**CURRICULUM VITAE**

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| **PERSONAL DETAILS: -** |  |
| **Full name** | **Zeyad Assi Obaid** |
| **Nationality** | Iraqi |
| **Languages** | **Arabic: Mother tongue****English:** very good forWorking, Studying, and Research |
| **Contact**  |  |
| **E-Mails**: zeyad.a.obaid@uodiyala.edu.iq zeyad.a.obaid@gmail.com **Scopus Author ID**: 35488567600**Web of Science ResearcherID**: [Q-2975-2019](https://publons.com/researcher/Q-2975-2019/) |
| **Postal Address** | College of Engineering, University of Diyala, Baqubah, Diyala, Iraq. |
| **Academic Qualifications** | **Ph.D. in Electrical Engineering**Institute of Energy, School of Engineering, Cardiff University, UK, April 2018.**Master Degree in Control and Automation Engineering**University Putra Malaysia, Selangor, Malaysia, May 2008.**Bachelor Degree in Control & Systems Engineering** University of Technology, Baghdad, Iraq, October 2006.**Professional Development Diploma** Awarded by Skills and Development Department, Cardiff Students Union, Cardiff University, June 2017. |
| **Worldwide Research Activities** | Author and Reviewer in high quality journals including IEEE transactions, Elsevier and Springer Journals. |
| **Current position** | Lecturer (Senior Lecture) at College of Engineering, University of Diyala, Iraq. |
| **Rsearch Interests** | Smart Grids, RESs Control and Operation, Microgrids, Frequency Control and Stability, Intelligent Applications to power systems |

**Academic Teaching, Instructor, Supervision, and other Academic duties**

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| *2018- Present* | Lecturer and Students SupervisorDepartment of Electric Power Engineering, College of Engineering, University of Diyala, Iraq |
| *Oct. 2015 – Dec 2017* | Examination scripts checking and Invigilating For undergraduate and postgraduate studies during the Ph.D. study at School of Engineering, Cardiff University, UK. |
| *Oct. 2010 – Feb. 2014* | Lecturer and Students Supervisor Computer and Software Engineering Department, College of Engineering Diyala University, Iraq. Teaching Subjects: Digital Signal Processing, Computer system architecture, Basics of Electrical Engineering, and Artificial Intelligent. Also, a supervision of more than 10 Final year projects.  |
|  May 2013 | CoordinatorThe National Communication Seminar in Iraq, College of Engineering, Diyala University, Diyala, Iraq.  |
| *Sept. 2009 – May 2010* | Teaching AssistantElectrical and Electronics Department, Faculty of Engineering, University Putra Malaysia.  |
| *Jan. 2007 – May 2008* | Instructor/SupervisorDevelopments program for Payroll Server, Ezdan Real Estate Company (International Constructions and Trading Company), Doha, Qatar. |
|  May 2013 | CoordinatorThe National Communication Seminar in Iraq, College of Engineering, Diyala University, Diyala, Iraq.  |

**Positions/Working Experiences**

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| *Nov. 2012 – Jan. 2014* | CoordinatorComputer and Software Engineering Department, College of Engineering Diyala University, Iraq. |
| *Nov. 2012 – Jan. 2014* | Member of the Examination Committee Computer and Software Engineering Department, College of Engineering Diyala University, Iraq. |
| *Nov. 2012 – Jan. 2014* | Member of the Scientific CommitteeComputer and Software Engineering Department, College of Engineering Diyala University, Iraq. |
| *Feb. 2007 – May 2008* | **Personnel Manager**Ezdan Real Estate Company (International Constructions and Trading Company), Doha, Qatar. |

**Attending International Conferences**

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| 25-30 September 2017 | **IEEE Power & Energy Society, Innovative Smart Grid Technologies Conference (ISGT Europe 2017)**Torino, Italy. |
| 17-20 July 2017 | **IEEE Power & Energy Society General Meeting**Grand Sheraton Chicago, Chicago, USA. |
| 27-29 June 2016 | **The 7th ENGIN School Research Conference** Cardiff School of Engineering, Cardiff, UK. |
| 1-4 September 2015 | **50th International Universities Power Engineering Conference (UPEC)**Staffordshire University, Staffordshire, UK. |
| 18-20 June 2015 | **The 6th ENGIN School Research Conference**Cardiff School of Engineering, Cardiff, UK. |
| 19 March 2009 | **NI Graphical System Design Summit, A LabVIEW and Data Acquisition Technical Conference**National Instruments, Selangor, Malaysia. |
| 11-13 October 2009 | **International Conference on MAN-MACHINE SYSTEMS**Penang, Malaysia. |
| 16-18 Nov. 2009 | **IEEE Student Conference on Research and Development (SCOReD 2009)**University Putra Malaysia, Serdang, Malaysia. |
| 16-17 December 2008 | **3rd International Conference on Postgraduate Education**Penang, Malaysia. |
| 2-3 June 2009 | **The 2nd International Conference on Control, Instrumentation and Mechatronic Engineering**Malacca, Malaysia. |

**Research and Professional Courses/Certificates**

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| *May 2017* | **Research Methods 3: The Thesis and the Viva** Course at School of Engineering, Cardiff University, UK. |
| *16 Jan. 2017* | **Technological Tools for Teaching**Course at Doctoral Academy, Cardiff University, UK. |
| *17 Jan. 2017* | **Classroom Management**Course at University and College Union (UCU), Cardiff University, UK. |
| *26 Jan. 2017* | **Organizing a Conference**Course at Doctoral Academy, Cardiff University, UK. |
| *31 Jan. 2017* | **Finishing Your PhD: Domain: B2 Self-management**Course at Doctoral Academy, Cardiff University, UK. |
|  *2016/2017* | **Certificate of Professional Development (CPD) in Communications**Cardiff Student Union, Cardiff University, UK.Contains: Listening and Awareness, Practical Presentations, Negotiation Skills, Customer Communication Skills, and Speaking and Presenting |
| January 2016 | **Assessing Student learning in the Sciences**Course at School of Engineering, Cardiff University, UK. |
| June 2015 | **Recognition as a Teacher in Higher Education**University Graduate College, Cardiff University, UK. |
| April 2015 | **Demonstrating/Laboratory Based teaching in the Sciences**University Graduate College, Cardiff University, UK. |
| 2014/2015 | **Certificate of Professional Development (CPD) in Leadership**Cardiff Student Union, Cardiff University, UK.Contains: Leadership Styles, Leadership in Difficult Situations, Coaching Skills, Assertiveness for Leaders, and Team Briefings (e-learning format). |
| 2015 | **Research Methods 1: Literature review and Research Methods 2: Preparing Conference Papers**Courses at School of Engineering, Cardiff University, UK. |
| 2015 | **Risk Assessment** CourseSchool of Engineering, Cardiff University, UK. |
| July-September 2014 | **Pre-sessional English Course**Cardiff, University, UK. |
|  March- June 2014 | **Upper-Intermediate English language and IELTS preparation**Courses at Celtic English Academy, Cardiff, UK. |
| October- December 2010 | **Teaching Method Course**Diyala University, Iraq. |

**Technical Workshops/Meetings, Seminars/Sessions, and Webinars**

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| 19 July 2017 | **Challenges, Opportunities, and Approaches for Integrating Demand Response in Markets and Distribution Systems**Panel Session at the IEEE PES GM, Grand Sheraton Chicago, Chicago, USA. |
| 19 July 2017 | **Working Group on Demand Response**At the IEEE PES GM, Grand Sheraton Chicago, Chicago, USA. |
| 18 July 2017 | **PES Smart Buildings, Loads and Costumer Systems Technical Committee Meeting**At the IEEE PES GM, Grand Sheraton Chicago, Chicago, USA. |
| 27 September 2016 | **System Operability Framework 2016 Post-assessment update**Webinar by National Grid (Power System Operator), UK. |
| 21 July 2016 | **System Operability Framework 2016 Mid-assessment update**Webinar by National Grid (Power System Operator), UK. |
| 19 July 2016 | **National Grid Future Energy Scenarios’, an overview of electricity supply from National Grid's 2016 Future Energy Scenarios** Webinar by National Grid (Power System Operator), UK. |
| 6 July 2016 | **Technical Visit and Seminar**National Grid Control Centre, Berkshire, UK. |
| 24 May 2016 | **System Operability Framework 2016 Pre-assessment update**Webinar by National Grid (Power System Operator), UK. |
| July 2015 | **Technical Visit and Seminar**Alstom Grid Site, Bedfordshire, UK. |
| March 2013 | **Presenting a Seminar entitled: High-Speed Technology**Computer and Software Engineering Department, College of Engineering, Diyala University, Iraq, |
| 11 February 2009 | **LabVIEW FPGA and Compact RIO Hands-On Workshop**National Instruments, Kuala Lumpur, Malaysia. |
| 16 April 2009 | **Multicore Programming with LabVIEW Hands-On Workshop**National Instruments, Selangor, Malaysia.  |
| 25-26 April 2009 | **Publishing for Postgraduates' Workshop**University Putra Malaysia, Malaysia. |
| 26 May 2009 | **Solving Sound and Vibration Applications Seminar**National Instruments, Hotel Armada, Malaysia. |
| 29 May 2009 | **Ethics and Legal Issues in Journal Publications workshop**University Putra Malaysia, Malaysia. |
| 18 June 2009 | **HMI and Programmable Automation Controllers (PAC) Programming Hands-On Seminar** National Instruments Office, Malaysia. |
| 7 July 2009 | **Introduction to LabVIEW and Fundamentals in Data Acquisition (DAQ) with Compact DAQ Hands-On Workshop**National Instruments Office, Petaling Jaya, Selangor 46300, Malaysia. |
| 8-9 August 2009 | **Effective Writing workshop**University Putra Malaysia, Malaysia. |
| 15-16 August 2009 | **The VIVA Workshop**University Putra Malaysia, Malaysia. |
| 18 August 2009 | **LabVIEW 8.6 Hands-On Workshop** National Instruments Office, Malaysia. |
| 27 August 2009 | **Enabling Technologies with Graphical System Design Summit** National Instruments, Hilton hotel, Malaysia. |

**Referees**

* Dr. Liana Cipcigan, *Professor*

PhD Supervisor, Institute of Energy, School of Engineering, Cardiff University, Cardiff, UK.

Email: CipciganLM@cardiff.ac.uk

* Dr. Nasri Sulaiman**,** *Professor*

Master Thesis Supervisor, Electrical and Electronics Engineering Department, Faculty of Engineering, University Putra Malaysia,

E-mail: nasri\_sulaiman@upm.edu.my

**List of Publications**

1. Muhssin, M.T., **Obaid, Z.A**., [Al-Anbarri, K.](https://www.scopus.com/authid/detail.uri?authorId=57205058636), Cipcigan, L.M., Ajaweed, M.N. “Local dynamic frequency response using domestic electric vehicle”, Elsevier International Journal of Electrical Power and Energy Systems, 2021.
2. [Sami, S.S.](https://www.scopus.com/authid/detail.uri?authorId=57190388005), [**Obaid, Z.A**.](https://www.scopus.com/authid/detail.uri?authorId=35488567600), [Muhssin, M.T.](https://www.scopus.com/authid/detail.uri?authorId=36680472700), [Hussain, A.N.](https://www.scopus.com/authid/detail.uri?authorId=57225944706), “Detailed modelling and simulation of different dc motor types for research and educational purposes”, [International Journal of Power Electronics and Drive Systemsthis link is disabled](https://www.scopus.com/authid/detail.uri?authorId=35488567600#disabled), 2021, 12(2), pp. 703–714.
3. [Salman, S.A.](https://www.scopus.com/authid/detail.uri?authorId=57212390531), [**Obaid, Z.A**.](https://www.scopus.com/authid/detail.uri?authorId=35488567600), [Hameed, H.S.](https://www.scopus.com/authid/detail.uri?authorId=57202363314), “Stability and performance evaluation of the speed control of DC motor using state-feedback controller”**,** Indonesian Journal of Electrical Engineering and Computer Science, 2021, 22(3), pp. 1372–1378.
4. **Zeyad Assi Obaid,** Raghad Ali Mejeed and Abduallah Al-Mashhadani**, ‘**Investigating the Impact of using Modern Power System Stabilizers on Frequency Stability in Large Dynamic Multi-Machine Power System’**,** Accepted in IEEE UPEC 2020, Italy.
5. **Z. A. Obaid**, L. M. Cipcigan, S. S. Sami, and M. T. Muhssin,’ Control of a Population of Battery Energy Storage Systems for Frequency Response’, Elsevier International Journal of Electric Power and Energy Systems.
6. **Zeyad Assi Obaid,** M. T. Muhssin, and L. M. Cipcigan, ‘A Model Reference -based Adaptive PSS4B Stabilizer for the Multi-Machines Power System’, Springer Journal of Electrical Engineering.
7. **Zeyad Assi Obaid**, L. M. Cipcigan, and M. T. Muhssin, ’Frequency Control of Future Power Systems: Reviewing and Evaluating the Challenges and New Control Methods’, Springer Journal of Modern Power Systems and Clean Energy, 28 August 2018.
8. M. T. Muhssin, L. M. Cipcigan, N. Jenkins, S. Slater, M. Cheng, and **Z. A. Obaid**, ‘Dynamic Frequency Response from Controlled Domestic Heat Pumps’, IEEE Transactions on Power Systems, Vol. PP, Issue: 99.
9. M. T. Muhssin, L. M. Cipcigan, N. Jenkins, S. S. Sami and **Z. A. Obaid**, ‘Potential of Aggregated Load Control for the Stabilization of the Grid Frequency’, Journal of Applied Energy, Vol. 220, 15 June 2018, P. 643–656.
10. M. T. Muhssin, L. M. Cipcigan, N. Jenkins, M. Cheng, and **Z. A. Obaid**, ‘Potential of a Population of Domestic Heat Pumps to Provide Balancing Service’, Journal Tehnički vjesnik/Technical Gazette, vol. 25, pp. 709-717, 2018.
11. **Zeyad Assi Obaid,** L.M. Cipcigan, Mazin T. Muhssin, and Saif Sabah Sami,’ Development of a Water Heater Population Control for the Demand-side Frequency Control’, IEEE PES Innovative Smart Grid Technologies, Europe (ISGT Europe), 26-29 September 2017, Turin, Italy.
12. **Zeyad Assi Obaid,** L.M. Cipcigan, and Mazin T. Muhssin,’ Power System Oscillations and Control: Classifications and PSSs’ Design Methods: A review’, Elsevier Renewable & Sustainable Energy Reviews, Vol. 79, P: 839–849, 2017.
13. **Zeyad Assi Obaid,** L.M. Cipcigan, and Mazin T. Muhssin, ‘Design of a Hybrid Fuzzy/Markov Chain-based Hierarchal Demand-side Frequency Control’, the 2017 IEEE Power and Energy Society General Meeting, Chicago, USA, 17-20 July 2017.
14. Mazin T Muhssin, Liana M Cipcigan, **Zeyad A. Obaid** and Wissam F AL-Ansari, ‘A novel adaptive deadbeat- based control for load frequency control of low inertia system in interconnected zones north and south of Scotland, Elsevier International Journal of Electrical Power & Energy Systems, Vol. 89, P: 52-61, 2017.
15. [Mazin T. Muhssin](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=%22Authors%22:.QT.Mazin%20T.%20Muhssin.QT.&newsearch=true), [Liana M. Cipcigan](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=%22Authors%22:.QT.Liana%20M.%20Cipcigan.QT.&newsearch=true), [Nick Jenkins](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=%22Authors%22:.QT.Nick%20Jenkins.QT.&newsearch=true), [,](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=%22Authors%22:.QT.Meng%20Cheng.QT.&newsearch=true) and [**Zeyad A. Obaid**](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=%22Authors%22:.QT.Zeyad%20A.%20Obaid.QT.&newsearch=true)**,** ’[Modelling of a population of Heat Pumps as a Source of load in the Great Britain power system](http://ieeexplore.ieee.org/document/7765642/)’,IEEE[International Conference on Smart Systems and Technologies (SST)](http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=7761917), Croatia, 12-14 Oct. 2016.
16. **Zeyad Assi Obaid,** L.M. Cipcigan, and Mazin T. Muhssin, ’Fuzzy Hierarchal Approach-Based Optimal Frequency Control in the Great Britain Power System’, Elsevier Electric Power Systems Research, [Volume 141](http://www.sciencedirect.com/science/journal/03787796/141/supp/C), December 2016, Pages 529–537.
17. **Zeyad Assi Obaid**, ‘Investigating the effect of the Future Inertia Reduction on the Whole Stability of the Multi-Machines Great Britain’s Power System’, The Proceedings of the ENGIN School Research Conference, 27-29 June 2015, Cardiff School of Engineering, UK.

## [Muhssin, Mazin T.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=%22Authors%22:.QT.Muhssin%2C%20Mazin%20T..QT.&newsearch=true); [Cipcigan, L.M.](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=%22Authors%22:.QT.Cipcigan%2C%20L.M..QT.&newsearch=true); and  [Zeyad Assi](http://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=%22Authors%22:.QT.Obaid%2C%20Zeyad%20Assi.QT.&newsearch=true) Obaid, ‘[Small Microgrid Stability and Performance Analysis in Isolated Island’](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7339911), IEEE 50th International Universities Power Engineering Conference (UPEC), Staffordshire University, UK, 1-4 Sept 2015.

1. **Zeyad Assi Obaid,** L. Cipcigan, and Mazin T. Muhssin, ‘[Analysis of the Great Britain’s Power System with Electric Vehicles and Storage Systems’](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7325555) IEEE 18th International Conference on Intelligent System Application to Power Systems (ISAP), 11-16 Sept. 2015, Porto, Portugal.
2. Mohammad S. Saleh**, Zeyad Assi Obaid** and Zuhair S. Al-Sagar, ‘[Design And Implementation Of A Remote Sensor-Based Access Control System Using PIC-micro Controller](http://www.enginmag.uodiyala.edu.iq/uploads/Vol.%208%2C%20No.4%20Conference%202/Computer_Communication/2%20441-452.pdf)’, Diyala Journal of Engineering, Second Engineering Scientific Conference College of Engineering –University of Diyala 16-17 December. 2015, pp. 441-452.
3. **Zeyad Assi Obaid,** Saad Abdalmageed Salman and Ibrahim Saadon”*Analysis and Performance Evaluation of the Position Control of an AC Motor using PD-PI-PID Fuzzy Logic Controller***,** British Journal of Mathematics and Computer Science.4(6), 2014.
4. **Zeyad Assi Obaid,** Saad AbulMajeed Salman, Nasri B Sulaiman, M. H. Marhaban, M. N. Hamidon and Hazem I. Ali **“**[Design of PSO-based Optimal/Tunable PID Fuzzy Logic Controller Using FPGA](http://cdn.intechopen.com/pdfs-wm/21950.pdf)**”** chapter 11 of a Book entitled “MATLAB – A Ubiquitous Tool for the Practical Engineer” Published by InTech - Open Access publisher in the fields of Science, Technology and Medicine, October 2011.
5. **Zeyad Assi Obaid**, Nasri B Sulaiman, M. H. Marhaban and M. N. Hamidon “[*Analysis and Performance Evaluation of PD-like Fuzzy Logic Controller Design Based on Matlab and FPGA*](http://www.iaeng.org/IJCS/issues_v37/issue_2/IJCS_37_2_04.pdf)*”*IAENG International Journal of Computer Science, Vol. 37, Issue 2, Pages: 146-155, 13 May 2010.
6. **Zeyad Assi Obaid**, Nasri B Sulaiman, M. H. Marhaban and M. N. Hamidon “[*Implementation* *of Multistructure PID-like Fuzzy Logic Controller using Field Programmable Gate Array*](http://www.jstage.jst.go.jp/article/elex/7/3/132/_pdf)” IEICE Electronics Express, Vol. 7 No. 3, P:132-137, 10 February 2010.
7. **Zeyad Assi Obaid** andNasri B Sulaiman*“*Design of Fuzzy Logic Controller for the Physical Systems on the Reconfigurable FPGA System*”,* Proceeding of the 2nd International Conference on Control, Instrumentation and Mechatronic Engineering, Malacca, Malaysia, 2-3 June 2009, Page(s):30-35.
8. **Zeyad Assi Obaid,** Nasri B Sulaiman and M. N. Hamidon “[*Design Representation of the Multipurpose Fuzzy Logic Controller using Hardware Description Language*](http://dspace.unimap.edu.my/dspace/bitstream/123456789/7297/1/Design%20Representation%20of%20the%20Multipurpose%20Fuzzy.pdf)*”*Proceeding of the International Conference on MAN MACHINE SYSTEMS, Penang, Malaysia, 11-13 October 2009, Paper ID: 2B2, Page(s): 1-7.
9. **Zeyad Assi Obaid,** Nasri Sulaiman and M. N. Hamidon“[*Design of Fuzzy Logic Controller for AC Motor Based on Field Programmable Gate Array*](http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=5442956)” Proceeding ofIEEE Student Conference on Research and Development (SCOReD 2009), 16-18 Nov. 2009, UPM Serdang, Malaysia, Page(s):487- 490.
10. Mohammed Obaid Ali, S. P. Koh, 1K. H. Chong, S.K.Tiong and **Zeyad Assi Obaid "**[*Genetic Algorithm Tuning Based PID Controller for Liquid-Level Tank System*](http://dspace.unimap.edu.my/dspace/bitstream/123456789/7398/1/Genetic%20Algorithm%20Tuning%20Based%20PID%20Controller.pdfhttp%3A/dspace.unimap.edu.my/dspace/bitstream/123456789/7398/1/Genetic%20Algorithm%20Tuning%20Based%20PID%20Controller.pdf)"Proceeding of the International Conference on MAN MACHINE SYSTEMS, Penang, Malaysia, 11-13 October 2009.
11. Muhssin M. T., Ahmed R. K. R., Marhaban M. H., Zaludin Z. A. B., Mohamady S., and **Zeyad Assi Obaid** '' *Development of the Propagation Paths and Selection of Modes for Feedforward with Feedback Inclusion ANC System by Using State-Space Formulation*'', 3rd International Conference on Postgraduate Education, Dec. 2008.
12. **Zeyad Assi Obaid,** Nasri B Sulaiman and M. N. Hamidon “[*Developed Method of FPGA-based Fuzzy Logic Controller Design with the Aid of Conventional PID Algorithm*](http://www.insipub.com/ajbas/2009/2724-2740.pdf)*”,*Australian Journal of Basics and Applied Science, Vol. 3(3), P: 2724-2740, 2009.
13. Nasri B Sulaiman, **Zeyad Assi Obaid,** M. H. Marhaban and M. N. Hamidon*“*[*FPGA-Based Fuzzy Logic: Design and Applications – A Review*](http://www.ijetch.org/papers/90New.pdf)*”*International Journal of Engineering and Technology, Vol. 1, No. 5, p: 491-502, December 2009.
14. **Zeyad Assi Obaid,** Nasri B Sulaiman and M. N. Hamidon “[*FPGA-based Implementation of Digital Logic Design using Altera DE2 Board*](http://paper.ijcsns.org/07_book/200908/20090827.pdf)*”* International Journal of Computer Science and Network Security, Vol.9 No.8, P: 186-194, July 2009.
15. Nasri B Sulaiman, **Zeyad Assi Obaid,** M. H. Marhaban and M. N. Hamidon *“*[*Design and Implementation of the FPGA-based Systems - A Review*](http://www.insipub.com/ajbas/2009/3575-3596.pdf)” Australian Journal of Basics and Applied Science, Vol. 3(4): 3575-3596, 2009.
16. **Zeyad Assi Obaid**, Nasri B Sulaiman and Mazin T. Muhssin, ‘*Design of Fuzzy Logic Controller using FPGA for the Nonlinear Systems*”, Proceeding of the 3rd International Conference on Postgraduate Education, Page: 1-10, Penang, Malaysia, 16-17 December 2008.