



CURRICULUM VITAE

1- PERSONAL DATA:

Name : Sameh Ibrahim Selem Abdallah Abdel Kareem
Gender : MALE
Date of Birth : October 02, 1978
Place of Birth : El Sanagra – Abo Hammad – ElSharkia – Egypt.
Nationality : EGYPTIAN
Address : Electrical Power and Machines Engineering Department, Faculty of Engineering, Zagazig University, Zagazig, EGYPT.
Current Position : Associate professor, Electrical Power & Machines Department, Faculty of Engineering, Zagazig University
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Marital Status : Married with 3 Children.
Major : Electrical Power and Machines Engineering.
Fine : Electric power systems.

2- EDUCATION AND OCCUPATION:

Ph. D. : March 2013, in Electrical power and Machines Engineering, Zagazig University, Egypt.
Ph. D. Title : Self-Tuning of Variable Speed Three Phase Induction Motors.
M.Sc. : Feb. 2008, in Electrical Engineering, Zagazig University, Egypt.
M.Sc. Title : Advanced Technique for Induction Motor Performance Improvement.
B.Sc. : May 2001, in Electrical Engineering, Zagazig University, Egypt. (Very Good 79.09%)

- 2001 – 2008 : Demonstrator in the Department of Electrical Power and Machines Engineering, Faculty of Engineering, Zagazig University, Zagazig, Egypt.
- 2008 – 2013 : Assistant Lecturer in the Department of Electrical Power and Machines Engineering, Faculty of Engineering, Zagazig University, Zagazig, Egypt.
- 2013 – 2020 : Lecturer in the Department of Electrical Power and Machines Engineering, Faculty of Engineering, Zagazig University, Zagazig, Egypt.
- 2020 – present : Associate Professor in the Department of Electrical Power and Machines Engineering, Faculty of Engineering, Zagazig University, Zagazig, Egypt.

3- TEACHING EXPERIENCE:

- Courses : - Electrical Engineering Fundamentals.
 - Electrical Circuit Analysis.
 - Transmission and Distribution Systems.
 - Energy Conversion.
 - Electrical Machines.
 - Utilization of Electric power.
 - Power System Economics.
 - Instruments and Measurements.
 - Industrial Electronics.
 - Power Electronics.
 - Electric Circuits.

4- RESEARCH INTERESTS:

- : Control of Electrical Machines - Renewable energy – Fuel cells – Solar cells

5- THESIS SUPERVISION:

	Name	Supervision	Title	Date
1	Al-hassan Hamdy Mohamed Ahmed Alattar	M. Sc.	Direct torque control of AC motors	02/10/2011 26/04/2015
2	Ehab Adel Abdullah Mohamed yousef	M. Sc.	Power factor correction using switched mode power converters	03/06/2012 25/03/2018
3	Radwa Reda Mohammed Abou El-Ela	M. Sc.	Hybrid electric vehicles based on solar energy	11/01/2015 25/03/2018

4	Al-hassan Hamdy Mohamed Ahmed Alattar	Ph. D.	Control of hybrid Wind-Diesel system based on multiobjective optimization techniques	12/09/2017 11/12/2019
5	Maha Ahmed Goda Mohammed	M. Sc.	Three-phase transformer protection using neural networks	10/04/2016
6	Maha Goda Abdel Hamid Montaser	M. Sc.	An evaluative study of energy saving for induction motors using various strategies	13/12/2016
7	Hany Mohammed Mohammed Deeb	M. Sc.	Photovoltaic water pumping systems using a brushless DC motor	13/12/2016
8	Hala Omran Mohammed Kafafi	M. Sc.	Wireless charging of electric vehicle batteries using inductive power transfer	09/04/2017
9	Omnia El-Sayed Mohammed Rabie Abdel Rahman	M. Sc.	Comparative study of vector control of induction motors using different optimization techniques	26/12/2017
10	Ahmed El-Sayed metwally Mahmoud	Ph. D.	Design and implementation of a closed -loop control system for DC- AC inverter using new trends	12/09/2017 06/12/2020
11	Ahmed Abdel Rahman Morsi Shaier	M. Sc.	Advanced design of wireless power transfer system for electric vehicle charging	26/04/2018 06/12/2020
12	Nada Elsayed Ali Mohammed Elmalt	M. Sc.	Hybrid network performance modeling and analysis	26/04/2018
13	Ibtihal Ali Hassan Selem	M. Sc.	Performance improvement of brushless DC motor for solar electric vehicles	18/11/2018
14	Ahmed Abdel Rahman Morsi Shaier	Ph. D.	Advanced design for stationary and in-motion inductive charging systems for electric vehicles	06/03/2022
15	Ahmad Gamal Mohamed Abdallah	M. Sc.	Smart energy management system with embedded renewable energy sources	11/09/2022
16	Haidy Mohammed AbdelRazik Ahmed	M. Sc.	Parameters estimation of various PV models using optimization techniques	11/09/2022

6- LANGUAGES:

: Arabic.

: English, Fluent spoken and written.

7- PUBLICATIONS:

1. H. M. El-shewi, F. E. Abdel-kader, H. M. Metwally and S. I. Selem, "**Effect of Parameter Variation on the Performance of Field Oriented Induction Motor**", *ERJ. Engineering Research Journal*, Vol. 35, Issue 4, pp. 301-307, October 2012. doi: 10.21608/erjm.2012.67180
2. H. M. El-shewi, F. E. Abdel-kader, H. M. Metwally and S. I. Selem, "**Self Tuning of Class H Induction Motor Field Oriented Control**", *ERJ. Engineering Research Journal*, Vol. 35, Issue 4, pp. 309-315, October 2012. doi: 10.21608/erjm.2012.67182
3. H. M. Metwally, S. I. Selem and A. H. Alattar, "**Sensorless Induction Motor Direct Torque Control Based on Model Reference Adaptive Systems**", *ERJ. Engineering Research Journal*, Vol. 37, Issue 3, pp. 315-321, July 2014. doi: 10.21608/erjm.2014.66933
4. S.I.Selem, Hamid M.B.Metwally, and Ehab A. Abdullah, "**Design of Controller for Active Power Factor Correction System Using Metaheuristic Optimization Algorithms**", *Egyptian International Journal of Engineering Sciences and Technology (EIJEST)*, Vol. 23, pp. 9-20, April 2017. doi: 10.21608/eijest.2017.97197
5. Radwa R. Abou El-Ela, Mahmoud Mohamed Elkholy, S. I. Selem, H. M. B. Metwally, "**Parameter Estimation of Lithium-ion Batteries Dynamic Model Based on Water Cycle Algorithm**", *2017 Nineteenth International Middle East Power Systems Conference (MEPCON)*, Cairo, 2017, pp. 127-133, doi: 10.1109/MEPCON.2017.8301174.
6. A. H. Alattar, S. I. Selem, H. M. B. Metwally, A. Ibrahim, R Aboelsaud, M. A Tolba and A. M. El-Rifaie, "**Performance Enhancement of Micro Grid System with SMES Storage System Based on Mine Blast Optimization Algorithm**", *Energies*, Vol. 12, Issue 16, August 2019. doi: 10.3390/en12163110
7. A. H. Alattar, S. I. Selem, H. M. B. Metwally, M. E. Lotfy and T. Senjyu, "**Load Frequency Control Scheme of Hybrid Wind Diesel System based on Mine Blast Algorithm**", *Journal of Electrical Engineering*, Vol. 19, No. 4, 2019.
8. Ahmed A.S. Mohamed, Hamid Metwally, Ahmed El-Sayed and S.I. Selem, "**Predictive Neural Network Based Adaptive Controller for Grid-Connected PV Systems Supplying Pulse-Load**", *Solar Energy*, Vol. 193, pp. 139-147, November 2019. doi: 10.1016/j.solener.2019.09.018
9. A. H. Alattar, S. I. Selem, H. M. B. Metwally, M. E. Lotfy and T. Senjyu, "**Design of PID Controller of Hybrid Renewable Wind-Diesel System based on Multiobjective Optimization Techniques in Remote Areas**", *Journal of Electrical Engineering*, Vol. 20, No. 2, 2020.
10. Ahmed A.S. Mohamed, Ahmed A. Shaier, Hamid Metwally and Sameh I. Selem, "**A comprehensive Overview of Inductive Pad in Electric Vehicles Stationery Charging**", *Applied Energy*, Vol. 262, 114584, March 2020. doi: 10.1016/j.apenergy.2020.114584
11. Sameh I. Selem, Hany M. Hasanien, and Attia A. El-Fergany, "**Parameters Extraction of PEMFC's Model Using Manta Rays Foraging Optimizer**", *Int J Energy Res.*; Vol. 44, Issue 6, pp. 4629-4640. May 2020. doi: 10.1002/er.5244

12. Ahmed A.S. Mohamed, Ahmed El-Sayed, Hamid Metwally and Sameh I. Selem, "**Grid Integration of a PV System Supporting an EV Charging Station Using Salp Swarm Optimization**", *Solar Energy*, Vol. 205, pp. 170-182, July 2020. doi: 10.1016/j.solener.2020.05.013
13. Ahmed A.S. Mohamed, Ahmed A. Shaier, Hamid Metwally and Sameh I. Selem, "**Interoperability of the Universal WPT3 Transmitter with Different Receivers for Electric Vehicle Inductive Charger**", *eTransportation*, Vol. 6, Article 100084. Nov. 2020. doi: 10.1016/j.etrans.2020.100084
14. Sameh I. Selem, Attia A. El-Fergany, and Hany M. Hasanien, "**Artificial Electric Field Algorithm to Extract Nine Parameters of Three-Diode Photovoltaic Model**", *Int J Energy Res.*; Vol. 45, Issue 1, pp. 590-604. Jan. 2021. doi: 10.1002/er.5756
15. Sameh I. Selem, Hany M. Hasanien, and Attia A. El-Fergany, "**Equilibrium Optimizer for Parameter Extraction of a Fuel Cell Dynamic Model**", *Renewable Energy*; Vol. 169, pp. 117-128. May. 2021. doi: 10.1016/j.renene.2020.12.131
16. A Ahmed A.S. Mohamed, Ahmed A. Shaier, Hamid Metwally and Sameh I. Selem, "**An overview of Dynamic Inductive Charging for Electric Vehicles**", *Energies*, Vol. 15, Issue 15, August 2022. doi: 10.3390/en15155613
17. Ahmed A. Shaier, Ahmed A. S. Mohamed, Hamid Metwally and Sameh I. Selem, "**A new hollow solenoid receiver compatible with the global double-D transmitter for EV inductive charging**", *Scientific Reports*, Vol. 13, 1925 (2023). doi:10.1038/s41598-023-38645-1
18. Ahmed A. Shaier, Ahmed A. S. Mohamed, Hamid Metwally and Sameh I. Selem, "**New design of high-power in-motion inductive charger for low power pulsation**", *Scientific Reports*, Vol. 13, 17838 (2023). doi: 10.1038/s41598-023-44949-z
19. Ahmed A. S. Mohamed, Ahmed A. Shaier, Hamid Metwally and Sameh I. Selem, "**Wireless Charging Technologies for Electric Vehicles: Inductive, Capacitive, and Magnetic Gear**", *IET Power Electronics*, In press

8- Links to Google Scholar / Researchgate / Scopus / ORCID:

ElsevierScopus	Scopus Author ID: 57202213486
Author Identifier	https://www.scopus.com/authid/detail.uri?authorId=57202213486
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