



PERSONAL INFORMATION

Mohamed Bayoumy AbdelKader ZAHRAN
Professor Researcher at Electronics Research Institute “ERI”
Ministry of Higher Education and Scientific Research
President of National Authority for Remote Sensing and Space Science (NARSS – Chairman).



- 📍 15, Masged ElRahman St., Meit Kadoss, Al-Manawat, GIZA, 12915, EGYPT
- ☎ 00202-38172003 (Home) 📠 0020100-4079512 (CF) 00202-26252700 (Work)
- ✉ mbazahran@narss.sci.eg, mbazahran@eri.sci.eg, mbazahran_2007@yahoo.com, mbazahran@live.com,
- 🔗 <http://www.eri.sci.eg/?q=en/node/72>
<https://scholar.google.com/citations?user=Z2tBw84AAAAJ&hl=en>
https://www.researchgate.net/profile/Mohamed_Zahran5
<https://www.scopus.com/authid/detail.uri?authorId=55658056059>

Sex Male | Date of birth 08/11/1963 | Nationality Egyptian

WORK EXPERIENCE

- 26/2/2019 – Now **President of National Authority for Remote Sensing and Space Science,**
- 2/1/2017 – 25/2/2019 Vice President of Electronics Research Institute
- 5/7/2015 – 4/7/2018 Head of Photovoltaic Cells Dept.,
- 5/7/2015-25/12/2017 Head of ERI Technical Office,
- 10/10/2017 - Now Supervisor of Nano-Technology Lab., ERI
- Sep. 2016 - Now Technical Consultant of Egypt-China Joint Laboratory, Solar Cell Fab. Lab, Qaraman Island, Sohag Province
- 6/10/2008-12/8/2015 Professor of Electrical Engineering, Faculty of Eng. Jazan Univ., KSA,
- 2010 – 2013 Head of Electrical Eng. Dept., FoE, Jazan Univ., KSA,
- 2002 – 2008 Full Time Employed by National Authority for Remote Sensing and Space Science, Space Division, Egyptian Space Program, Researcher at Electronics Research Institute, PV Cells Dept.
- 1999 – 2002 Research Assistant, ERI, PV Cells Dept.
- 1994 – 1999 Assistant Researcher, ERI, PV Cells Dept.
- 1990 - 1993 Main Activities: Research and Development

EDUCATION AND TRAINING



Curriculum Vitae

Prof. Dr. Mohamed Zahran

- April 1994 – Jan. 1999
 - Jul. 1995 – Dec. 1996
 - Oct. 1990 – July 1993
 - Sept. 1982 – July 1987
- Ph.D. Electrical Power and Machines, Cairo University – (Scientific Channel with Siegen University – Germany), Egypt, 1999,
 - Thesis title is, “Optimal Sizing and Reliable Controller of Hybrid Photovoltaic Power Systems”,
 - M.Sc. Electrical Power and Machines, Cairo University, Egypt, 1993,
 - Thesis Title is "Microcomputer Control of Photovoltaic Diesel Generator Hybrid Power System
 - B.Sc. in Electrical Power and Machines, Kima High Institute of Technology, Egypt, 1987,
 - Project Title "Four Quadrant DC Machines Control Using Duel Converter" and its Grade is (Excellent).

PERSONAL SKILLS

Mother tongue(s)

Other language(s)

Arabic

	UNDERSTANDING		SPEAKING		WRITING
	Excellent		Excellent		Excellent
	Listening	Reading	Spoken interaction	Spoken production	
English	Very Good	Excellent	Very Good	Very Good	
German	Fair	Fair	Fair	Fair	

Communication skills

- Good communication skills gained through my experience as head Dept., System Engineer, Technical Office Head and ERI Vice President.

Organisational / managerial skills

- Leadership (Vice President) responsible for a team of 288 members,
- Leadership (Head Dept.) responsible for a team of 25 members),
- Leadership (ERI NANO Lab. Supervisor) responsible for a team of 10 members,

Job-related skills

- good command of:
 - **Remote Sensing Satellites, System Engineering and Power Subsystem Designer,**
 - Renewable Energy Power Systems Architecture,
 - Design and Optimal Sizing of Photovoltaic Hybrid Systems Components,
 - Photovoltaic, Solar-Wind, System Design and Implementation,
 - Hybrid Systems Management and Control,
 - Wired and Wireless Monitoring and Control Systems of PV Stations,
 - PV Grid Connected Systems

Driving licence

National and International

ADDITIONAL INFORMATION



Publications

Presentations
Projects
Conferences
Seminars
Honours and awards
Memberships
References
Citations
Courses
Certifications

1. M.Bayoumy, S.El-Hefnawi, O.Mahgoub, and Ahmed El-Tobshy, "New Techniques for Battery Charger and SOC estimation in Photovoltaic Power Systems", Technical Digest of International PVSEC-7, Nagoya, Japan, 1993.
2. M.Bayoumy, S.El-Hefnawi, O.Mahgoub, and Ahmed El-Tobshy, "New Techniques for Battery Charger and SOC estimation in Photovoltaic Power Systems", Solar Energy Materials and Solar Cells, 35 (1994) 509-514.
3. M.Zahran, A.Hanafy, S.El-Hennawi, M.Kamel, O.Mahgoub and F.Fett, "Optimal sizing for Photovoltaic Diesel Generator Hybrid Power System", Eurosun96 Conference, 16-19 Aug., Freiburg, Germany, 1996
4. M.Zahran, A.Hanafy, S.El-Hennawi, M.Kamel, O.Mahgoub and F.Fett, "Optimal sizing for Photovoltaic Diesel Generator Hybrid Power System", Engineering Research Journal, Helwan Univ., Vol. 54, Nov., 1997.
5. M.Zahran, A.Hanafy, S.El-Hefnawi, O.Mahgoub and M.Kamel, "Sensitivity Analysis for Photovoltaic Remote Area Power System Subject to Dynamic Load Changes", The 3rd International Conference on Solar Electricity, Sharjah, March 21-25, 1998,
6. S.El-Hefnawi, A.Hanafy and M.Zahran, "Sizing of Remote Area Stand-alone Systems", The 3rd International Conference on Solar Electricity, Sharjah, March 21-25, 1998,
7. S.El-Hefnawi, A.Hanafy and M.Zahran, "Economical Analysis of Remote Area Systems", The 6th International Conference on Energy and Environments, Cairo, Egypt, 1998.
8. S.El-Hefnawi, A.Hanafy and M.Zahran, "Economical Analysis of Remote Area Systems", The 6th International Conference on Energy and Environments, Cairo, Egypt, 1998.
9. M.Zahran, A.Hanafy, S.El-Hefnawi, O.Mahgoub and M.Kamel, "Reliability and Sensitivity Analysis for Different Photovoltaic Remote Area Systems (Part I)", NorthSun'99, 8th International Biannual Conference of the Solar Energy in High Latitudes, Edmonton, Alberta, Canada , 11-14 Aug., 1999,
10. M.Zahran, A.Hanafy, S.El-Hefnawi, O.Mahgoub and M.Kamel, "Reliability and Sensitivity Analysis for Different Photovoltaic Remote Area Systems (Part II)", NorthSun' 99, 8th International Biannual Conference of the Solar Energy in High Latitudes, Edmonton, Alberta, Canada , 11-14 Aug., 1999,
11. M.Zahran, et. al, "Fuzzy Logic Controller (FLC) Based Photovoltaic Battery Diesel Hybrid System Management and Control" "35th International Energy Conversion Engineering Conference", LAS VEGAS, USA, JULY 23-28, 2000.
12. M.Zahran, et. al, "Fuzzy Logic Controller (FLC) Based Photovoltaic Battery Diesel Hybrid System Management and Control" "28th IEEE Photovoltaic Specialists Conference", September 15-22, 2000, Anchorage Hilton, Anchorage, Alaska, USA
13. M.Zahran, et. al, "P-Controller Based Photovoltaic Battery Diesel (PVBD) Hybrid System Management and Control" "35th International Energy Conversion Engineering Conference", LAS VEGAS, USA, JULY 23-28, 2000.
14. M.Zahran, et. al, "PV Battery Wind-Turbine Public-Grid Hybrid Power Supply for Telecom. –Equipment, System Management & Control", Makowiec Installation-POLAND. "35th International Energy Conversion Engineering Conference", LAS VEGAS, USA, JULY 23-28, 2000.
15. M.B. Zahran and O.A. Mahgoub, "Photovoltaic Battery (PVB) Stand-Alone System Control Signals Estimation", World Renewable Energy Congress VI (WREC2000) © 2000 Elsevier Science Ltd. All rights reserved, Editor: A.A.M. Sayigh



Curriculum Vitae

Prof. Dr. Mohamed Zahran

16. M.Zahran, "Photovoltaic Battery Wind-Turbine Public-Grid Hybrid System Reliability Study" Sharja Solar Energy Conference, Sharja, UAE, 19-22 Feb., 2001.
17. M.Zahran, "Photovoltaic Hybrid Systems Reliability and Availability", 17th European Photovoltaic Solar Energy Conference and Exhibition, 22-26 Oct. 2001, Munich Germany.
18. M.M Salem, M.Zahran et. al, "Real Time Implementation of On-Line Trained Neuro-Controller for a BLDC Motor", Journal of power electronics, Vol. 3, No. 1, PP 10-16 JPE 3-1-1, ISSN 1598-2092, January 2003
19. M.Zahran, "Photovoltaic Hybrid Systems Reliability and Availability", Journal of power electronics, Vol. 3, No. 3, PP 145-150 JPE -3-1, ISSN 1598-2092, July 2003
20. M.Zahran, et al., "Assessment of Earth Remote Sensing Microsatellite Power Subsystem Capability during Detumbling and Nominal Modes", Journal of Ain Shams University, Faculty of Engineering, Vol. 40, No. 3, September 30, 2005 (Scientific Bulletin Part II, Electrical Engineering), and
21. M. Zahran, S. Tawfik* & Gennady Dyakov**"L.E.O. Satellite Power Subsystem Reliability Analysis", Journal of Ain Shams University, Faculty of Engineering, Vol. 40, No. 4, December 31, 2005 (Scientific Bulletin Part II, Electrical Engineering)
22. M.Zahran, et al., "Assessment of Earth Remote Sensing Microsatellite Power Subsystem Capability1 during Detumbling and Nominal Modes", 11th International Conference on AEROSPACE SCIENCE & AVIATION TECHNOLOGY, 17-19 May, 2005, Military Technical College, Cairo EGYPT
23. M.Zahran, et al., "Assessment of Earth Remote Sensing Microsatellite Power Subsystem Capability during Detumbling and Nominal Modes", 11th International Conference on AEROSPACE SCIENCE & AVIATION TECHNOLOGY, 17-19 May, 2005, Military Technical College, Cairo EGYPT
24. M.Zahran, et al., "Assessment of Earth Remote Sensing Microsatellite Power Subsystem Capability during Detumbling and Nominal Modes", Journal of Power Electronics, Volume 6, No. 1, January 2006, "JPE 6-1-3".
25. M. Zahran, S. Tawfik* & Gennady Dyakov**"L.E.O. Satellite Power Subsystem Reliability Analysis" , Journal of Power Electronics, Volume 6, No. 2, April 2006, "JPE 6-2-2", and
26. M. Zahran, "In Orbit Performance of LEO Satellite Electrical Power Subsystem - SW Package for Modelling and Simulation Based on MatLab.7 GUI", Journal of, "WSEAS Transactions on Power Systems", Issue 5, Volume 1, May 2006, and
27. M. Zahran & A. Atef "Electrical and Thermal Properties of NiCd Battery for Low Earth Orbit Satellite's Applications", Journal of, "WSEAS Transactions on Electronics, Issue 6, Volume 3, June 2006"
28. M. Zahran, "In Orbit Performance of LEO Satellite Electrical Power Subsystem - SW Package for Modelling and Simulation Based on MatLab.7 GUI", 2006 WSEAS/ IASME International Conference on: ENERGY and ENVIRONMENTAL SYSTEMS (EE'06), Chalkida, Evia Island, Greece, May 8-10, 2006.
29. M. Zahran & A. Atef "Electrical and Thermal Properties of NiCd Battery for Low Earth Orbit Satellite's Applications", 6th WSEAS International Conference on POWER SYSTEMS PE'06 that will be held in "Lisbon, Portugal, Sept. 22-24, 2006.
30. M. Zahran "Charge Equalization Unit for a NiCd Battery of Small Earth Observation Satellite EPS Simulation", 7th WSEAS International Conference on POWER SYSTEMS (PE 2007), Beijing, China, September 15-17, 2007,
31. M. Zahran, "Charge Equalization Unit for a NiCd Battery of Small Earth



Curriculum Vitae

Prof. Dr. Mohamed Zahran

- Observation Satellite EPS Simulation”, WSEAS TRANSACTIONS on POWER SYSTEMS, Issue 3, Volume 3, March 2008.
32. M. Zahran, Mahmoud Salem, Yousry Atia and Aref Eliwa, “Design and Implementation of a Digital Control Unit for an Oxygenaire Servo Baby Incubator”, Journal of Power Electronics, Vol. 8, No. 2, April 2008
 33. M. Zahran “Design, Implementation and Testing of HF transformers for Satellite EPS Applications ”, Journal of Power Electronics, Vol. 8, No. 3, July 2008
 34. M. Zahran, et. al, " Charge Equalizing Device Implementation for Satellite EPS NiCd Battery ", World Renewable Energy Congress X, Glasgow, Scotland, 19-25 July 2008
 35. M. Zahran, et. al, " Charge Levelling Unit for Satellite EPS Applications", 2nd International Conference on Advanced Control Circuits and Systems (ACCS'08) , March 30 – April 2, 2008, Egypt
 36. Mohamed Zahran and Mohamed Aly, “A Solar Cell Based Coarse Sun Sensor for a Small LEO Satellite Attitude Determination”, Journal of Power Electronics, Vol. 9, No. 4, July 2009 (631 – 642)
 37. Ihab El-Sayed, Mohamed Zahran and Yousry Atia1, “Developing a Real-Time (LabView Based) Productivity Measurement System for Textile Factories”, Mansoura Engineering Journal, (MEJ), Vol. 34, No.2, June 2009, (PP 41 – 50).
 38. Yousry Atia and Mohamed Zahran, “A Novel System for Photovoltaic Solar Cell Test and Characteristic Measurements”, Engineering Research Journal, Vol. 32, No. 4, October 2009, PP 429-435 Faculty of Engineering, Minoufiya University.
 39. S. M. Sadek, N. M. Ahamed, M. B. ZAHARAN, and Abd El-Shafy A. Nafeh, “Microcontroller-Based Moving Message Display Powered by Photovoltaic Energy”, Ain Shams Journal of Electrical Engineering (ASJEE), Vol. 2.Dec. 2009 PP. 15 – 25
 40. Mohamed Zahran, Yousry Atia, Abdullah Alhosseen & Ihab El-Sayed, “Wired and Wireless Remote Control of PV System”, WSEAS TRANSACTIONS on SYSTEMS and CONTROL, ISSN: 1991-8763, PP:656 – 666, Issue 8, Volume 5, August 2010
 41. YOUSRY ATIA, MOHAMED ZAHARAN AND ABDULLAH AL-HOSSAIN, “Solar Cell Curves Measurement Based on LabVIEW Microcontroller Interfacing”, Proceedings of the 12th WSEAS International Conference on AUTOMATIC CONTROL, MODELLING & SIMULATION, ISSN: 1790-5117, ISBN: 978-954-92600-1-4, Catania, Italy, May 29-31, 2010.
 42. MOHAMED ZAHARAN , YOUSRY ATIA , ABDULLAH AL-HUSSAIN & IHAB EL-SAYED, “LabVIEW Based Monitoring System Applied for PV Power Station”, Proceedings of the 12th WSEAS International Conference on AUTOMATIC CONTROL, MODELLING & SIMULATION, ISSN: 1790-5117, ISBN: 978-954-92600-1-4, Catania, Italy, May 29-31, 2010.
 43. Mohamed Zahran, Yousry Atia, Abdullah Alhusseen & Ihab El-Sayed, “LABVIEW BASED REMOTE MONITORING SYSTEM APPLIED FOR PHOTOVOLTAIC POWER STATION”, The Fifth eServices Symposium of the Eastern Province: Comprehensive eServices: Successes and Challenges Al-Khubar, KSA, 22-24 March, 2010.
 44. Yousry Atia, Mohamed Zahran and Abdullah Al-Hossain, “Solar Cell Emulator and Solar Cell Characteristics Measurements in Dark and Illuminated Conditions”, WSEAS TRANSACTIONS on SYSTEMS and CONTROL, Issue 4, Volume 6, April 2011.
 45. Ahmed Said Oshabl, Yousry Atia, and Mohamed Zahran, “Self-Tuning Fuzzy Logic Control for SRM driven from A Solar Energy Source”, ERJ,



- Engineering Research Journal, Faculty of Engineering, Min'oufiya University, Vol. 35, Nr. 4, Oct., 2012,
46. Mohamed Zahran, Yousry Atia and Ahmed Abulmagd, "Reliable, Cheaper, and Modular New SCADA System for Wireless Remote Applications", Kingdom SCADA Summit 2012, 18 - 21 March, 2012, Sheraton Dammam Hotel and Towers, Dammam, Saudi Arabia
 47. Mohamed Zahran, "Smart Grid Technology, Vision, Management and Control", WSEAS TRANSACTIONS on SYSTEMS, E-ISSN: 2224-2678 11 Issue 1, Volume 12, January 2013, <http://www.wseas.org/multimedia/journals/systems/2013/55-400.pdf>
 48. Mohamed Zahran, Yousry Atia and Ahmad H. Besheer, "PV Pumping System Characterization Using Virtual Monitoring Environment", International Review of Electrical Engineering (I.R.E.E.), Vol. 8, N. 1, ISSN 1827- 6660 January - February 2013,
 49. Mohamed Zahran and Ali M. Yousef, "Photovoltaic Wind-Turbine Battery Hybrid System Monitoring using LabVIEW Virtual Environment", Accepted for publication in Journal of Electrical Engineering, JEE, http://www.jee.ro/view_art.php?art=WQ1372499516W51ceae3ce09d9, University "POLITEHNICA" Timisoara, Romania, Faculty of Electrical and Power Engineering; Dec., 2013,
 50. Mohamed Zahran and Ali M. Yousef, "Monitoring of Photovoltaic Wind-Turbine Battery Hybrid System", WSEAS Transaction on Power System", Issue 1, Volume 9, January 2014.
 51. Mohamed Zahran, M.M. Salem and Yousry Atia, "Active Anti-Islanding Based Inverter for PV Grid Connected System", IPASJ International Journal of Electrical Engineering (IJEE), Volume 2, Issue 9, September 2014.
 52. Ali M. Yousef, Mohamed Zahran, "Permanent Magnet DC motor supplied by Photovoltaic System Speed Control Based on Fuzzy Logic Controller with Robust MPPT", Accepted for publication in 16th International Middle East Power Systems Conference (MEPCON'14) 23-25 February 2014, Cairo, Egypt.
 53. Mohamed Zahran, Yousry Atia, M.M. Salem and Aref Eliwa, "Simulation and Implementation of Grid-Connected Photovoltaic System", WSEAS Transaction on Systems and Control", ID: 5803-440, Volume 11, July 2015.
 54. ALI M. YOUSEF, MOHAMED ZAHRAN & GHAREEB MOUSTAFA, "Improved Power System Stabilizer by Applying LQG Controller", WSEAS TRANSACTIONS on SYSTEMS and CONTROL, Volume 10, 2015.
 55. MOHAMED ZAHRAN, ALI M. YOUSEF & GHAREEB MOUSTAFA, "Design of model predictive control for adaptive damping of power system stabilization", WSEAS TRANSACTIONS on SYSTEMS and CONTROL, Volume 10, 2015.
 56. Mohamed Zahran, Ali Yousef and Mahmoud Salem, "Horizontal Axis Wind Turbine Dynamic Simulation Based on LQG Controller", Journal of Electrical Engineering "JEE", http://www.jee.ro/stats_art.php?art=WX1429721933W5537d34dd9b2e, 17th Nov. 2015.
 57. Mohamed B. ZAHRAN, Ali M. YOUSEF and Mahmoud M. SALEM, "Dynamic Simulation of Wind Turbine Based on LQG Controller" 4th International Conference on: ADVANCED CONTROL CIRCUITS AND SYSTEMS (ACCS'015), 3rd International Conference on: NEW PARADIGMS IN ELECTRONICS& INFORMATION TECHNOLOGY (PEIT'015) 15-19 November 2015, Luxor, Egypt.
 58. Ghareeb Moustafa, Mohamed Zahran & Ali M. Yousef, "Breakdown Characteristics of Sphere to Sphere Electrodes as influenced by Harsh Environment", The 17th International Middle East Power Systems



Curriculum Vitae

Prof. Dr. Mohamed Zahran

- Conference MEPCON'15, At Mansoura University, Mansoura, EGYPT, 2015.
59. Mohamed K Metwaly, Mohamed B ZAHARAN, Mahmoud M SALEM, "Development of Data Base and Computer Program for Solar Home Systems Design", International Journal of Applied Engineering Research, Volume 11, Issue 19, Pages 9782-9791, 2016.
 60. Doaa M. Atia, Hanaa T. El- Madany, Aref Eliwa, Ahmed Samir and Mohamed Zahran, "Spectral Irradiance Estimation of Light Emitting Diode Solar Simulator Based on Genetic Algorithm", Research Journal of Applied Sciences, Engineering and Technology 15(6): 227-235, 2018, DOI:10.19026/rjaset.15.5862, ISSN: 2040-7459; e-ISSN: 2040-7467, © 2018 Maxwell Scientific Publication Corp.
 61. Abd Elhamid M. Abd Elhamid, Asmaa A. Alamin, Ahmed M. Selim, Madlin A. Wasfey, Mohamed B. Zahran, "Fabrication of Flexible, Half Printed and All-Solid-State Asymmetric Supercapacitor based on Silver Decorated Reduced Graphene Oxide", 10th International Conference on Nanotechnology (NANOTECHNOLOGY '19), London, UK, February 23-25, 2019

Presentations

Publications
Projects
Conferences
Seminars
Honours and awards
Memberships
References
Citations
Courses
Certifications

1. Photovoltaic Hybrid Systems Reliability and Availability", Journal of power electronics,
2. Assessment of Earth Remote Sensing Microsatellite Power Subsystem Capability during Detumbling and Nominal Modes
3. L.E.O. Satellite Power Subsystem Reliability Analysis
4. In Orbit Performance of LEO Satellite Electrical Power Subsystem - SW Package for Modelling and Simulation Based on MatLab.7 GUI
5. Electrical and Thermal Properties of NiCd Battery for Low Earth Orbit Satellite's Applications",
6. Charge Equalization Unit for a NiCd Battery of Small Earth Observation Satellite EPS Simulation
7. Design, Implementation and Testing of HF transformers for Satellite EPS Applications
8. A Solar Cell Based Coarse Sun Sensor for a Small LEO Satellite Attitude Determination
9. Wired and Wireless Remote Control of PV System
10. Solar Cell Emulator and Solar Cell Characteristics Measurements in Dark and Illuminated Conditions
11. Smart Grid Technology, Vision, Management and Control
12. PV Pumping System Characterization Using Virtual Monitoring Environment
13. Photovoltaic Wind-Turbine Battery Hybrid System Monitoring using LabVIEW Virtual Environment
14. Active Anti-Islanding Based Inverter for PV Grid Connected System
15. Simulation and Implementation of Grid-Connected Photovoltaic System
16. Horizontal Axis Wind Turbine Dynamic Simulation Based on LQG Controller
17. Development of Data Base and Computer Program for Solar Home Systems Design
18. Optimal sizing for Photovoltaic Diesel Generator Hybrid Power System
19. Assessment of Earth Remote Sensing Microsatellite Power Subsystem Capability during Detumbling and Nominal Modes
20. L.E.O. Satellite Power Subsystem Reliability Analysis
21. A Novel System for Photovoltaic Solar Cell Test and Characteristic Measurements
22. A Developed SCADA for Remote PV Systems
23. A Developed Passive Anti-Islanding Hybrid Method for Distributed PV



- Systems
24. New Techniques for Battery Charger and SOC estimation in Photovoltaic Power Systems
 25. Optimal sizing for Photovoltaic Diesel Generator Hybrid Power System
 26. Sensitivity Analysis for Photovoltaic Remote Area Power System Subject to Dynamic Load Changes
 27. Sizing of Remote Area Stand-alone Systems
 28. Economical Analysis of Remote Area Systems
 29. Reliability and Sensitivity Analysis for Different Photovoltaic Remote Area Systems (Part I) & (Part II)
 30. Fuzzy Logic Controller (FLC) Based Photovoltaic Battery Diesel Hybrid System Management and Control
 31. P-Controller Based Photovoltaic Battery Diesel (PVBD) Hybrid System Management and Control
 32. PV Battery Wind-Turbine Public-Grid Hybrid Power Supply for Telecom. – Equipment, System Management & Control”, Makowiec Installation-POLAND
 33. Photovoltaic Battery (PVB) Stand-Alone System Control Signals Estimation
 34. Photovoltaic Battery Wind-Turbine Public-Grid Hybrid System Reliability Study"
 35. Photovoltaic Hybrid Systems Reliability and Availability.
 36. Assessment of Earth Remote Sensing Microsatellite Power Subsystem Capability during Detumbling and Nominal Modes
 37. In Orbit Performance of LEO Satellite Electrical Power Subsystem - SW Package for Modelling and Simulation Based on MatLab.7 GUI
 38. Charge Equalization Unit for a NiCd Battery of Small Earth Observation Satellite EPS Simulation
 39. Charge Equalizing Device Implementation for Satellite EPS NiCd Battery
 40. Solar Cell Curves Measurement Based on LabVIEW Microcontroller Interfacing”,
 41. LabVIEW Based Monitoring System Applied for PV Power Station
 42. LABVIEW BASED REMOTE MONITORING SYSTEM APPLIED FOR PHOTOVOLTAIC POWER STATION
 43. Intelligent Passive Anti-Islanding Hybrid Method for Distributed PV Systems”, Electricity Efficiency Forum 2011 (EEF 2011),
 44. Reliable, Cheaper, and Modular New SCADA System for Wireless Remote Applications
 45. Dynamic Simulation of Wind Turbine Based on LQG Controller”



Publications
Presentations
Projects
Conferences
Seminars
Honours and awards
Memberships
References
Citations
Courses
Certifications

رقم المشروع	إسم المشروع	الفترة الزمنية للتنفيذ	الدور البحثي في المشروع
1st:	أبحاث في تكنولوجيا تصنيع المكونات الإلكترونية	١٩٩٨ - ٢٠٠٠	عضو فريق بحثي
2nd:	تطوير وتنفيذ نظام القدرة لقمرة صناعي متناهي الصغر	1999 - 2001	عضو فريق بحثي
3rd:	مشروع تصميم وتنفيذ وحدة تحكم في حضانة للأطفال المبتسرين	2001-2002	الباحث الرئيسي
4th:	بحوث في برمجيات لأتمتة التصميم والإنتاج خاصة في مجال إستخدام الروبوت	2001-2002	عضو فريق بحثي
5th:	إعداد وتعبئة القدرات البشرية في مجالات بحوث الإلكترونيات والحاسبات والمعلوماتية	2002	عضو فريق بحثي
6th:	القمر الصناعي المصري EgyptSat 1	2002 - 2005	مصمم لنظام القدرة
7th:	القمر الصناعي المصري مصرسات 2-	2005 - 2008	مهندس النظام + رئيس مجموعة القوي
8th:	مشروع تصميم وتنفيذ وحدة معادلة شحن البطاريات من نوع النيكل كادميوم المستخدمة في الأقمار الصناعية	2006-2007	الباحث الرئيسي
9th:	بناء نظام متطور لإستخدام الروبوت للعمليات الصناعية مع التطبيق في إحدى الصناعات الهندسية	2006-2007	عضو فريق بحثي
10th:	مشروع نظام مهجن من الطاقة الشمسية وطاقة الرياح	2012-2013	الباحث الرئيسي
11th:	تطوير نظام تحكم و مراقبة عن بعد لوحدة لضخ المياه الجوفية بالخلايا الشمسية تعمل في منطقة تبوك	2013 - 2014	باحث مشارك (1)
12th:	النمذجة والتطبيق العملي لنظام طاقة شمسية مرتبط بالشبكة	2013-2014	الباحث الرئيسي
13th:	دراسة عملية ونظرية للعوازل الكهربائية في شبكات الجهد العالي تحت ظروف التشغيل القاسية في الأجواء الصحراوية بالمملكة العربية السعودية	2015 - 2014	إستشاري
14th:	مشروع تفعيل مؤشرات قياس الأداء و آلية تحديث البيانات بالمراكز والمعاهد البحثية	2016 - 2017	الباحث الرئيسي
15th:	نموذج أولى للنظام الضوئي الذكي للمحاكي الشمسي	2016-2018	الباحث الرئيسي
16th:	محطة نموذجية لنظام طاقة شمسية مهجنة من الخلايا الكهروضوئية والبطاريات و مولد الديزل	2016-2017	باحث مناوب
17th:	تصميم وتنفيذ منظومة خلايا شمسية مربوطة على شبكة أحادية الوجه	2016-2017	باحث مناوب
18th:	تصنيع المكثف فائق السعة التخزينية باستخدام المواد النانوية	Jan. – Dec- 2018	الباحث الرئيسي



Publications
Presentations
Projects

Conferences

Seminars
Honours and awards
Memberships
References
Citations
Courses
Certifications

رقم المؤتمر	إسم المؤتمر	مكان الإنعقاد والتاريخ
1.	<i>North Sun '99, 8th International Biannual Conference of the Solar Energy in High Latitudes</i>	<i>Edmonton, Alberta, Canada 11-14 Aug., 1999,</i>
2.	<i>25th Annual Conference of the Solar Energy Society of Canada</i>	<i>LAS VEGAS, USA,</i>
3.	<i>35th International Energy Conversion Engineering Conference</i>	<i>JULY 23-28, 2000.</i>
4.	<i>Sharjah Solar Energy Conference</i>	<i>Sharjah UAE, 19-22 Feb., 2001.</i>
5.	<i>17th European Photovoltaic Solar Energy Conference and Exhibition,</i>	<i>22-26 Oct. 2001, Munich Germany.</i>
6.	<i>2006 WSEAS/ IASME International Conference on: ENERGY and ENVIRONMENTAL SYSTEMS (EE'06),</i>	<i>Chalkida, Evia Island, Greece, May 8-10, 2006.</i>
7.	<i>7th WSEAS International Conference on Power Systems,</i>	<i>Beijing, China, September 15-17, 2007</i>
8.	<i>2nd International Conference on Advanced Control Circuits and Systems (ACCS'08),</i>	<i>March 30 – April 2, 2008, Egypt</i>
9.	<i>World Renewable Energy Congress X, ,</i>	<i>Glasgow, Scotland, 19-25 July 2008</i>
10.	<i>The 5th eServices Symposium of the Eastern Province: Comprehensive eServices: Challenges and Successes,</i>	<i>6-8 Rabie II 1431H- 22-24 March 2010G, Kfiobar, Saudi Arabia</i>
11.	<i>12th WSEAS International Conference on AUTOMATIC CONTROL, MODELLING & SIMULATION (ACMOS '10),</i>	<i>Catania, Italy, May 29-31, 2010</i>
12.	<i>Electricity Efficiency Forum 2011 (EEF 2011),</i>	<i>Riyadh International Convention and Exhibition Center, Kingdom Saudi Arabia, 29-31 May 2011.</i>
	<i>4th International Conference on ADVANCED CONTROL CIRCUITS AND SYSTEMS (ACCS'015) and</i>	<i>15-19 November 2015, Luxor, Egypt</i>
	<i>3rd International Conference on NEW PARADIGMS IN ELECTRONICS & INFORMATION TECHNOLOGY (PEIT'015)</i>	



- Publications
- Presentations
- Projects
- Conferences
- Seminars
- Honours and awards
- Memberships
- References
- Citations**
- Courses
- Certifications



Mohamed Zahran

President of National Authority for Remote sensing and Space Science
 Verified email at eri.sci.eg - [Homepage](#)

[Photovoltaics](#) [Renewable Energy Systems](#) [Management and Control](#) [Electrical Engineering](#)
[Remote Sensing Satellites](#)

[FOLLOW](#)

TITLE	CITED BY	YEAR
<input type="checkbox"/> LabVIEW based monitoring system applied for PV power station M Zahran, Y Atia, A Al-Hussain, I El-Sayed International Conference on Automatic Control, Modeling and Simulation ...	34	2010
<input type="checkbox"/> Wired and wireless remote control of PV system M Zahran, Y Atia, A Alhossein, I El-Sayed WSEAS Transactions on Systems and Control 5 (8), 656-666	17	2010
<input type="checkbox"/> Photovoltaic hybrid systems reliability and availability M Zahran Journal of Power Electronics 3 (3), 145-150	13	2003
<input type="checkbox"/> Smart grid technology, vision, management and control M Zahran WSEAS transactions on systems 12 (1)	12	2013
<input type="checkbox"/> PV battery wind-turbine public-grid hybrid power supply for telecom.-equipment, system management and control M Zahran, A Dmowski, B Kras, P Biczaj, J Drazkiewicz Collection of Technical Papers. 35th Intersociety Energy Conversion ...	11	2000


Cited by


All	Since 2014
Citations	217
h-index	9
i10-index	8


VIEW ALL

EDIT

Co-authors


Yousry Atia
 Prof at PV Cells Department, Ele...


Prof. Dr. / Ali M. Yousef
 Professor in Electrical Engineeri...


Dr. Eng. Ihab El-Sayed
 Assnriata Professor of Industrial

Home 15
Questions
Jobs

Search for researchers, publications, and more

18
9
6

Mohamed B. A. Zahran

· il 17.65 · Ph. D. · [Edit](#)

[Add new research](#) +

Overview
Research
Info
Stats
Scores
Research you follow

Introduction

Prof. Dr. Mohamed Bayoumy A. Zahran, received his B.Sc at 1987, excellent grade, M.Sc in 1993 and Ph.D. in 1999 from Cairo University, via a Scientific Channel with Siegen university, Germany, Professor Researcher at the Electronics Research Institute, PV Cells Dept. His experience is mainly in the field of renewable energy systems design. Professor, Faculty of Engineering, Jazan University, KSA since Oct. 2008 to June 2015. Head of Photovoltaic Cells Dept. since July 1st, 2015.

Skills and expertise (53)

MATLAB Simulation

Electronics and Communication Engineering

Renewable Energy Technologies

Control Theory

[Edit](#)

Affiliation

Electronics Research Institute

Location
Giza, Egypt

Department
Photovoltaic Cells Dept. "PV"

Position
Deputy Head of ERI, Head of PV Department

Mohamed B. A. Zahran's Lab

[Edit](#)

Zahran, Mohamed

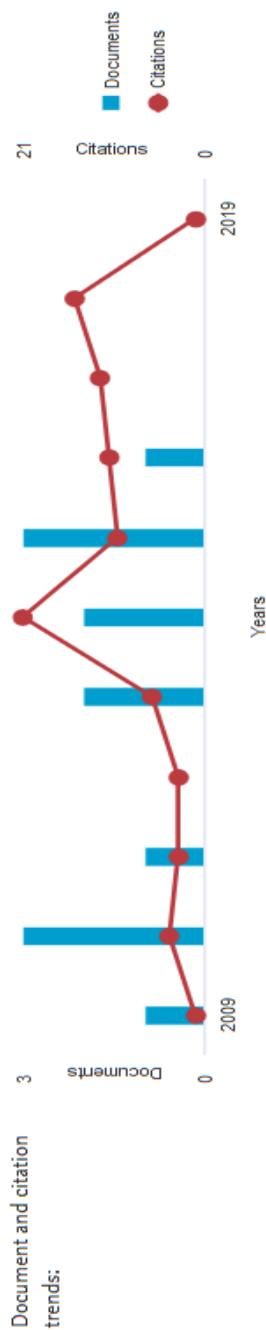
Electronics Research Institute of Cairo, Cairo, Egypt
 Author ID: 55658056059

<http://orcid.org/0000-0002-4747-6191>

Other name formats: [Bayoumy, M.](#) [Zahran, M. B.](#) [Zahran, M.](#) [Zahran, Mohamed B.](#)

Subject area: [Engineering](#) [Energy](#) [Mathematics](#) [Computer Science](#) [Materials Science](#) [Earth and Planetary Sciences](#)

Top SciVal Topic: [Hybrid systems](#) | [Renewable energy resources](#) | [optimal sizing](#)



Get citation alerts [+](#) [Add to ORCID](#) [Request author detail corrections](#)

Follow this Author

View potential author matches

h-index: [0](#)

5

[View h-graph](#)

Documents by author

27

[Analyze author output](#)

Total citations

91 by **80** documents



Curriculum Vitae

Prof. Dr. Mohamed Zahran

Publications
Presentations
Projects
Conferences
Seminars
Honours and awards
Memberships
References
Citations

Courses

Certifications

اسم المقرر ورقمه	Level	Course Name & Code	
هكه 318 1. أساسيات الهندسة الكهربائية	3 rd	Fundamentals of Electrical Eng. EngE 318	
هعم 227 2. برمجة الحاسب المهيكلية	4 th	Structured Computer Programming EngG 227	
هكه 322 3. المعالج الدقيق	6 th	Microprocessor EngE 322	
كه 323 4. القياسات الكهربائية الإلكترونية 1	6 th	Electrical & Electronic Measurements I EngE 323	
هكه 513 5. الطاقة الجديدة والتجدة	9 th	Renewable Energy EngE 513	
هكه 524 6. مقرر اختياري 2 - الجهد العالي	10 th	Elective Course II "High Voltage" EngE 524	
هكه 566 7. مقرر اختياري 3 - طرق التحكم المتقدمة	10 th	Elective Course III "Advanced Control" EngE 566	
هكه 590 8. مشروع التخرج - "مواضيع متعددة"	9 th -10 th	Graduate Projects EngE 590	

اسم المحاضر : **أ.د. محمد بيومي عبدالقادر زهران** الكلية : **كلية الهندسة**

رقم المحاضر : **1967** التخصص : **هندسة القوى الكهربائية**

الفصل الثاني 1430/1431

المقر	الدرجة	رمز المقرر	اسم المقرر	النشاط	الشعبة
مقر الادارة العليا	البكالوريوس	318هكه-3	أساسيات الهندسة الكهربائية	نظري	88
مقر الادارة العليا	البكالوريوس	227هعم-3	برمجة الحاسوب المهيكلية	نظري	624

الفصل الاول 1431/1432

المقر	الدرجة	رمز المقرر	اسم المقرر	النشاط	الشعبة
مقر الادارة العليا	البكالوريوس	227هعم-3	برمجة الحاسوب المهيكلية	نظري	723

الفصل الثاني 1431/1432

المقر	الدرجة	رمز المقرر	اسم المقرر	النشاط	الشعبة
مقر الادارة العليا	البكالوريوس	322هكه-2	المعالج الدقيق	نظري	618

الفصل الاول 1432/1433

المقر	الدرجة	رمز المقرر	اسم المقرر	النشاط	الشعبة
مقر الادارة العليا	البكالوريوس	322هكه-2	المعالج الدقيق	نظري	595
مقر الادارة العليا	البكالوريوس	322هكه-2	المعالج الدقيق	نظري	596

الفصل الثاني 1432/1433

المقر	الدرجة	رمز المقرر	اسم المقرر	النشاط	الشعبة
مقر الادارة العليا	البكالوريوس	318هكه-3	أساسيات الهندسة الكهربائية	نظري	37
مقر الادارة العليا	البكالوريوس	322هكه-2	المعالج الدقيق	نظري	597

الفصل الاول 1433/1434

المقر	الدرجة	رمز المقرر	اسم المقرر	النشاط	الشعبة
مقر الادارة العليا	البكالوريوس	322هكه-2	المعالج الدقيق	نظري	593
مقر الادارة العليا	البكالوريوس	322هكه-2	المعالج الدقيق	نظري	594
مقر الادارة العليا	البكالوريوس	590هكه-4	مشروع التخرج	عملي	718

الفصل الثاني 1433/1434



رمز المقرر	اسم المقرر	النشاط الشعبة	اليوم	الوقت	القاعة
2-هكـ322	المعالج الدقيق	نظري	2	09:00 ص - 09:50 ص	1418
2-هكـ513	الطاقات الجديدة	نظري	1	03:00 م - 03:50 م	1235
2-هكـ513	الطاقات الجديدة	نظري	1	12:00 م - 12:50 م	142
2-هكـ***6	مقرر إختياري 2	نظري	2	01:00 م - 01:50 م	1234
2-هكـ***6	مقرر إختياري 2	نظري	1	07:00 م - 07:50 م	141

رمز المقرر	اسم المقرر	النشاط الشعبة	اليوم	الوقت	القاعة
2-هكـ513	الطاقات الجديدة	نظري	3	02:00 م - 02:50 م	1417
2-هكـ513	الطاقات الجديدة	تمارين	3	01:00 م - 01:50 م	1422
2-هكـ6***	مقرر إختياري 2	نظري	1	03:00 م - 03:50 م	142
2-هكـ6***	مقرر إختياري 2	نظري	3	11:00 ص - 11:50 ص	144
2-هكـ6***	مقرر إختياري 2	عملي	4	01:00 م - 02:50 م	15041
2-هكـ6***	مقرر إختياري 2	تمارين	4	08:00 ص - 08:50 ص	1421
2-هكـ6***	مقرر إختياري 2	عملي	5	02:00 م - 03:50 م	15041

١. الحصول على جوائز علمية من جهات متعددة

١.١. درع السلامة الكهربائية من وزارة المياه والكهرباء ، المملكة العربية السعودية، فبراير ٢٠١٤،

١.٢. شهادات المشاركة في تحكيم "إبتكار"، مسابقة سعودية للطلاب الموهوبين ذوي الأفكار الإبتكارية،

٢٠١٢ - ٢٠١٤

١.٣. درع مؤسسة الملك عبدالعزيز ورجاله للموهبة والإبداع، مقابل المشاركة في برنامج صناعة المستقبل للطلاب الموهوبين لعام ١٤٣٥، المملكة العربية السعودية،

١.٤. درع منتدي كفاءة الكهرباء، المملكة العربية السعودية،

١.٥. درع جامعة جازان، المملكة العربية السعودية،

١.٦. درع نقابة المهندسين عن المشاركة في برنامج الفضاء المصري

١.٧. جائزة التميز العلمي عن عام ٢٠١٤ - معهد بحوث الإلكترونيات - المركز الأول ٢٠١٤/٩/٢٨

٢. عضوية جمعيات علمية دولية

٢.١. IEEE Journal of Sensor, Reviewer, <http://mc.manuscriptcentral.com/sensors>

٢.٢. WSEAS Journal Reviewer,

<http://conferences.wseas.org/en/reviewersArea.action>

٢.٣. WSEAS and NAUN Committee Membership

٢.٤. WSEAS and NAUN Membership of The International Scientific Committee

٢.٥. Approved Reviewer for Scientific Research Projects at KAU-KSA, UQU-

KSA, MGU-KSA

٢.٦. Reviewer for STDF

Publications

Presentations

Projects

Conferences

Seminars

Honours and awards

Memberships

References

Citations

Courses

Certifications

Other Activities