
Ibrahim A. Farhat, Ph.Dibrahimfarhat@yahoo.comibrahimfarhat@dal.ca**Education**

- Sep 2012 PhD degree in Electrical Engineering. Electrical & Computer Engineering Department, Dalhousie University, Halifax-Nova Scotia, Canada.
- May 2011 Certificate in University Teaching and Learning, Dalhousie University, Halifax-Nova Scotia, Canada.
- March 2003 Master of Applied Science in Electrical Engineering, Electrical & Computer Engineering Department, Concordia University, Montreal-Québec, Canada.
- March 1991 BSc. Bachelor of Applied Science in Electrical Engineering, Tripoli University, Electrical & Electronics Engineering Department, Tripoli-Libya.

Employment

- Jan 2023- Now Professor, Electrical & Computer Engineering Department, Faculty of Engineering- Al-Asmarya University, Zliten-Libya.
- April 2021- Now Dean, Faculty of Engineering- Al-Asmarya University, Zliten-Libya.
- Jan 2019- Now Associate Prof, Electrical & Computer Engineering Department, Faculty of Engineering- Al-Asmarya University, Zliten-Libya.
- Aug 2014-Apr 2018 Dean, Faculty of Engineering- Al-Asmarya University, Zliten-Libya.
- Jan 2015-Jan 2019 Assistant Prof, Electrical & Computer Engineering Department, Faculty of Engineering- Al-Asmarya University, Zliten-Libya.
- June 2014-Jan 2015 Lecturer, Electrical & Computer Engineering Department, Faculty of Engineering- Al-Asmarya University, Zliten-Libya.
- Jan 2013-June 2014 Lecturer, Electrical & Computer Engineering Department, Faculty of Engineering- Almergib University, AlKhoms-Libya.
- May 2011-Sep 2012 Lecture, Electrical & Computer Engineering Department, Dalhousie University, Halifax-Nova Scotia, Canada.
- Sep2007- Mar 2012 Teaching and Research Assistant (PhD Program), Dalhousie University-Electrical & Computer Engineering Department, Halifax-Nova Scotia, Canada.
- Sep 2003- Sep 2007 Lecturer, Electrical & Computer Engineering Department, Faculty of Engineering- Almergib University. AlKhoms-Libya.

Sep 2000-Mar 2003	Teaching and Research Assistant (Postgraduate Student), Concordia University, Electrical & Computer Engineering Department, Montreal-Canada. (Master's program sponsored by Waha Oil Company of Libya)
Sep 1996-Sep 2000	Teaching and Research Assistant, Electrical & Computer Engineering Department, Faculty of Engineering- Almergib University, AlKhoms-Libya.
Jan 1995-Sep 2000	Engineering Specialist, Electrical Section, Engineering Department, Waha Oil Company, Tripoli-Libya.

Training and Courses

- The Certificate of Accomplishment of “Auditors in Quality Assurance and Accreditation” Training Course
- The Certificate of "Planning and Control of Industrial Management" Program
- The Certificate of “Engineering Systems Reliability Techniques and Applications”
- The Certificate of Completion of “The Mechanical and Electrical Equipment in Hazardous Zones” Training Program
- Certificate in University Teaching and Learning
- The Certificate of Achievement of the “Microsoft and Windows Operating Systems” Workshop
- The Completion Certificate of the “Development of the Presentation and Public Speaking skills” Course
- The Certificate of the “Financial Literacy in Canada” Program
- Erasmus+Wheel Training course: Systemic Governance
- Erasmus+Wheel Training course: ICTs & Infrastructure
- Others

Summary of Skills

- Excellent command of English language (speaking, reading and writing)
- Expert knowledge of Microsoft Office.
- Fluency in coding languages
- Systems administration
- Spreadsheets
- Email management

- Familiarity with various programming languages, including C, C++, MATLAB, and FORTRAN
- Sound knowledge of user interface design principles, software architecture, design patterns as well as Simulink concepts
- Ability to design, code, test, debug, modify, document and maintain programs, and deliver quality product within deadline
- Good understanding of Project Management tools and software
- Team leadership experience; ability to teach and mentor, flexibility, risk-taking, team building and time management
- Effective interpersonal communication; written communication, active listening, constructive criticism
- Management skills; decision-making, project planning, task delegation, team communication, team leadership
- Problem-solving skills; attention to detail, collaboration, communication, patience, research
- Time management skills; delegating tasks, focus, goal setting, organization, prioritization

Research Interests

- Electrical power system operations and planning
- Electrical power system protection
- Application of heuristic techniques in electrical power systems
- Application of artificial intelligence in electrical power systems
- Power system analysis and optimization.
- Renewable electrical energy
- Environmental aspects of power systems
- Electrical power system economics
- Teaching and learning in higher education

Editorial Review

A reviewer and referee for a number of journals, transactions and conferences, including:

- International Journal of Electrical Power and Energy Systems
- IET Generation, Transmission & Distribution

- International Journal of Engineering and Information Technology (IJEIT)
- 24th Canadian Conference on Electrical and Computer Engineering - IEEE CCECE 2011
- 25th Canadian Conference on Electrical and Computer Engineering - IEEE CCECE 2012
- 4th Conference on Engineering and Technical Sciences (CEST-2021).
- Others.

Reference

- Dr. H. Aly, Ph.D.
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Room 121, 12 University Avenue, Huggins Science Hall, Wolfville, NS B4P 2R6,
Canada.
- Dr. B. Jomaa, Ph.D.
Department of Electrical and Electronic Engineering, Tripoli University
Email: bashjomaa@gmail.com Tel: +218 91 354 2834 (Viber)
High Voltage Engineering-Building, Tripoli University, Tripoli, Libya.
- Dr. A. Albakosh, Ph.D.
Electrical and Computer Engineering Department, Almergib University
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Faculty of Engineering, Electrical Engineering Building, Alkhoms, Libya

Publications:

- Google Scholar: <https://scholar.google.com/citations?user=aWDvB14AAAAJ&hl=en>

- Books

- [1] I.A. Farhat, Economically and Environmentally Optimized Power System Operations, New York, USA: LAP LAMBERT Academic Publishing & Co. KG Saarbrucken, Germany, 2012.
- [2] I.A. Farhat, Fault Diagnosis in Electric Power Transmission Systems, Balti, Republic of Moldova: Noor publishing, 2017.

- Journal and Conference papers

- [3] I.A. Farhat and M.E. El-Hawary, "Optimization methods applied for solving the short-term hydrothermal coordination problem," *Electr. Power Syst. Res.*, vol. 79, pp. 1308-1320, 9, 2009.
- [4] I.A. Farhat and M.E. El-Hawary, "Interior point methods application in optimum operational scheduling of electric power systems," *Generation, Transmission & Distribution, IET*, vol. 3; 3, pp. 1020-1029, 2009.
- [5] I.A. Farhat and M.E. El-Hawary, "Short-term hydro-thermal scheduling using an improved bacterial foraging algorithm," in *Electrical Power & Energy Conference (EPEC), 2009 IEEE*, pp. 1-5, 2009.

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- [6] I.A. Farhat and M.E. El-Hawary, "Modified bacterial foraging algorithm for optimum economic dispatch," in Electrical Power & Energy Conference (EPEC), 2009 IEEE, pp. 1-6, 2009.
- [7] I.A. Farhat and M.E. El-Hawary, "Dynamic adaptive bacterial foraging algorithm for optimum economic dispatch with valve-point effects and wind power," Generation, Transmission & Distribution, IET, vol.4, pp. 989-999, 2010.
- [8] I.A. Farhat and M.E. El-Hawary, "Fixed-head hydro-thermal scheduling using a modified bacterial foraging algorithm," Electrical Power & Energy Conference (EPEC), 2010 IEEE.
- [9] I.A. Farhat and M.E. El-Hawary, "Scheduling of Variable-Head Hydro-Thermal Generation Using an Enhanced Bacterial Foraging Algorithm," 24th Canadian Conference on Electrical and Computer Engineering, 2011. CCECE 2011.
- [10] I.A. Farhat and M.E. El-Hawary, "Short-Term Coordination of Hydro-Thermal Systems with Cascaded Reservoirs Using Bacterial Foraging Algorithm," 24th Canadian Conference on Electrical and Computer Engineering, 2011. CCECE 2011.
- [11] I.A. Farhat and M.E. El-Hawary, "Short-term hydro-thermal scheduling with environmental considerations using bacterial foraging algorithm," 24th Canadian Conference on Electrical and Computer Engineering, 2011. CCECE 2011.
- [12] I.A. Farhat and M.E. El-Hawary, "Bacterial Foraging Algorithm for Optimum Economic-emission Dispatch," Electrical Power & Energy Conference (EPEC), 2011 IEEE.
- [13] I.A. Farhat and M.E. El-Hawary, "Multi-Objective Short-Term Hydro-Thermal Scheduling Using Bacterial Foraging Algorithm," Electrical Power & Energy Conference (EPEC), 2011 IEEE.
- [14] I.A. Farhat and M.E. El-Hawary, "Short-Term Hydro-Thermal Generation Scheduling using a Modified Bacterial Foraging Algorithm," submitted to IEEE Transactions on Power Systems.
- [15] I.A. Farhat, "Ant Colony Optimization for Optimal Distributed Generation in Distribution Systems," International Journal of Computer, Information, Systems and Control Engineering, vol: 7, pp. 461-465, no.8, 2013.
- [16] I.A. Farhat, "Optimal Dynamic Economic Load Dispatch Using Artificial Immune System," International Journal of Computer, Information, Systems and Control Engineering, vol: 8, pp. 75-81, no.1, 2013.
- [17] I.A. Farhat and M. BinHasan, "Application of Support Vector Machines in Fault Detection and Diagnosis of Power Transmission Lines," International Conference on Power Engineering and Technology, vol: 2, pp. 141-147, no.6, 2014.
- [18] I.A. Farhat and Abdullah O. Hawal, "Distribution Generation Optimal Size and Placement using an Enhanced Sequential Quadratic Programming," Al-Asmarya Journal for basic and applied sciences, vol: 1, pp. 69-83, no.1, June 2016.
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- [19] I.A. Farhat and A. O. Albakosh, "Multi-Objective Optimum Economic-Emission Dispatch Considering the Environmental Aspects," *Journal of Humanities and Applied Science (JHAS)*, Vol 28. , No. 1, June 2016.
- [20] I.A. Farhat and A. O. Albakosh, "Stability Analysis of Controlled DC Motor," *The International Journal of Engineering and Information Technology (Ijeit)*, Vol 3. , No. 1, Dec 2016.
- [21] I.A. Farhat and M. BinHasan, "Fault Diagnosis, Testing and Responses of Induction Motor Systems," *Al-Asmarya Journal for basic and applied sciences*, vol: 2, pp. 69-83, no.30, June 2017.
- [22] I.A. Farhat, "An enhanced JAYA Algorithm for Optimum Thermal-Wind Power System Economic Dispatch with Valve-Point Effects," *The International Journal of Engineering and Information Technology (Ijeit)*, Vol 6. , No. 1, Dec 2019.
- [23] I.A. Farhat, "A Dynamic Bacterial Foraging Search Algorithm for Maximum Loadability of Power Systems," *Third International conference technical Science, National Board for Technical and Vocational Education*, 28-30 November 2020.
- [24] I.A. Farhat and Abdullah O. Hawal, "Optimized Maximum Loadability of Power Systems using an Enhanced Dynamic JAYA Algorithm," *Third Conference for Engineering Sciences and Technology (CEST-2020)*, 1-3 December 2020.
- [25] I.A. Farhat and Abdullah O. Hawal, "Optimized Maximum Loadability of Power Systems using an Enhanced Dynamic JAYA Algorithm," *International Journal of Advances in Signal and Image Sciences* 6 (2), 1-7, 3 December 2020.
- [26] I.A. Farhat M. M. Sofia and A.S. Kagilik, "Investment Promotion in Renewable Energy in Libya; Vision & Methodology," *AIUE Proceedings of the 2nd Energy and Human Habitat Conference*, pp. 1-6, 26 July 2021.
- [27] I.A. Farhat, "A Modified Dynamic Bacterial Foraging Algorithm for an Enhanced Power System State Estimation," *The 4th conference on Engineering Science and Technology-CEST-2021*, pp. 461-469, 14-16 December 2021.
- [28] I.A. Farhat, "A Modified Dynamic Bacterial Foraging Algorithm for an Enhanced Power System State Estimation," *Al-Asmarya Journal for basic and applied sciences*, vol: 6, no:5, pp. 466-478, Dec 2021.
- [29] I.A. Farhat, "An Improved Power System State Estimation using a Dynamically Adapted JAYA Algorithm," *Al-Asmarya Journal for basic and applied sciences*, vol: 6, no:5, pp. 136-144, Dec 2022.