CURRICULUM VITAE

1- PERSONAL DATA:

Name	: **Sahar Mohammad Abd Elazim Ahmed El-Deeb**
Gender	: FEMALE
Date of Birth	: 1 – 2 – 1978
Place of Birth	: ZAGAZIG, SHARKIA, EGYPT
Nationality	: EGYPTIAN
Address	: Electrical Engineering Department, Faculty of Engineering, Zagazig University, Zagazig 44519, EGYPT.
Position	: Professor of Electrical Engineering, Faculty of Engineering, Zagazig University.
Current Position	**: Assistance Professor at College of Engineering and Computer Science, Jazan University.**
E-mail	: Sahareldeep@yahoo.com , sdeep@jazanu.edu.sa
Phone	: Mobile: (002) 01061528074, 055-2321407, 00966594405616
Fax	:
Marital Status	: Married with 3 Children.
Major	: Electrical Engineering.
Fine	: Electrical Power and Machine Engineering.

2- EDUCATION AND OCCUPATION:

Ph.D.	: December 2009, in Electrical Engineering, Zagazig University, Egypt.
Ph.D. Title	: Improvement of Voltage Control Using Mitigation Devices.
M.Sc.	: April 2006, in Electrical Engineering, Zagazig University, Egypt.
M.Sc. Title	: Comparison Between SVC And TCSC Compensators On Power System Performance
B.Sc.	: May 2000 in Electrical Engineering, with grade Distinction "very good with honor ", Zagazig University, Egypt.
2000 – 2006	: Demonstrator in the Faculty of Engineering, Zagazig university.
2006 – 2009	: Lecturer Assistant in the Faculty of Engineering, Zagazig University
2009 - 2015	: Lecturer in Electrical Engineering Department, Faculty of Engineering, Zagazig University.
2011 – present	Assistant professor in Electrical Engineering Department, Faculty of computer science and information systems, Jazan University, KSA.
2015- 2020	: Associate professor in Electrical Engineering Department, Faculty of Engineering, Zagazig University, Egypt.
2020-present	: Professor in Electrical Engineering Department, Faculty of Engineering, Zagazig University, Egypt.

3- TEACHING EXPERIENCE:

Courses	: Electric Circuits (I) for first year Electrical Eng Students.

: Electric Circuits (II) for second year Electrical Eng Students.
: Magnetic Circuits for second year Electrical Eng Students.
: Electrical Measurement for second year Electrical Eng Students.
: Electrical Measurement for third year Electrical Eng Students.
: Electric Circuit & Machines for second year Civil Eng Students.
: Electrical Engineering for second year Industrial Eng Students.
: Electrical Engineering for second year Mechanical Eng Students.
: Modern Control for Undergraduate B. Sc. Students.
: System dynamic and control for Undergraduate B. Sc. Students.
: Digital Control for Undergraduate B. Sc. Students.
: Artificial Neural Network (ANN) for Undergraduate B. Sc. Students.
: Computer Applications in Elect. Engineering for Undergraduate B. Sc. Students.
: Introduction to MATLAB and simulation for Undergraduate B. Sc. Students.
: Introduction to Simulink with Engineering Applications for Undergraduate B. Sc. Students.
: Circuit Analysis II with MATLAB Applications for Undergraduate B. Sc. Students.
: Introduction to C language for Undergraduate B. Sc. Students.
: Logic circuit.
: Advanced Calculus.
: Algebra and complex numbers.
: Introduction to probability and statistics.
: Fundamental Numerical Methods and Data Analysis.
: Mathematics for second year Electrical Eng Students.
: High voltage for third year Electrical Eng Students.
: Economics of power system for third year Electrical Eng Students.
: Utilizations of power system for third year Electrical Eng Students.
: Power System Planning for Undergraduate B. Sc. Students.
: Power System Analysis for Undergraduate B. Sc. Students.
: Application of MATLAB to power system

Courses outside Zagazig university

: Power System Dynamic for Engineering Department in Higher Technological Institute, Banha University.
: Automatic Control for Biomedical Engineering Department in Higher Technological Institute, Tenth of Ramadan City.
: System Engineering for Biomedical Engineering Department in Higher Technological Institute, Tenth of Ramadan City.
: System dynamic for Biomedical Engineering Department in Higher Technological Institute, Tenth of Ramadan City.
: Electrical Measurement for second year Medical Equipment Tech. Students in Zagazig Health Technology Institute.

Courses in Jazan university (KSA)

Programing 1 (C++).
Programing 2 (C++)
Introduction to computer.
Java

Python
Computer architecture
Project.
Digital logic.
Numerical design.
Multimedia.
Computer data security and privacy.

4- RESEARCH INTERESTS:

: Application of new optimization techniques on electrical systems
: Application of Artificial intelligence techniques on electrical systems
: Power System Stability and Control
: Design of Flexible AC transmission systems (FACTS) Via Artificial intelligence
: Power Quality and Voltage Stability.
: Load models.
: Design of power system stabilizer (PSS)
: Renewable energy
: Distribution Systems.
: Maximum power point tracking.
: Load Frequency Control.
Unit commitment.

5- THESIS SUPERVISION:

M. Sc. : None.
Ph. D. : None.

6- LANGUAGES:

: Arabic.
: English, Fluent spoken and written.

7- SOCIETY MEMBERSHIP:

Member of : Egyptian Syndicate for Engineers, 2000 – Present.

8- TRAINING WORKSHOPS:

: Faculty and Leadership Development Project (FLDP)- ten programs
ICDL

9- PUBLICATIONS:

Publication from Master

1- M. E. Mandour, Z.S.EL-Razaz, and **S.M. Abdelazeem**, "Evaluation Study on Series and Shunt Compensators for Power System Oscillation Damping" **Cigre** 2005, November 21-23, 2005, Cairo, Egypt.

Publication from Ph. D

2- M. E. Mandour, and **S. M. Abd-Elazeem**, "Robust Design of STATCOM Controller for Improving Power System Damping Performance Via GA",

Al_AZHAR Engineering Tenth International Conference, Vol. 3, No. 12, December, 2008, pp.159-169.

3- M. E. Mandour, and **S. M. Abd-Elazeem**, "Robust Design of STATCOM Controller for Improving Power System Damping Performance Via GA", Ain Shams Journal of Electrical Engineering, Vol. 43, No. 2 December, 2008, pp. 237-248.

4- M. E. Mandour, and **S. M. Abd-Elazeem**, "Hopf Bifurcation Control in a Power System with Static Synchronous Compensator", **Ain Shams Journal of Electrical Engineering,** Vol. 44, No. 1, June, 2009, pp. 245-255.

5- M. E. Mandour, and **S. M. Abd-Elazeem**, "Hopf Bifurcation Improvement by STATCOM Controller Employing Genetic Algorithm Approach", 44th International Universities Power Engineering Conference **UPEC**, 1-4 September 2009 ,University of Strathclyde, Glasgow, Scotland.

6- M. E. Mandour, and **S. M. Abd-Elazeem**, "Hopf Bifurcation Improvement by STATCOM Controller Employing Genetic Algorithm Approach", 13th IEEE International Middle East Power Systems Conference (**MEPCON 2009**), December 20-23, 2009, Assiut University, Assiut, Egypt. pp. 583-587.

Post Doctor

7. E. S. Ali, and **S. M. Abd-Elazim**, "Unified Power Flow Controller Design for Power System Stability Enhancement via Bacteria Foraging Optimization Algorithm", Journal of Electrical Engineering: Volume 10/ 2010 - Edition: 2 Journals of Electrical Engineering (**JEE**), pp 190-196.

8. E. S. Ali, and **S. M. Abd-Elazim** "Optimal PID Tuning For Load Frequency Control Using Bacteria Foraging Optimization Algorithm", IEEE 14th International Middle East Power Systems Conference (**MEPCON 2010**), December 19-21, 2010, Cairo University, Giza, Egypt. pp. 410-415.

9. E. S. Ali, and **S. M. Abd-Elazim**, "Bacteria Foraging Optimization Algorithm Based Load Frequency Controller for Interconnected Power System", International Journal of Electrical Power and Energy Systems (**IJEPES Elsevier**), Vol. 33, No. 3, **March 2011**, pp. 633-638.

10. E. S. Ali, and **S. M. Abd-Elazim**, "SVC Damping Controller Design Based on Bacteria Foraging Optimization Algorithm for a Multimachine Power System", International Journal of for Electrical and Power Engineering (**Medwell Journals**), Vol. 5, No. 2, 2011, pp. 116-124.

11. E. S. Ali, **S. M. Abd-Elazim**, "Coordinated Design of PSSs and TCSC via Bacterial Swarm Optimization Algorithm in a Multimachine Power System", International Journal of Electrical Power and Energy Systems **(IJEPES Elsevier),** Vol. 36, No. 1, March 2012, pp. 84-92.

12. E. S. Ali**, S. M. Abd-Elazim**, "TCSC Damping Controller Design Based on Bacteria Foraging Optimization Algorithm for a Multimachine Power System", International Journal of Electrical Power and Energy Systems **(IJEPES Elsevier),** Vol. 37, No. 1, May 2012, pp. 23-30.

13. E. S. Ali, **S. M. Abd-Elazim**, "Coordinated Design of PSSs and SVC via Bacteria Foraging Optimization Algorithm in a Multimachine Power System", International Journal of Electrical Power and Energy Systems (**IJEPES Elsevier**), Vol. 41, No. 1, **October 2012**, pp. 44-53.

14. **S. M. Abd-Elazim**, and E. S. Ali, "Bacteria Foraging Optimization Algorithm Based SVC Damping Controller Design for Power System Stability Enhancement", International Journal of Electrical Power and Energy Systems **(IJEPES Elsevier)**, Vol. 43, No. 1, **December 2012**, pp. 933-940.

15. **S. M. Abd-Elazim**, and E. S. Ali, "A Hybrid Particle Swarm Optimization and Bacterial Foraging for Power System Stability Enhancement", IEEE, 15th International Middle East Power Systems Conference **"MEPCON'12",** Alexandria University, Egypt, **December 23-25, 2012**.

16. **S. M. Abd-Elazim**, and E. S. Ali, "Synergy of Particle Swarm Optimization and Bacterial Foraging For Power System Stabilizers Design", IEEE, 15th International Middle East Power Systems Conference **"MEPCON'12",** Alexandria University, Egypt, **December 23-25, 2012**.

17. **S. M. Abd-Elazim**, and E. S. Ali, "Bacteria Foraging: A New Technique for Optimal Design of FACTS Controller to Enhance Power System Stability", Int. Journal **WSEAS** Transactions on Systems, Vol. 12, No. 1, **January 2013**, pp. 42-52.

18. E. S. Ali**,** and **S. M. Abd-Elazim**, "Synergy of Particle Swarm Optimization and Bacterial Foraging for SSSC Damping Controller Design", Int. Journal Advances in Energy Engineering (**AEE**), Vol. 1 No. 1, January 2013, pp. 1-11.

19. E. S. Ali**,** and **S. M. Abd-Elazim**, "Statistical Assessment of New Coordinated Design of PSSs and SVC via Hybrid Algorithm", Int. Journal of Engineering and Advanced Technology **(IJEAT),** Vol. 2, No. 3, **February 2013,** pp. 647-654.

20. **S. M. Abd-Elazim**, and E. S. Ali, "A Hybrid Particle Swarm Optimization and Bacterial Foraging for Optimal Power System Stabilizers Design", Int. Journal of Electrical Power and Energy Systems **(IJEPES Elsevier)**, Vol. 46, No. 1, **March 2013**, pp. 334-341.

21. E. S. Ali**,** and **S. M. Abd-Elazim**, "Power System Stability Enhancement via Bacteria Foraging Optimization Algorithm", Int. Arabian Journal for Science and Engineering (**AJSE**), (**Publisher Springer)**, Vol. 38, No. 3, **March 2013**, pp. 599-611.

22. **S. M. Abd-Elazim**, and E. S. Ali, "Optimal Power System Stabilizers Design for Multimachine Power System Using Hybrid BFOA-PSO Approach**", Int. J. of WSEAS Transactions on Power Systems, Vol. 8, No. 2, April 2013, pp. 85-94.**

23. **S. M. Abd-Elazim**, and E. S. Ali, "Synergy of Particle Swarm Optimization and Bacterial Foraging for TCSC Damping Controller Design", **Int. J. of WSEAS Transactions on Power Systems, Vol. 8, No. 2, April 2013, pp. 74-84.**

24. E. S. Ali**,** and **S. M. Abd-Elazim**, "Optimal SSSC Design for Damping Power System Oscillations via Hybrid BFOA-PSO Approach", Journal of Engineering Sciences, **Assiut University**, Vol. 41, No. 3, **May 2013**, pp. 1127-1150.

25. **S. M. Abd-Elazim** and E. S. Ali, "Bacteria Foraging: A New Technique for Optimal Design of FACTS Controller to Enhance Power System Stability", **Int. Journal of Electric Engineering (JEE)**, Vol. 13, No. 2, **June 2013**, pp. 220-227.

26. **S. M. Abd-Elazim** and E. S. Ali, "Hybrid BFOA-PSO Approach for Robust Design of TCSC Based Controller", **Int. Journal of Electric Engineering (JEE)**, Vol. 13, No. 2, **June 2013**, pp. 251-258.

27. E. S. Ali and **S. M. Abd-Elazim**, **"**Hybrid BFOA–PSO Approach for Damping Power System Oscillations by Using Facts Devices"**, Journal of Engineering and Applied Sciences** (**Medwell Journals**), Vol. 8, Issue 3, 2013, pp. 89-96.

28. E. S. Ali and **S. M. Abd-Elazim**, "Hybrid BFOA-PSO Approach for SSSC Damping Controller Design", **Int. Conference on Control, Decision and Information Technologies (CoDIT),** 6-8 May 2013, Hammamet, Tunisia, pp. 464- 469.

29. E. S. Ali and **S. M. Abd-Elazim**, "Optimal Power System Stabilizers Design for Multimachine Power System via Hybrid Approach", **Int. Journal of Electric Engineering (JEE)**, Vol. 13, No. 3, **September 2013**, pp. 83-90.

30. E. S. Ali and **S. M. Abd-Elazim**, "Hybrid BFOA-PSO Approach for SSSC Damping Controller Design"**, Int. Journal of Electric Engineering (JEE)**, Vol. 13, No. 3, **September 2013**, pp. 257-262.

31. E. S. Ali**, S. M. Abd-Elazim**, "BFOA based Design of PID Controller for Two Area Load Frequency Control with Nonlinearities", Int. J. of Electrical Power and Energy Systems (**IJEPES Elsevier**), Vol. 51, **October 2013**, pp. 224-231.

32. E. S. Ali**, S. M. Abd-Elazim**, "Optimal PSS Design in a Multimachine Power System via Bacteria Foraging Optimization Algorithm", **Int. J. of WSEAS Transactions on Power Systems,** Vol. 8, No. 4, **October 2013**, pp. 186-196.

33. E. S. Ali, **S. M. Abd-Elazim**, "Hybrid BFOA-PSO Approach for Optimal Design of SSSC Based Controller", **Int. J. of WSEAS Transactions on Power Systems,** Vol. 9, No. 1, **January 2014**, pp. 54-66.

34. E. S. Ali and **S. M. Abd-Elazim**, "Optimal SSSC Design for Power Systems via Hybrid Approach", **Int. J. of Electric Engineering (JEE)**, Vol. 14, No. 1, **March 2014**, pp. 138-147.

35. E. S. Ali and **S. M. Abd-Elazim**, "Stability Enhancement of Multimachine Power System via New Coordinated Design of PSSs and SVC", **Int. Journal of WSEAS Transactions on Systems,** Vol. 13, **2014**, pp. 345- 356.

36. A. S. Oshaba, E. S. Ali, and **S. M. Abd-Elazim**, "Speed Control of Switched Reluctance Motor Fed by PV System Using Ant Colony Optimization Algorithm", **Int. J. of WSEAS Transactions on Power Systems,** Vol. 9, **2014**, pp. 376- 387.

37. E. S. Ali, and **S. M. Abd-Elazim**, "Power System Stability Enhancement via New Coordinated Design of PSSs and SVC", **Int. J. of WSEAS Transactions on Power Systems,** Vol. 9, **2014**, pp. 428- 438.

38. A. S. Oshaba, E. S. Ali, and **S. M. Abd-Elazim**, "MPPT Control Design of PV Generator Powered DC Motor-Pump System based on Artificial Bee Colony Algorithm", **J. of Electrical Engineering (JEE),** Vol. 14, No. 4, **December** 2014, pp. 315-324.

39. **S. M. Abd-Elazim**, and E. S. Ali, "New Coordinated Design of PSSs and SVC to Improve Power System Stability via BSO", **Int. J. of Electric Engineering (JEE),** Vol. 15, No. 1, **March 2015**, pp. 21-30.

40. A. S. Oshaba, E. S. Ali, and **S. M. Abd-Elazim**, "Speed Control of SRM Fed by Photovoltaic System Using Ant Colony Optimization Algorithm", **Int. J. of Electric Engineering (JEE),** Vol. 15, No. 1, **March 2015**, pp. 46-54.

41. A. S. Oshaba**,** E. S. Ali, and **S. M. Abd-Elazim**, "BAT Algorithm: A Novel Approach for MPPT Control Design of PV Generator Supplied SRM", **Int. J. of Electric Engineering (JEE),** Vol. 15, No. 1, **March 2015**, pp. 293-302.

42. A. S. Oshaba, E. S. Ali and **S. M. Abd-Elazim**, "Artificial Bee Colony Algorithm Based Maximum Power Point Tracking in Photovoltaic System", **Int. J. of WSEAS Transactions on Power Systems,** Vol. 10, **2015**, pp. 123- 134.

43. A. Oshaba, E. S. Ali and **S. M. Abd-Elazim**, "ACO Based Speed Control of SRM Fed by Photovoltaic System", **Int. J. of Electrical Power and Energy Systems (IJEPES Elsevier)**, Vol. 67, **May 2015**, pp. 529-536.

44. A. S. Oshaba, E. S. Ali and **S. M. Abd-Elazim**, "MPPT Control Design of PV System Supplied SRM Using BAT Search Algorithm"**, Sustainable Energy, Grids** and Networks, **(SEGAN Elsevier)**, Vol. 2C, **2015**, pp. 51-60.

45. A. S. Oshaba, E. S. Ali and **S. M. Abd-Elazim**, "MPPT Control Design of PV System Supplied SRM Using BAT Search Algorithm", **J. of Electric Engineering (JEE),** Vol. 15, No. 2, **2015**, pp. 275-284.

46. A. S. Oshaba, E. S. Ali, and **S. M. Abd-Elazim, "**Ant Colony Optimization Algorithm for Speed Control of SRM Fed by Photovoltaic System", J. of Electric Engineering (**JEE**), **Vol. 15, No. 3, 2015, pp. 55-63.**

Post Assistant professor

47. **S. M. Abd-Elazim** and E. S. Ali, "A Hybrid Particle Swarm Optimization and Bacterial Foraging for Power System Stability Enhancement", **Int. J. of Complexity,** Vol. 21, No. 2, November/December **2015**, pp. 245- 255.

48. E. S. Ali, and **S. M. Abd-Elazim**, "Stability Improvement of Multimachine Power System via New Coordinated Design of PSSs and SVC", **Int. J. of Complexity,** Vol. 21, **No. 2,** November/December **2015**, pp. 256- 266.

49. **S. M. Abd-Elazim**, and E. S. Ali, "Optimal Power System Stabilizers Design via Cuckoo Search Algorithm", **Int. J. of Electrical Power and Energy Systems (IJEPES Elsevier)**, Vol. 75 C, **February 2016**, pp. 99-107.

50. **S. M. Abd-Elazim**, and E. S. Ali, "Imperialist Competitive Algorithm for Optimal STATCOM Design in a Multimachine Power System", **Int. J. of Electrical Power and Energy Systems (IJEPES Elsevier)**, Vol. 76 C, **March 2016**, pp. 136-146.

51. **S. M. Abd-Elazim**, and E. S. Ali, "Load Frequency Controller Design via BAT Algorithm for Nonlinear Interconnected Power System", **Int. J. of Electrical Power and Energy Systems (IJEPES Elsevier)**, Vol. 77C, **May 2016**, pp. 166-177.

52. A. Y. Abd-Elaziz, E. S. Ali, and **S. M. Abd-Elazim**, "Flower Pollination Algorithm and Loss Sensitivity Factors for Optimal Sizing and Placement of Capacitors in Radial Distribution Systems", **Int. J. of Electrical Power and Energy Systems (IJEPES Elsevier)**, Vol. 78 C, **June 2016**, pp. 207-214.

53. E. S. Ali, and **S. M. Abd-Elazim** and A. Y. Abd-Elaziz, "Improved Harmony Algorithm for Optimal Locations and Sizing of Capacitors in Radial Distribution Systems", **Int. J. of Electrical Power and Energy Systems (IJEPES Elsevier)**, Vol. 79 C, **July 2016**, pp. 275-284.

54. A. Y. Abd-Elaziz, E. S. Ali, and **S. M. Abd-Elazim**, "Optimal Sizing and Locations of Capacitors in Radial Distribution Systems via Flower Pollination Optimization Algorithm and Power Loss Index", Engineering Science and Technology: an International Journal (**JESTCH**),Vol. 19, Issue 1, March 2016, pp. 610-618.

55. A. Y. Abd-Elaziz, E. S. Ali, and **S. M. Abd-Elazim**, "Flower Pollination Algorithm to Solve Combined Economic and Emission Dispatch Problems", Engineering Science and Technology: an International Journal (**JESTCH**), Vol. 19, Issue 2, June 2016, pp. 980-990.

56. **S. M. Abd-Elazim** and E. S. Ali, "Optimal Location of STATCOM in Multimachine Power System for Increasing Loadability by Cuckoo Search Algorithm", **Int. J. of Electrical Power and Energy Systems**, **(IJEPES Elsevier)**, Vol. 80 C, **September 2016**, pp. 240-251.

57. E. S. Ali, **S. M. Abd-Elazim** and A. Y. Abd-Elaziz, "Improved Harmony Algorithm and Power Loss Index for Optimal Locations and Sizing of Capacitors in Radial Distribution Systems", **Int. J. of Electrical Power and Energy Systems (IJEPES Elsevier)**, Vol. 80 C, **September 2016**, pp. 252-263.

58. A. Y. Abd-Elaziz, E. S. Ali, and **S. M. Abd-Elazim** "Combined Economic and Emission Dispatch Solution Using Flower Pollination Algorithm", **Int. J. of Electrical Power and Energy Systems (IJEPES Elsevier)**, Vol. 80 C, **September2016**, pp. 264-274.

59. A. Y. Abd-Elaziz, E. S. Ali, and **S. M. Abd-Elazim**, "Implementation of Flower Pollination Algorithm for Solving Economic Load Dispatch and Combined Economic Emission Dispatch Problems in Power Systems", **Energy (Elsevier),** Vol. 101C, **April 2016**, pp. 506-518.

60. A. Y. Abd-Elaziz, E. S. Ali, and **S. M. Abd-Elazim**, "Flower Pollination Algorithm for Optimal Capacitor Placement and Sizing in Distribution Systems", **Electric Power Components and System**, Vol. 44, Issue 5, **2016**, pp. 544-555.

61. **S. M. Abd-Elazim**, and E. S. Ali, "Optimal SSSC Design for Damping Power Systems Oscillations via Gravitational Search Algorithm", **Int. J. of Electrical Power and Energy Systems (IJEPES Elsevier)**, Vol. 82 C, **November 2016**, pp. 161-168.

62. A. S. Oshaba, E. S. Ali, and **S. M. Abd-Elazim**, "PI Controller Design Using Artificial Bee Colony Algorithm for MPPT of Photovoltaic System Supplied DC Motor-Pump Load", **Int. J. of Complexity,** Vol. 21, **2016**, pp. 99- 111.

63. A. S. Oshaba, E. S. Ali, and **S. M. Abd-Elazim**, "MPPT Control Design of PV Generator Supplied DC Motor-Pump System based on ABC Algorithm", **Int. J. of WSEAS Transactions on Power Systems,** Vol. 11, **2016**, pp. 190-198**.**

64. E. S. Ali, **S. M. Abd-Elazim** and A. Y. Abd-Elaziz, "Ant Lion Optimization Algorithm for renewable Distributed Generations", **Energy (Elsevier),** Vol. 116, December **2016**, pp. 445-458.

65. E. S. Ali, **S. M. Abd-Elazim** and A. Y. Abd-Elaziz, "Ant Lion Optimization Algorithm for optimal location and sizing of renewable distributed generations", **Renewable Energy (Elsevier),** Vol. 101C, February **2017**, pp. 1311-1324.

66. A. S. Oshaba, E. S. Ali, and **S. M. Abd-Elazim**, "Speed Control of SRM Supplied by Photovoltaic System via Ant Colony Optimization Algorithm", **Neural Computing and Applications**, Vol. 28, No. 2, **February 2017**, pp. 365-374.

67. A. S. Oshaba, **E. S. Ali, and** S. M. Abd-Elazim, "PI Controller Design Using ABC Algorithm for MPPT of Photovoltaic System Supplied DC Motor-Pump Load", **Neural Computing and Applications**, Vol. 28, No. 2, **February 2017**, pp. 353-364.

68. A. S. Oshaba, E. S. Ali, and **S. M. Abd-Elazim**, "PI Controller Design for MPPT of Photovoltaic System Supplied SRM via BAT Search Algorithm", **Neural Computing and Applications**, Vol. 28, No. 4, **April 2017**, pp. 651-667.

69. A. S. Oshaba, **E. S. Ali, and** S. M. Abd-Elazim, "PI controller design via ABC algorithm for MPPT of PV system supplying DC motor–pump load", **Electrical Engineering, Springer**, Vol. 99, No. 2, **2017**, pp. 505-518.

70. E. S. Ali, and **S. M. Abd-Elazim**, "Optimal locations and sizing of capacitors in radial distribution systems using mine blast algorithm", **Electrical Engineering**, Springer, Vol. 100, Issue 1, **2018**, pp. 1–9.

71. E. S. Ali, **S. M. Abd-Elazim** and A. Y. Abd-Elaziz, "Optimal allocation and sizing of renewable distributed generation using ant lion optimization algorithm", **Electrical Engineering**, Springer, Vol. 100, Issue 1, **2018**, pp. 99–109.

72. **S. M. Abd-Elazim** and E. S. Ali, "Firefly algorithm-based load frequency controller design of a two area system composing of PV grid and thermal generator", **Electrical Engineering**, Springer, Vol. 100, **Issue 2, 2018**, pp. 1253–1262.

73. E. S. Ali, and **S. M. Abd-Elazim**, "Mine blast algorithm for environmental economic load dispatch with valve loading effect", **Neural Computing and Applications**, Vol. 30, No. 1, July **2018**, pp. 261-270.

74. E. S. Ali, and **S. M. Abd-Elazim**, "Load frequency controller design of a two-area system composing of PV grid and thermal generator via firefly algorithm", **Neural Computing and Applications**, Vol. 30, No. 2, July **2018**, pp. 607-616.

75. E. S. Ali, and **S. M. Abd-Elazim**, "Power System Stabilizers Design Using Grasshopper Optimization Algorithm", Int. J. of Power Systems, Vol. 4, 2019, pp. 31-38.

76. S. M. Abd-Elazim, and E. S. Ali, "Improved Whale Optimization Algorithm for Optimal Network Reconfiguration", Int. J. of Communications, Volume 4, 2019, pp. 6-15.

77. E. S. Ali, and **S. M. Abd-Elazim**, "Grasshopper Optimization Approach for Power System Stabilizers pattern", Yanbu Journal of Engineering and Science, Vol. 17, December 2019, pp.27-35.

78. **S. M. Abd-Elazim**, and E. S. Ali, "Optimal Network Reconfiguration via. Improved Whale Optimization Algorithm", Journal of Engineering and Applied Science, vol.15, issue 18, pp. 3258-3266, **2020**.

79. **S. M. Abd-Elazim**, and **E. S. Ali**, "Optimal network restructure via improved whale optimization approach "International Journal of Communication Systems 34 (1), e4617, January **2021**.

80. E. S. Ali, and **S. M. Abd-Elazim**, "Hybrid Algorithm for Coordinated Design of PSSs and SVC", WSEAS Transactions on Electronics, Vol. 13, **2022**, pp. 34-44.

81. E. S. Ali, **S. M. Abd-Elazim**, and A.S. Balobaid "Implementation of coyote optimization algorithm for solving unit commitment problem in power systems", Energy, https://doi.org/10.1016/j.energy.2022.125697, vol.263, pp. 1-11, January 2023.

82. E. S. Ali, S. **M. Abd Elazim**,"Optimal Sizing and Locations of Capacitors Using Slime Mould Algorithm" ,WSEAS Transactions on Power Systems, Print ISSN: 1790-5060 , E-ISSN: 2224-350X, Vol. 17, 2022, Art. #38, p.382-390, DOI: 10.37394/232016.2022.17.38

83. E. S. Ali, **S. M. Abd Elazim**," Optimal Sizing and Locations of Capacitors in a Radial Distribution System", Journal of Artificial Intelligence Systems and Applications, 2022, Vol. 1: pp.1-12.

84. E. S. Ali, **S. M. Abd Elazim**," Optimal Locations of Capacitors in a Radial Distribution System via Slime Mould Algorithm", Jazan journal, 2022. (35/AS/jju/2022). (accepted letter)

85. Ehab S. Ali, Sahar. **M. Abd Elazim**, Sultan H. Hakmi and Mohamed I. Mosaad, "Optimal Allocation and Size of Renewable Energy Sources as Distributed Generations Using Shark Optimization Algorithm in Radial Distribution Systems", Energies 2023, 16, 3983. https://doi.org/10.3390/ en16103983

86. E. S. Ali, and S. M. Abd Elazim, "Power System Stability Enhancement Using Grasshopper Optimization Approach and PSSs", WSEAS Transactions on Power Systems, Vol. 18, 2023, pp. 135-140.

87. E. S. Ali, and S. M. Abd Elazim, "Optimal Network Reconfiguration via Improved Whale Optimization Approach", WSEAS Transactions on Power Systems, Vol. 18, 2023, pp. 141-151.

88. E. S. Ali, and S. M. Abd Elazim, "Optimal STATCOM Design via Flower Pollination Approach for A Multimachine Power System", WSEAS Transactions on Power Systems, Volume 18, November 2023, pp.282-292, DOI: 10.37394/232016.2023.18.29.

89. E. S. Ali, and S. M. Abd Elazim, "Cuckoo Search Approach for Optimal SVC Design in A Multimachine Power System", WSEAS Transactions on Systems and Control, Volume 18, November 2023, pp. 416-423. DOI: 10.37394/23203.2023.18.44

90. S. M. Abd Elazim, "PSSs Layout using Dandelion Optimization Approach", WSEAS Transactions on Electronics, Vol. 15, 2024, pp. 157-165, DOI: 10.37394/232017.2024.15.18

91. S. M. Abd Elazim, "Tunicate Swarm Algorithm-Based Load Frequency Controller for Renewable Energy Resources Combined Heat Power Network", WSEAS Transactions on Electronics, Vol. 16, 2025, pp. 1-10, DOI: 10.37394/232017.2025.16.1

92. S. M. Abd Elazim, **Ehab S. Ali** and Emad S. Hassan "Addressing Economic Load Dispatch Problems in Various Power Systems with the Wild Horse Optimizer", Jazan journal, accepted, 2024

93.

10. Working as Reviewer

Reviewer for Electric Power Components and System Journal, UK.
Reviewer for Journal of Electrical Engineering (JEE), Romania.
Reviewer for World Journal of Modeling and Simulation.
Reviewer for International Journal of Electrical Power and Energy (Elsevier).
Reviewer for International Journal of European Transactions on Electrical Power (ETEP).
Reviewer for International Journal of WSEAS Transactions on Power Systems.
Reviewer for International Journal of Engineering Intelligent Systems (EIS).
Reviewer for IEEE 15th International Middle East Power Systems Conference.
Reviewer for "MEPCON'12", Alexandria University, Egypt.
Reviewer for IET Generation, Transmission & Distribution journal.
Reviewer for Ain Shams Engineering Journal (AJSE).
Reviewer for Alexandria Engineering Journal (AEJ).
Reviewer for Scientia Iranica Journal.
Reviewer for Complexity (Wiley Company) Impact Factor: 1.333
Reviewer for Neural Computing and Applications (Springer)
Reviewer for Journal of Power Technologies
Reviewer for Journal of the Institution of Engineers (India)
Reviewer for International Journal of Power Electronics and Drive Systems
Reviewer for International Journal of Physical Sciences
Reviewer for International Journal of Modeling, Identification and Control (IJMIC)
Reviewer for Journal of Engineering Research Kuwait

Reviewer for Journal Advances in Electrical Engineering http://mts.hindawi.com/reviewer/2892063655555410/

Reviewer for Frontiers of Information Technology & Electronic Engineering http://www.springer.com/computer/journal/11714

Reviewer for 3rd International Conference on Control, Decision and Information Technologies, CoDIT'16

Reviewer for 2016 International Conference on New Energy and Future Energy System (NEFES 2016)

Reviewer for Genetic Programming and Evolvable Machines (springer)

Reviewer for Energy Journal (Elsevier)

Reviewer for Solar Energy (Elsevier)

Reviewer for Applied Energy (Elsevier)

Reviewer for Asian Journal of Control,

Reviewer for Egyptian Informatics Journal (Elsevier)

11. Prizes

a) International Publication Award at Zagazig University for 2011.
b) International Publication Award at Zagazig University for 2012.
c) International Publication Award at Zagazig University for 2013.
d) International Publication Award at Zagazig University for 2014.
e) International Publication Award at Zagazig University for 2015.
f) International Publication Award at Zagazig University for 2016.
g) International Publication Award at Zagazig University for 2017.
h) International Publication Award at Zagazig University for 2018.
i) International Publication Award at Zagazig University for 2019.
j) International Publication Award at Zagazig University for 2020.
k) International Publication Award at jazan University for 2016.
l) International Publication Award at jazan University for 2018.
m) International Publication Award at jazan University for 2023.
n) Including in list of the 2 % best scientist around the world according to Stanford university report published 2020.
o) Including in list of the 2 % best scientist around the world according to elsevier report published 2021.
p) Including in list of the 2 % best scientist around the world according to elsevier report published 2022.
https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/3?fbclid=IwAR2o0oLVjMTgjXjFrM_-e7bbYvLCSmBc2hgElJr-JcsIdvbdFLx33XvTjyQ
q) Including in the list of the best five in Zagazgig University at 2021.
r) Including in list of the 2 % best scientist around the world according to Stanford university report published 2023 and number 6 in Jazan University.
s) Including in list of the 2 % best scientist around the world according to Stanford university report published 2024.