

Curriculum Vitae

Dr. Ibrahim Ismael HAMARASH *(PhD. MSc. BSc. Eng.)*

Assist. Professor of Electrical Engineering
Department of Electrical Engineering
College of Engineering, Salahaddin University-Erbil
Erbil, Kurdistan, Iraq

Cell.: +964-7504451357, Home: +9647504492622
Official e-mail: ibrahim.hamarash@vp-salahaddin.net
Personal e-mail: ibrahim_hamarash@yahoo.com
URL: www.gaugamela.net/ibrahim.htm

PERSONAL

Birth Date: July 1, 1967
Family Status: Married, Two Daughters; Shan & Lala
Permanent Address: English Village 328,
Erbil, Kurdistan, Iraq
Languages: English, Spoken and written (Excellent)
Arabic, Spoken and written (Fluent)
Kurdish (Mother tongue)

EDUCATION

Postdoctoral Research(6 months research), 2007, Monash University, Melbourne, VIC, Australia.
Ph.D. Electrical Engineering (Major: Control Systems Engineering),1999, University of Technology-Baghdad, Dept. of Electrical & Electronics Eng. Thesis Title:
"Damping of Low Frequency Oscillations in Large Electrical Power Systems using Selected Modes Pole Assignment Controller".
M.Sc. Electrical Engineering (Major: Control Systems), 1993, University of Mosul, Mosul, Iraq. Thesis Title: "A Numerical Method For Pole Assignment Synthesis of Linear Time Invariant Control Systems Using State Feedback"
B.Sc. Electronics and Communications Engineering, 1988, University of Salahaddin, Erbil, Kurdistan, Iraq.

ACADEMIC CERTIFICATES, HONORS & AWARDS

- Endeavour Award, 2008, Dept of Education, Employment and Workplace Relations, Australian Government.
- Project Management Certificate, 2005, Beyster Institute, Rady School of Management, University of California in San Diego, CA, USA.

EMPLOYMENT HISTORY

- 2010- present Vice President for Scientific Affairs and Postgraduate Studies, Salahaddin University Erbil, Erbil, Kurdistan, Federal Republic of Iraq.
- 2008- 2010 Head of the Electrical Engineering Dept, College of Eng, Salahaddin University-Erbil, Erbil, Kurdistan, Iraq.
- 2007-2008 Head of Computer License Test Committee, Salahaddin University, Erbil. Kurdistan.
- 2007-2007 Academic Visitor, Monash University, Melbourne, Victoria, Australia.
- 2005-2007 Assist. Professor at The Dept. of Electrical Eng, College of Engineering, University of Salahaddin-Erbil.
- 2000-2004 Founder and Head of the Department of Software Engineering, College of Engineering., University of Salahaddin/Hawler, Kurdistan, Iraq.
- 1999-2000 Computer Center Director, College of Engineering, Salahaddin University-Erbil , Erbil, Kurdistan, IRAQ.
- 1999-2005 Lecturer, Department of Electrical Engineering, College of Engineering, Salahaddin University-Erbil.
- 1994-1998 Founder and Owner, Zanco for Computers Ltd., Erbil, Kurdistan, Iraq.
- 1993-1999 Assistant Lecturer, Department of Electrical Engineering, College of Engineering, University of Salahaddin-Erbil.
- 1988-1991 Electrical Engineer, Trudbinik Ltd.(A Yugoslavian Company), Baghdad, Iraq.

RESEARCH INTERESTS

Modeling & Simulation of Dynamic Systems, Control Systems Engineering, Information Systems and Automation, Power System Modeling and Simulation.

INDUSTRY EXPERIENCE

- 2010 Design and Implementation of a Mobile Education Center for Regenerative Energy and Automation, with the University of Applied Science-Karlsruhe, Germany.
- 2006 Project Manager, e-Parliament, with B-Plan Information Systems Ltd.(UK based Company) for Kurdistan Parliament.
- 2005 Localization of Operation Manuals (in Kurdish) for A newly Installed Water Station in Erbil (Kurdistan, IRAQ) for Goulds Pumps(USA) and Agenew(USA).
- 2005 System Analysis, Localization, Database Design, Implementation, Manual Development and Training for PERIS: HR and Payroll System, with B-Plan IS Ltd(UK), B-Plan Ukraine and the Ministry of Education, Erbil, Kurdistan, Iraq.
- 2004 Project Manager, ICT infrastructure development and installation for the Ministry of Education, Kurdistan, Iraq, with B-Plan IS Ltd (UK Company),2004-2005.
- 2002 Project Manager, Three Months IT Converting Course for 600 High School Teachers in Kurdistan Region, for UNESCO and The Ministry of Education, KRG, Erbil, Kurdistan.

- 2001 Control Site Design of Azmir-Sulaimani Substation, Zozik Ltd. and UNDP, Erbil.
- 2001 Control & Wiring Design of Chambarakat-Duhok Water Station (with Dr. Kamal Haj nabi), UNICIEF, Erbil.
- 2000 Erbil 29 MW Power Station Project, Design and Analysis Team, Engineering Bureau and UNDP, College of Engineering, Erbil.

GRANTS

- 2009 DAAD academic visitor for 10 days, Germany, A visit to Karlsruhe University for Applied Science to design and implement a mobile renewable energy training centre.
- 2007 Endeavour Research Fellowship, Dept. of Education, Science and Training, Australia, (25,000 A\$)
- 2004 NSF(USA), all registration fees, flights, accommodation and live expenses for participation in IEEE-Artificial Intelligence and MED04 conferences, Istanbul, Turkey.
- 2000 UNESCO, Kurdistan Office, Grant, Supporting a Research Titled "PC Based Relay Test Systems", Total amount of the grant: \$1700.

COURSES ATTENDED

- 2011 Higher Education Leadership and Management in Iraq, Leadership Foundation for Higher Education, British Council and BIS, Nottingham, UK.
- 2005 MEPI, Middle East Entrepreneur Training in the United States (MEET U.S.), funded by the Bureau of Near Eastern Affairs, Office of the Middle East Partnership Initiative, U.S. Department of State, and administered by FED.", San Deigo, USA.
- 2001 Election Processes Observation, Organized by Electoral Reform Society in London and OSCE, Erbil, Kurdistan, Iraq.

SELECTED CONFERENCES (as a Speaker and/or paper presenter)

1. Middle East Entrepreneur Training (MEET) Alumni Conference, US dept of State, Istanbul, August 4-5, 2009 , Turkey.
2. International Congress on Engineering, WCE2008, 2-4 July 2008, London, UK.
3. Middle East Entrepreneur Training (MEET) and Legal and Business Fellowship Program (LBFP) Joint Alumni Conference, Middle East Partnership Initiative (MEPI) at the U.S. Department of State 9-11 June 2008, Dead Sea, Jordan.
4. Kurdistan Contracting Engineering Organizations (K-CEDO), 27-29 May 2008, Erbil, Kurdistan, Iraq.
5. International Control Conference-ICC2006, 30 Aug-1 Sept 2006 Strathclyde University, Glasgow, UK.
5. MEET US Alumni Conference, US Dept of State, 16-17 Nov.,2005, Manama, Bahrain.
6. 35th International Conference on Computer & Industry Eng.,19-22 June, 2005, Istanbul, Turkey.
7. The 2nd International OECD of Ministries responsible for Small and Medium Size Enterprises (SMEs), 3-5th June 2004, Istanbul, Turkey.

8. The IEEE International Conference on Mechatronics(ICM'04), 3-5th June 2004, Istanbul, Turkey.
9. The 12th IEEE Mediterranean Conference on Control & Automation, June,6-9, 2004,Izmir, Turkey
10. A Workshop in Cooperation between the university of Duhok and Baylor University (USA) for Developing Engineering and Computer Science Syllabi, 17-19th Dec.2003, Duhok.
11. International Conference on Control Applications, Istanbul, Turkey, 23-25th June,2003.
12. The 1st Program and Syllabi Conference of The University of Salahaddin, April, 2001, Erbil, Iraq(Editorial Board).
13. The 3rd Education Conference of The Ministry of Education (Computer Sector), 2001,Erbil, Iraq.
14. The 3rd International Conference on Computational Aspects and Their Applications in Electrical Engineering, Philadelphia University, Jordan, 19-20th October 1999.
15. The 1st Computer Technology Conference and Exhibition (Member of Administration Committee), Ministry of Transportation and Communication, April 1998, Erbil, Iraq.

SELECTED PAPERS

1. Ibrahim I Hamarash, Qaysar S Mahdi, and Jamal A Hassan, "Availability Analysis of GSM Network Systems", 978-1-4244-6908-6/10©2010 IEEE.
2. Ibrahim I Hamarash, "Modeling and Simulation of the Perdawd CCGS Connected to the Kurdistan Regional Power System of Iraq Using Simulink", Lecture Notes in Engineering and Computer Science, Vol 2170, Issue 1, 2008, PP 381-385.
3. Ibrahim I. Hamarash, "Modeling and Simulation of Perdawd CCPS Connected to Kurdistan Regional Power System of Iraq", Proceedings of WCE Conference, London, UK, 2-4 July 2008.
4. Sensitivity of Large System Parameters to Perturbations: a Data Mining Approach, Zanco, Vol. 6, No.3, 2008.
5. Ibrahim I. Hamarash & Dlawer Maroof, "Monitoring of Power System Control Functions: A Database Approach", Proc. of ELECO2007, Bursa, Turkey, 5-9 Dec 2007.
6. Ibrahim I. Hamarash, "Application of ANN to Low Frequency Oscillations Detection in Iraqi National Power System", International Control Conference-ICC2006, Glasgow, UK, 30 Aug-1 Sept 2006.
7. Ibrahim I. HAMARASH, "Eigenvalues Sensitivities of Systems With State Feedback to Structured Perturbations in System Parameters", WSEAS Transactions on Applied Mathematics, Vol. No. , June 2006.
8. Ibrahim I. HAMARASH and Diari Rauf, "Dynamic Voltage Frequency Scaling (DVFS) for Microprocessor Power & Energy Reduction", The Proc. Of 4th In. Conf. on Electrical & Electronics Engineering, 7-11 Dec.2005, Bursa, Turkey.
9. Ibrahim Ismael Hamarash, "Application of Neural Network Method to the Small Signal Stability Analysis of Iraqi Power System", Proceedings of the 35th International Conference on Computer& Industry Eng.,19-22 June, 2005, Istanbul, Turkey.

10. Ibrahim Ismael Hamarash, Nian A.K, and Amin Abas, "Reliability Assessment of the Ministry of Education's ICT Infrastructure System", Proceedings of the 35th International Conference on Computer & Industry Eng., 19-22 June, 2005, Istanbul, Turkey.
11. Ibrahim Ismael Hamarash "Small Signal Stability Analysis of Iraqi National Power System", MED'04 (with IEEE) Conference, Turkey, June 2004.
12. Ibrahim Ismael Hamarash "A PC Based Real Time Remote Control for a Kid's Game Car", The Scientific Journal of Duhok University, No.2, 2004.
13. Ibrahim Ismael Hamarash & Fadhil T. Aula "Interface Implementation of Parallel Port of PC for Testing Over current Relays", ZANCO: Journal of Pure and Applied Science, Salahaddin-Erbil University, Vol.14, No.2, 2002, PP.5-14.
14. Ibrahim Ismael Hamarash & Kosay Abdul-Sattar "Improving The Stability of a Synchronous Generator Using Prespecified Root Controller", Proceedings of CATAEE'99, The Third International Conference on Computational Aspects and Their Applications in Electrical Engineering'19-20, Oct. 1999, Philadelphia University, PP.371-379.
15. Ibrahim Ismael Hamarash & Kosay Abdul-Sattar "Changing The Stability Mode of a Power System Using Prespecified Pole Controller", The Scientific Journal of Tikrit University, Vol.6, No.4, 1999, PP.136-162.
16. Ibrahim Ismael Hamarash "Pole Assignment Controller Design For Multi Area Power System", Journal of Duhok University, Vol.2, No.6, 1999, PP.823-839.
17. Ibrahim Ismael Hamarash & Ali Husain, "Sensitivity Analysis For Pole Assignment Problems", Al-Rafidain Eng. Journal, Vol.6, No.1998, PP.37-45.
18. Ibrahim Ismael Hamarash & Amin Abbas, "A Computer Aided Design For Root-Locus Plotting", Proc. Of Scientific Conf., 3-4 June 1997, Erbil, PP.193-198.
19. Ibrahim Ismael Hamarash & Ali Husain, "A Flexible Algorithm For Pole Assignment Synthesis Using State Feedback Controller", Engineering and Technology- Baghdad, Vol, No. PP. 1994.

TEACHING EXPERIENCE

1. Undergraduate Courses

- | | |
|-----------|--|
| 1993-2010 | Control Engineering, Dept. of Electrical Eng., College of Eng., University of Salahaddin-Erbil. |
| 2000-2006 | Database Systems, Dept. of Software Eng., College of Eng., University of Salahaddin-Erbil. |
| 2000-2005 | Computer Control Systems, Dept. of Software Eng., College of Eng., University of Salahaddin-Erbil. |
| 2000-2005 | Computer Architecture, Dept. of Software Eng., College of Eng., University of Salahaddin-Erbil. |
| 2000-2001 | Computer Organization, Dept. of Computer Science, College of Education, University of Salahaddin-Erbil. |
| 2000-2003 | Principles of Computer Programming, Dept. of Electrical Eng., College of Eng., University of Salahaddin-Erbil. |

2. Postgraduate Courses

- 2008-2009 Information System Integration, (MSc, Dept of Software Eng, College of Engineering and Dept of Computer Science, College of Education, Salahaddin University-Erbil).
- 2007-2008 Computer Organization, (MSc Electronics and Communication Eng, Univ. of Salahaddin-Erbil).
- 2005-2006 Advance Control Systems, (PhD. in Mechanical Engineering), Dept. of Mechanical Eng., University of salahaddin-Erbil, Kurdistan, Iraq
- 2005-2006 Computer Architecture and Parallel Processing, (MSc. In ICT), Dept. of Electrical Eng., University of salahaddin-Erbil, Kurdistan, Iraq
- 2005-2006 Data Modeling, (MSc in ICT.), Dept. of Electrical Eng., University of Salahaddin-Erbil, Kurdistan, Iraq.
- 2005-2006 Control Theory, (MSc in Power Engineering), Dept. of Electrical Eng., University of Salahaddin-Erbil, Kurdistan, Iraq.
- 2004 -2005 Dynamic Systems (MSc in Power Ssystems), Dept. of Elect. Eng., University of Sulaimani, Sulaimani, Kurdistan, Iraq
- 2003-2004 Computer Architecture,(Higher Diploma in IT) Dept. of Software Eng., College of Eng., University of Salahaddin-Erbil.
- 2003-2004 Data Modeling and Database Systems,(Higher Diploma in IT) Dept. of Software Eng., College of Eng., University of Salahaddin-Erbil.
- 2002-2003 Data Modeling, (Ph.D. in Statistics) Dept. of Statistics, College of Administration and Economic, University of Salahaddin-Erbil.
- 2001-2004 Modern Control Engineering,(MSc in Power Systems.) Dept. of Electrical Eng., College of Eng., University of Sulaimani, Sulaimani. And College of Engineering, Salahaddin University-Erbil, Erbil.

3. Crash Courses

- 2005 Human Recourses (HR) Systems, Ministry of Education, Kurdistan, Iraq
- 2003 Data Modeling and Database Systems, College of Engineering and UNESCO, Erbil, Kurdistan, Iraq.
- 2002 Developing Computer Skills for the Administration Staff (Deans and President) of the University of Salahaddin/Hawler, UNESCO.
- 2002 Establishment of a Computer Program Syllabus for 3 months Converting Course for the Secondary School Mathematics and Physics Teachers to teach Computers, UNESCO, Erbil and Duhok,(head of the committee).
- 2002 Database Systems, Technical Institute of Erbil and UNESCO, Erbil. Kurdistan, Iraq.
- 2000 Computer Maintenance and Repair, UNESCO and the University of Salahaddin/Hawler, Erbil, Kurdistan, Iraq
- 2000 Computer Applications, UNESCO and the Ministry of Education, Erbil, Kurdistan, Iraq

4. Selected Seminars

- 2009 Modeling and Simulation of the Electrical Energy System of Kurdistan Region, Ministry of Electricity, KRG, Kurdistan.
- 2005 Kurdistan: the other Iraq, Grand Hyatt, San Diego, USA.
- 2005 Healthcare Information Systems, Ministry of Health, Sulaimani, Kurdistan, Iraq.

- 2002 Internet Based Dictionaries, Kurdish Writer's Union, Erbil, Kurdistan, Iraq.
- 1998 Embedded Systems, Ministry of Transportation and Communication, First Computer Exhibition, Erbil, Kurdistan, Iraq.

GRADUATE STUDENTS

1. Arazw Saed, Thesis Title: Availability Analysis of MoH/KRG's ICT Infrastructure, College of Education, Dept of Computer Science, Salahaddin University-Erbil, March 2011.
2. MSc Student: Huda AbdulJabar, Thesis title: Modeling and Simulation of Chamchamal Gas Power Station Using SIMULINK, College of Engineering, Salahaddin University-Erbil, July 2010.
3. MSc Student: Jamal Abdulla, Thesis title: Survivability Assessment of Networked Control Systems, College of Engineering, Salahaddin University-Erbil, Expected to be completed on July 2010.
4. MSc Student: Pola Abd-Alhameed, Thesis Title: Design and Implementation of a DataBot", College of Engineering, University of Salahaddin-Erbil, June 2008.
5. MSc Student: Ari Arif, Thesis Title: Application of Data Mining in Power System Small Signal Stability Analysis", College of Engineering, University of Salahaddin-Erbil, May 2008.
6. MSc. Student: Diari Raouf Othman, Thesis Title:" Energy Dissipation Analysis of General Purpose Microprocessors", College of Engineering, University of Salahaddin-Erbil, July 2005.
7. MSc. Student Dlawer Raouf, Thesis Title:" Monitoring of Power System Control Functions: A Database Approach", College of Engineering, University of Salahaddin-Erbil, Nov 2005.
8. MSc. Student: Fadhil Tawfiq Aula, Thesis Title: "Interface Implementation of Parallel Port of PC for Testing Over current Relays ", College of Eng, University of Salahaddin-Erbil, Aug.2002.

EXTERNAL EXAMINER AT POST GRADUATE THESIS

1. Kamaran Muhamaed, "Optimization of an e-recruitment system", PhD in Computer Science, University of Sulaimani, April 2009
2. Bnar faisal Daham, "Performance measuring of TCP/IP networks", MSc in Software Eng, Salahaddin University-Erbil, Nov 2008.
3. Ari Abdullah, "Motion compensation based on spatial transformations", PhD in Computer Science, University of Sulaimani, April 2008.
4. Ary Akram,"Voltage Collapse in Kurdistan Power System", MSc. in Elect. Eng., College of Eng., University of Salahaddin-Erbil, Erbil, July 2005.
5. Shler Aiz,"Kurdish Character Recognition Using HMM", Higher Diploma in IT, College of Eng., University of Salahaddin-Erbil, Erbil, July 2005.
6. Nawroz Nuraddin, "A Programming System for Knapsap Public Key Encyption", Higher Diploma in IT, College of Eng., University of Salahaddin-Erbil, Erbil, July 2005.
7. Warqa Abdul-Razaq, " Using Genetic Algorithms in PCB Soldering", Dept. of Computer Eng., University of Mosul, Mosul. February 2004.

8. Jalel Aziz ,”Line of Sight UHF and VHF Communications in Erbil City”, College of Eng., University of Salahaddin, Erbil, February 2004.
9. Gamgin Faraj, “Reliability Assessment of Sulaimani Transmission Network”, MSc., College of Eng., Sulaimani University, Nov. 2003.
10. Chalang Hama Rashed, “Design of a Control System for the Pelton Turbine Based on its Optimum Behavior”, College of Eng., University of Salahaddin-Erbil, Erbil, August 2003.
11. AbdulRahman M. Rashed, “Reliability Assessment of Sulaimani Distribution Network”, MSc., College of Eng., Sulaimani University, Sept 2003.

PUBLISHED BOOKS

1. Computers, Text Books, Book-1 and Book-2(in Kurdish)), for 1st and 2nd Years Secondary Schools(13&14 years students) in Kurdistan Region, Ministry of Education, Erbil, 2004 and 2005 respectively.
2. Rembrandt and Other Essays (in Kurdish), Shvan Press, Sulaimani, 2002.
3. Microsoft Word 2000: An Introduction(in Kurdish), 1st Edition: Mardin Press, Erbil,2000, 2nd Edition, Shvan Press, Sulaimani,2002.
4. Computer Dictionary: English-Kurdish, MEDIA Publishers, Erbil,1999. Included in a Step by Step English learning Series, Lebanese Cultural Centre, Lebanon, 2011.

BOOK'S REVIEW

2000-2005 All Computer and Mathematics text Books for the Ministry of Education (for example: Introduction to Pascal (Arabic and Kurdish versions), Introduction to MS-Word, Introduction to Computer Systems, Programming in GWBasic,..etc.) , Kurdistan Region, Erbil, Iraq.

AFFILIATIONS

1. IEEE (Institute of Electrical and Electronics Engineering, USA), since 2006.
2. Iraqi Engineers Union, Consultant Engineer, since 1988.
3. Kurdistan Engineers Union, Consultant Engineer, since 1991.

REFERENCES

1. Rob Fuller (PhD), Director of Entrepreneur Development Program, UCSD, CA, USA, email: <rlfuller@beysterinstitute.ucsd.edu>
2. Carl D. Crane (Professor), Dept. of Mechanical Engineering & Aerospace Eng., University of Florida, (USA) e-mail: <ccrane@ufl.edu>.
3. David Royle, B-Plan Information Systems Ltd., UK. E-mail:<david.royle@b-plan.com>, tel:00447713214626(UK).
4. Dillshad Khidr(PhD), Ex-Head of Software Eng. Dept., University of Salahaddin/Hawler, Kurdistan, Iraq. E-mail:<dillshad.amen@eng-usalah.org>, mobile no: 00964-750 4486419.
5. Shawnim Jalal (PhD), Dean of the Engineering College, University of Salahaddin/Hawler, Kurdistan, Iraq. e-mail shawnim100@yahoo.com.
6. Nawzad H. Mawlood, The Mayor of Erbil, Kurdistan, Iraq, e-mail: <nawzad_erbil@yahoo.com>, Mobile number: 00964-7504452454.

7. Ahmed A Dzayee(PhD), President of the Salahadin University-Erbil, Erbil, Kurdistan, Iraq, email:ahmeddezaye@yahoo.com, mobile number: 009647504481025.

Last Updated: March 2011