

**Name:** Fathalla Fereig Salama Selim  
**Title:** Associated Professor.  
**Cell Phone:** Egypt: +201001032226  
**E-mail:** [hegaz2009@yahoo.com](mailto:hegaz2009@yahoo.com)/[Fatehsaleem@eng.kfs.edu.g](mailto:Fatehsaleem@eng.kfs.edu.g)  
**Sex:** Male  
**Nationality:** Egypt  
**Current Job :** **Associated Professor** in Electrical Engineering Dept. Faculty of Engineering, Kafrelsheikh University  
**Current Address :** Department of Electrical Engineering, Faculty of Engineering, Kafrelsheikh University, Kafrelsheikh, Egypt.  
**Research Interest:** Protection (HV, LV), Predictive Maintenance with developing computer software.



#### SHORT PERSONAL DESCRIPTION

Since 2012-2020, I am a **Teacher (Assistant Professor)**; my research interests include the development, Modeling and Identification of Various Protection Systems by Applying An Artificial Intelligence methods in modeling and analysis of power systems, renewable energy and astronomy e.g. telescope control system, finding orbital elements of stars and solar activity.

#### EVENTS AND ACHIEVEMENTS IN CHRONOLOGICAL ORDER

##### *EDUCATION*

Dec. , 2012: Doctor of Philosophy (Ph.D.) in electrical engineering, Tanta University, egypt.

**Title of thesis, “ Fault Prediction of Electric Power System Elements Using an Artificial Technique”.**

Dec., 2007: Master of Science (M.Sc.) in Electrical Engineering at Alexandria University, Egypt.

**Title of thesis “Study of Lightning Protection in HV. And E.H.V. Transmission Lines and Substations Equipments in The Egyptian Unified Network”.**

May, 1997: Bachelor of Science (B.Sc.) in Electrical Engineering, Alexandria University, Faculty of Engineering, Alexandria, Egypt.

##### *TRAINING*

- 10 training courses in training skills workshop.
- 19 training courses in Development information technology Center, kafrelshikh University.

##### *PROFESSIONAL SKILLS, AND EXPERIENCE*

- Consultant in Engineering Research and Consultant Center, " Kafrelshikh university" Egypt, and in Engineering Syndicate.
- Electrical circuits and repair devices.
- Preventive Maintenance schedules and programs.
- Programming in different computer software such as Matlab, Electrical AutoCad and other packages e.g. Microsoft Office, .etc.

##### *PROFESSIONAL EXPERIENCE*

2020: Now : Associated Professor in Electrical Engineering Deptment Faculty of Engineering, Kafrelsheikh University, Kafrelsheikh, Egypt.

2012 : 2020 (8-2020): Assistant Professor (Teacher) in Electrical Engineering Dept. Faculty of Engineering, Kafrelsheikh University, Kafrelsheikh, Egypt.

2009 :2012: Lecturer in Electrical Engineering Dept. Faculty of Engineering, Kafrelsheikh University, Kafrelsheikh, Egypt.

2004 : 2009: Electrical Design Engineer in Electrical Ministry, Egypt.

2000 : 2004: Maintenance Engineer in STARWood Company, Ssheraton ElMontazah Hotel. Alexandria, egypt.

2000 : 2000: Maintenance Engineer in ACCOR Company, Sofitel Winter Palace Hotel, Luxor, egypt.

1999 : 1999 : Electrical and Elctronic Engineer in Egypt Navigation Company, egypt.

1998 : 1999: Electrical Engineer in El Olla Petrolum Service Company, Egypt.

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### *LANGUAGES*

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- Arabic: my native language
- English: Very Good

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### *PROFESSIONAL ACTIVITIES*

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- Consultant in Research and Consultant Engineering Center, " Kafrelshikh university" Egypt.
- Consultant in Egypt Syndicate of Engineers
- Consultant for more than 20 big projects
- **Assistant Professor** in many Universties :
  - 1- Faculty of Engineering, Kafrelshiekh University,
  - 2- Arab Acadmey For Sience and Technology & Maritime Tansport' Alexandria,
  - 3- Higher Institute of Engineering and Technology, Kafrelshiekh
  - 4 - Faculty of Engineering, Tanta University.

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### *Summary of Research Activities*

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- 1- Co-supervised over 1 graduate students (M.Sc. students ) at departments of Electrical Engineering Faculty of Engineering, Tanta University, Egypt.
- 2- Academic Supervisor from 2016 in electrical department “ faculty of engineering- Kafrelsheikh University”
- 3- Supervisor for 18 Undergraduate projects.
- 4- Authors and Sub-Authors for 19 puhlised papers , and under acceotance 4 papers.

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### *TEACHING EXPERIENCE*

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- **2009-2013, Economical and Generation of Energy**, Faculty of Engineering, Kafrelshiekh University, Kafrelsheikh.
- **2009-2013, Fundamental of Protection Systems**, Faculty of Engineering, Kafrelsheikh University, Kafrelsheikh.
- **2009-2012, Application of Protection Systems**, Faculty of Engineering, Kafrelsheikh University, Kafrelsheikh.
- **2013-2016, Electrical Engineering Fundamental "EE238"** , Arab Academy for Science, Technology & Maritime Transport, AASTMT, Alexandria, Egypt.

- **2012-2017, Electrical Power in Ships "EE449T"** , Arab Academy for Science, Technology & Maritime Transport, AASTMT, Alexandria, Egypt.
- **2009-2020, Electrical Installations**, Faculty of Engineering, Kafrelsheikh University, Kafrelsheikh.
- **2013-2020, Electrical and Electronic Engineering**, Faculty of Engineering, Kafrelsheikh University, Kafrelsheikh.
- **2013-2020, Electrical Engineering**, Faculty of Engineering, Kafrelsheikh University, Kafrelsheikh.
- **2013-2020, Electrical Power Engineering** , High Engineering and Technology Institute, Kafr Elshiekh, Since and Technology Nile University, Egypt.
- **2013-2020, High Voltage Engineering and Application of High Voltage Engineering**, Faculty of Engineering, Kafrelsheikh University, Kafrelsheikh.
- **2016-2020, National and International standard specifications**, Faculty of Engineering, Kafrelsheikh University, Kafrelsheikh.
- **2020-2021: Electrical Installations**, Faculty of Engineering, Kafrelsheikh University, Kafrelsheikh.
- **2020-2021: Electrical and Electronic Engineering**, Faculty of Engineering, Kafrelsheikh University, Kafrelsheikh.
- **2020-2021: Electrical Engineering**, Faculty of Engineering, Kafrelsheikh University, Kafrelsheikh
- **2020-2021: Electrical Power Engineering**, Faculty of Engineering, Kafrelsheikh University, Kafrelsheikh.
- **2013-2021 : High Voltage Engineering**, Faculty of Engineering, Kafrelsheikh University, Kafrelsheikh.

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### *REFERENCES*

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<b>Prof. Dr. Hussein El Desouki</b> <i>Faculty of Engineering and technology, Arab Academy for Science,            Technology &amp; Maritime Transport</i> <b>01006639486</b>	<b>Prof. Dr. Ahmed Hossam Shahin</b> <i>Electrical Power and Machines Eng. Depart.            Faculty of Engineering, Alexandria University</i> <b>01017609778</b>
<b>Prof. Dr. Ahmed Mohamed Refaat Azmy</b> <i>Head of Electrical Power and Machines Eng. Depart.            Faculty of Engineering, Tanta University</i> <b>01229715040</b>	<b>Prof. Dr. Abdel Fathah Helliell</b> <i>Electrical Power and Machines Eng. Depart.            Faculty of Engineering, Alexandria University</i> <b>01023420628</b>

### *PUBLICATIONS (19 ARTICLES)*

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- 2020 F. Selim, S. M. Elkholy and Ahmed F. Bendary, A New trend for indoor lighting design based on a hybrid methodology, International Journal of Daylighting, 2020; Vol 7 (2):137-153.  
<https://doi.org/10.15627/jd.2020.14>
- 2020 Ragab A. El Sehiemy, F. Selim, Bachir Bentouati and M.A. Abido "A novel multi-objective hybrid particle swarm and salp optimization algorithm for technical-economical-environmental operation in power systems", Energy 2020, 193, 116817. <https://doi.org/10.1016/j.energy.2019.116817>
- 2019 Abdel-Fattah Attia, Adel Mahmoud Sharaf and F. Selim "A Multi-Stage Fuzzy Logic Controller for Hybrid-AC Grid-Battery Charging Drive System, Turk J Electronic Energy 2019, 4(2); pp.1-12.  
<https://sloi.org/urn:sl:tjoe42142>.
- 2019 F. Selim, Mohamed I. Abdelwanis " Optimal Operation of Synchronous Motor Using Particle Swarm Optimization and Jaya Techniques", 21st International Middle East Power Systems Conference (MEPCON), Tanta University, Egypt, December 2019.
- 2019 F. Selim, Mohamed I. Abdelwanis " A Newly On-Time Following Up Electrical Earthing System

- Technology", 21st International Middle East Power Systems Conference (MEPCON), Tanta University, Egypt, December 2019.
- 2018 F. Selim, Mohamed I. Abdelwanis " Advanced Low-Cost Smart Power Saving System for Public Buildings", 11th International Conference on Electrical Engineering "ICEENG", Cairo, Egypt, 3-5 April, 2018.
- 2017 Mohamed I. Abdelwanis, F. Selim, Analysis and Implementation of a Six-Phase Induction Motor Drive System, Mepcon 2017, Monoufia University, Egypt, 2017 IEEE, pp.242-247, December 19-21, 2017.
- 2015 1.  
Mohamed I. Abdelwanis, F. Selim, A Sensorless Controller of Submersible Motors Fed From Photovoltaic System, Mepcon 2015, Mansoura University, Egypt, December 15-17, 2015, Paper ID7064.
2.  
Mohamed I. Abdelwanis, F. Selim, Ragab A. El-Sehiemy, An efficient sensorless slip dependent thermal motor protection schemes applied to submersible pumps, International Journal of Engineering Research in Africa Vol. 14 (2015) pp. 75-86, 2015/Mar/02.
- 2013 1.  
I. Bedir, Ahmed M. Azmy, F. Selim, High Quality Circuit Breakers Thermal Inspections, International Journal of Control, Automation and Systems, ISSN 2165-8277 (Print) ISSN 2165-8285 (Online), 2013.
2.  
F. Selim, Ahmed M. Azmy, H. El Desuoki, Economic Investigation of High Quality Thermal Inspections, Journal of Electrical SystemsJ. Electrical Systems 9-1 (2013): 39-51
- 2012 1.  
F. Selim, Ahmed M. Azmy, I. Bedir and H. El Desuoki "Power cables inspection using Matlab graphical user interface aided by thermal camera", Proceedings of the 6th International Scientific Conference of the Military Technical College ICEENG, the 8th International Conference on Electrical Engineering, EE029, 29-31 May, 2012, Cairo, Egypt.
2.  
F. Selim, Ahmed M. Azmy, H. El Desuoki, Economic Investigation of High Quality Thermal Inspections, Mepcon 2012, Alexandria University, Egypt, December 23-25, 2012, Paper ID229.
- 2011 1.  
F. Selim, I. Bedir and H. El desuoki, Power cable inspections using Matlab graphical user interface aided by thermal imaging, 5th Malaysian Conference in Software Engineering (MYSEC), December 2011, pp. 263-268, Johor Bahru, Malaysia
- 2009 Ahmed A. Hossam, F. Selim, New Approach to Numerical Simulation of lightning Arresters in Egyptian unified Grid and Subststions, SIPDA, Brasil, November 2009.
- 2008 1.  
Ahmed A. Hossam, N. Geggi, F. Selim, A Novel Lightning Protection Schme for H.V. Transmission Systems in The Egyptian Unified Network, ICLP 2008
2.  
Ahmed A. Hossam, F. Selim, Study of Lightning Protection of H.V. and E.H.V. Transmission Lines in the Unified Network, MEPCON 2008, Aswan, Egypt.
3.  
Pro.Dr. Ahmed A. Hossam-Eldin, N .A. Abou Heggi, F. Selim, Simulation and Calculations as Tools for Design and Performance of Lightning Arresters in Substations, 2008 International Conference on High Voltage Engineering and Application, Chongqing, China, November 9-13, 2008, pp.180-185
4.  
Pro.Dr. Ahmed A. Hossam-Eldin, N .A. Abou Heggi, F. Selim, Lightning Protection for High Voltage Transmission System and Substations in the Egyptian Unified Grid, Conference: CIGRE Paris, France, August 2008.