer techniques”, Minia Journal of Engineering and Technology, (MJET), Vol. 32, No. 1, July 2014.
- [27] Marwa El Diwiny, **Abou-Hashema M. El-Sayed**, G.Abouelmagd, and El-Sayed Hassanen, “New Anyti stealth Technology for safe piloting of the unmanned aerial vechicle”, First International conference on Industry Academia Collaboration, IAC 2014, Organized by Hadath in cooperation with the Academy of Scientific Research & Technology and the Ministry of Industry, March 3-5, 2014.
- [28] Marwa El Diwiny, **Abou-Hashema M. El-Sayed**, G.Abouelmagd, and El-Sayed Hassanen, “Proposed Surface to Air Anti stealth Technology for Homeland Security”, 2<sup>nd</sup> International Conference of Engineering and Technology, IEEE ICET 2014, German University in Cairo, April 19-20, 2014.
- [29] M. Dinary, **Abou-Hashema M. El-Sayed**, Abdel Badie Sharkawy, and G. Abouelmagd, “ A Control Scheme For Industrial Robots Using Artificial Neural Networks”, 2014 International Conference on Mechanics and

Mechatronics Research (ICMMR 2014), , Kuala Lumpur, Malaysia, May 8-9, 2014.

- [30] Marwa El Diwiny, **Abou-Hashema M. El-Sayed**, G.Abouelmagd, and El-Sayed Hassanen, "Proposed Implementation of Anti stealth Technology for Defense and National Security", Accepted for oral presentation and Publishing in the world congress unmanned system Engineering (WCUSEng) Oxford University, Oxford, United Kingdom, August 30-31, 2014.
- [31] Marwa El Diwiny, **Abou-Hashema M. El-Sayed**, G.Abouelmagd, and El-Sayed Hassanen, "PSTD Monitoring by using brain computer interface for unmanned Aerial Vehicle Operating Safety", Accepted for oral presentation and Publishing in the 33<sup>rd</sup> DASC, Digital Avionics System Conference, Designing an Air Transportation System with Multi Level-Resilience, American Institute of Aeronautics and Astronautics, Colorado Springs, Co, United States, October 5-9, 2014.
- [32] Marwa A. El Diwiny, **Abou Hashema M. El sayed**, G.Abouelmagd , and El Sayed Hassanen, "Proposed air to air Anti stealth Technology for safe piloting of the unmanned aerial vehicle Accepted for publishing in the open access Journal ,International Journal of Unmanned system Engineering (IJUSEng) the official International Journal of Unmanned system Engineering of Unmanned Vehicle University, Washington ,phoenix , The editor : Marques Aviation Ltd- Press and Francis Taylor series , ISSN :2052-112X
- [33] Marwa A. El Diwiny, **Abou Hashema M. El sayed**, and G.Abouelmagd, El-Sayed Hassanen" Book Chapter, Recent advances in signal processing, Robotics and Automation," 22 March 2012, ISBN: 978-1-61804-164-7.
- [34] G. El-Saady, **Abou-Hashema El-Sayed**, E. A. Ebrahim, and H. I. Abdul-Ghaffar, "Harmonic Compensation Using On-Line Bacterial Foraging Optimization Based Three-Phase Active Power Filter", Wseas Transactions On Power Systems, Vol. 10, PP. 73-81, 2015.
- [35] Ahmed Anour, Hegazy Rezk, **Abou Hashema Mostafa** and A. El-Gaffary, "Improving Energy Conversion Efficiency of Solar Thermoelectric Power Generator", The 17<sup>th</sup> International Middle East Power Systems Conference (MEPCON'15), PES, IEEE, Department of Electrical Engineering, Faculty of Engineering, University of Mansoura, Mansuora, Egypt, 17-19 December 2015.
- [36] Adel A. Elbaset, **Abou-Hashema M. El-Sayed**, and Alaa Eldin H. Abozeid, "Grid Synchronization Enhancement of a Wind Driven DFIG



- Using Adaptive Sliding Mode Control””, The 17<sup>th</sup> International Middle East Power Systems Conference (MEPCON’15), PES, IEEE, Department of Electrical Engineering, Faculty of Engineering, University of Mansoura, Mansuora, Egypt, 17-19 December 2015.
- [37] Yehia S. Mohamed, Adel A. Elbaset, **Abou-Hashema M. El-Sayed**, and Alaa Eldin H. Abozeid, “Grid Synchronization of a Wind Driven DFIG under Unbalanced Grid Voltage Based on Adaptive Sliding Mode Control””, The 17<sup>th</sup> International Middle East Power Systems Conference (MEPCON’15), PES, IEEE, Department of Electrical Engineering, Faculty of Engineering, University of Mansoura, Mansuora, Egypt, 17-19 December 2015.
- [38] E. A. Ebrahim, Y. S. Mohamed, **Abou-Hashima El-Sayed**, and H. I. Abdul-ghaffar, “Artificial Intelligent-Based Control of Active Power Filter for Harmonic Elimination with Inductive Loads””, The 17<sup>th</sup> International Middle East Power Systems Conference (MEPCON’15), PES, IEEE, Department of Electrical Engineering, Faculty of Engineering, University of Mansoura, Mansuora, Egypt, 17-19 December 2015.
- [39] Adel A. Elbaset, **Abou-Hashema M. El-Sayed**, and Alaa Eldin H. Abozeid, “A Modified MRAS Observer for Sensorless Control of A Wind Driven DFIG Connected to Grid”, *Minia Journal of Engineering and Technology*, (MJET), Vol. 35, No. 1, January 2016.
- [40] Asmaa A. Elghany, Hegazy Rezk, and **Abou Hashema M. El Sayed**, “Robust Parameter Estimation of Vector Controlled Induction Motors Based on a Modified Particle Swarm Optimization Technique”, the 18th International Middle East Power Systems Conference (MEPCON’2016), PES, IEEE, Department of Electrical Engineering, Faculty of Engineering, Helwan University, Cairo, Egypt, 27-29 December 2016.
- [41] M. H. El-Ahmar, **Abou-Hashema M. El-Sayed**, and A. M. Hemeida, “Mathematical Modeling of Photovoltaic Module and Evaluate The Effect of Varoius Paramenters on its Performance”, the 18th International Middle East Power Systems Conference (MEPCON’2016), PES, IEEE, Department of Electrical Engineering, Faculty of Engineering, Helwan University, Cairo, Egypt, 27-29 December 2016.
- [42] Ayat G. Abo El-Magd, Ahmed A. Zaki Diab, **Abou-Hashema M. El-Sayed**, “Robust Controller Design for Load Frequency Control Based on  $H_{\infty}$  and Linear Quadratic Gaussian Techniques”, *Minia Journal of Engineering and Technology*, (MJET), Vol. 37, No. 1, January 2017.

- [43] Adel A. Elbaset, **Abou-Hashema M. El-Sayed**, and Alaa Eldin H. Abozeid, “Grid synchronisation enhancement of a wind driven DFIG using adaptive sliding mode control”, IET Renewable Power Generation Journal, The Institution of Engineering and Technology, PP. 1-8, 2017.
- [44] Ayat G. Abo El-Magd, Ahmed A. Zaki Diab, **Abou-Hashema M. El-Sayed**, and A. Ahmed EL-Gafaary, “Robust Controllers Design Based on  $H_{\infty}$  and LQG Techniques for Automatic Load Frequency Control of Double Reheat Steam Turbine”, Minia Journal of Engineering and Technology, (MJET), Vol. 38, No. 1, July 2017.
- [45] Ali A. Radwan, Medhat O. Foda, **Abou-Hashema M. Elsayed**, and Yehya S. Mohamed, “Modeling and Reconfiguration of Middle Egypt Distribution Network”, the 19th International Middle East Power Systems Conference (MEPCON’2017), PES, IEEE, Department of Electrical Engineering, Faculty of Engineering, Menoufia University, Egypt, 19-21 December 2017.
- [46] Ayman Abdel-raheim Amr, A.A.M.Hassan, Mazen Abdel-salam, **Abou Hashema M. El-Sayed**, “Enhancement of Photovoltaic System Performance via Passive Cooling”, the 19th International Middle East Power Systems Conference (MEPCON’2017), PES, IEEE, Department of Electrical Engineering, Faculty of Engineering, Menoufia University, Egypt, 19-21 December 2017.
- [47] M. H. El-Ahmar, **Abou-Hashema M. El-Sayed**, and A. M. Hemeida, “Evaluation of Factors affecting Wind Turbine Output Power”, the 19th International Middle East Power Systems Conference (MEPCON’2017), PES, IEEE, Department of Electrical Engineering, Faculty of Engineering, Menoufia University, Egypt, 19-21 December 2017.
- [48] Ali M. Eltamaly, Yehia Sayed, **Abou-Hashema M. El-Sayed** and Amer Nasr A. Elghaffa, “Enhancement of Power System Quality Using PI Control Technique with DVR for Mitigation Voltage Sag”, Accepted for publishing, (MEPCON’2018), 2018 Twentieth International Middle East Power Systems Conference (MEPCON), Cairo University, Cairo, Egypt, December 18-20, 2018.

