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SCOPUS: Ghanem, Abdelhady Tolba Mohamed - Author details - Scopus Preview

Education/ Academic qualifications (start with your most recent education first)

Year	School / University	Specialization	Degree
2017	**Mansoura University**	**Electrical Power and Machines**	**PhD**
2011	**Mansoura University**	**Electrical Power and Machines**	**Msc**
2006	**Mansoura University**	**Electrical Power and Machines**	**Bsc**

Academic Employment History (start with your most recent education first)

From:	To:	University / Organization	Title of Position
2022	**Till now**	**Mansoura University**	Associate Professor
2017	**2022**	**Mansoura University**	Assistant Professor
2011	**2017**	**Mansoura University**	Assistant lecturer
2006	**2011**	**Mansoura University**	Demonstrator

Administrative Positions:

From:	To:	University / Organization	Title of Position
2019	2021	**Mansoura University**	Director of Maintenance and IT unit

Teaching Experience (Courses, Language, Higher Education Only)

1- Electrical Machines.
2- Electrical Motor Drives.
3- Power Electronics.
4- Electrical Machines Analysis.

I do hereby declare that the information furnished above is true to the best of my knowledge.

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5- Electrical Machines Design.
6- Electrical Circuits.
7- Electrical Measurements.
8- Power system.
9- Renewable Energy.

Publications:

Identify type of publication: book, refereed article, book chapter, journal article, non-refereed paper, major report, technical reports, research funds/grants

[1] Ahmed S. Gardouh, Sayed Abulanwar, Fujin Deng, Eid Gouda, and Abdelhady Ghanem, "Novel Fuzzy-based Open-Switch Fault Detection Scheme of Voltage Source Inverter Induction Motor Drive" in *IEEE Transactions on Power Electronics*, Early Access, 2024.

[2] A. Ghanem, M. Saeed, S. Abulanwar, W. Hu, F. Deng, and H. Khater, "Padé Approximation Based Open Switch Fault Detection for Induction Motor Drive System," *in 2024 6th Asia Energy and Electrical Engineering Symposium (AEEES)*, 2024: IEEE, pp. 569-574.

[3] A. S. Gardouh, E. Gouda, and A. Ghanem, "Maximum/Minimum Output Current Extraction Based Open-Switch Fault Diagnosis of Voltage Source Inverter," *Mansoura Engineering Journal*, vol. 49, no. 4, p. 14, 2024.

[4] B. G. Basher, A. Ghanem, S. Abulanwar, M. K. Hassan, and M. E. Rizk, "Fault classification and localization in microgrids: Leveraging discrete wavelet transform and multi-machine learning techniques considering single point measurements," *Electric Power Systems Research*, vol. 231, p. 110362, 2024.

[5] Y. Kassab, E. Gouda and A. Ghanem, "Optimum Design of a Coaxial Magnetic Gear Integrated with a Permanent Magnet Synchronous Generator of a Wind Turbine based on the Pelican Optimization Algorithm," in *SN Applied Sciences Journal*, Accepted, 2024.

[6] Y. Kassab, E. Gouda and A. Ghanem, "Analysis of a coaxial magnetic gear optimally designed using the Particle Swarm Optimization algorithm," in *Mansoura Engineering Journal*, Accepted, 2024.

[7] Z. Yin, F. Deng, A. Ghanem, S. S. Kaddah and S. Abulanwar, "PLPR-Based Predictive Control for LCL-Filtered Voltage Source Inverters," in *IEEE Transactions on Power Electronics*, Early Access, 2024.

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[8] Mohamed El-madawy, Abdelhady Ghanem, Sayed Abulanwar and Ahmed Shahin, "Neural Network-Based Fault Distance Estimation for Multi-Terminal DC Microgrids," *in Mansoura Engineering Journal, Accepted Jan 13, 2024.*

[9] Afaf Rabie, Abdelhady Ghanem, Sahar S. Kaddah and Magdi M. El-Saadawi, "Independent Electric Vehicle based Frequency/Voltage Support in Weak Grids," *24th International Middle East Power Systems Conference (MEPCON)*, Mansoura, Egypt, 19-21 December, 2023.

[10] Ahmed M. Elbeshbeshy, Abdelhady Ghanem, Sayed Abulanwar, Fujin Deng, Sahar S. Kaddah and Mohammad E. M. Rizk, "Enhanced Stability in Hybrid AC/DC Microgrids with Controlled Magnetic Energy Router," *24th International Middle East Power Systems Conference (MEPCON)*, Mansoura, Egypt, 19-21 December, 2023.

[11] Ahmed S. Gardouh, Abdelhady Ghanem, Sayed Abulanwar and Eid Gouda, "Current Components Extraction Based Open Switch Fault Detection for Induction Motor Drive System," 24th International Middle East Power Systems Conference (MEPCON), Mansoura, Egypt, 19-21 December, 2023.

[12] Mahmoud I. Elkasas, Mahmoud Hamouda, Abdelhady Ghanem and Mohamed F. Kotb, "Experimental Measurement Based Accurate Modelling Method for Switched Reluctance Motors," *24th International Middle East Power Systems Conference (MEPCON)*, Mansoura, Egypt, 19-21 December, 2023.

[13] S. Abulanwar, M. E. M. Rizk, W. Hu, Z. Chen and A. Ghanem, "Novel Zonal Fault Detection Scheme for DC Wind Farm Via Disposition of Surge Arresters in Multipurpose Grounding System," in *IEEE Transactions on Power Delivery*, 2023.

[14] Rizk, Mohammad EM, Abdelhady Ghanem, Sayed Abulanwar, Ahmed Shahin, Yoshihiro Baba, Farhan Mahmood, and Islam Ismael. "Induced Electromagnetic Fields on Underground Cable Due to Lightning-Struck Wind Tower." IEEE Transactions on Electromagnetic Compatibility (2023).

[15] Afaf Rabie, Abdelhady Ghanem, Sahar S. Kaddah and Magdi M. El-Saadawi, " Enhancing the performance of radial distribution systems via optimal integration of electric vehicles", International Journal of Power Electronics and Drive Systems (IJPEDS) Vol. 14, No. 4, December 2023, pp. 2514-2526.

[16] Afaf Rabie, Abdelhady Ghanem, Sahar S. Kaddah and Magdi M. El-Saadawi, "Electric vehicles based electric power grid support: a review", International Journal of Power Electronics and Drive Systems (IJPEDS) Vol. 14, No. 1, March 2023, pp. 589-605.

I do hereby declare that the information furnished above is true to the best of my knowledge.

Name: **Signature:**

[17] A. Elmitwally and A. Ghanem, "One-End Method for Fault Location in Radial Distribution Network with DG," *2023 IEEE Conference on Power Electronics and Renewable Energy (CPERE)*, Luxor, Egypt, 2023, pp. 1-6.

[18] Akram Elmitwally, Abdelhady Ghanem, "Communication-Free Travelling Wave-Based Method for Ground Fault Location in Radial Distribution Network with DG," *23rd International Middle East Power Systems Conference (MEPCON)*, Cairo, Egypt, 2022, pp. 1-6.

[19] Y. Kassab, E. Gouda, A. Elmitwally and A. Ghanem, "Design and performance of a magnetic gear with a gear ratio (Gr = 3.5)," *23rd International Middle East Power Systems Conference (MEPCON)*, Cairo, Egypt, 2022, pp. 1-6.

[20] A., Shahin, S., Abulanwar, A., Ghanem, M.E., Rizk, F., Deng, S., Pierfederici and I., Ismael, "Sensorless Robust Flatness-Based Control with Nonlinear Observer for Non-Ideal Parallel DC-AC Inverters", IEEE Access 2022.

[21] A. Shahin, A. Ghanem, W. Hu and S. Abulanwar, "Robust Flatness Controller for DC/DC Converter for Fuel Cell under Constant Power Load", *2022 4th Asia Energy and Electrical Engineering Symposium (AEEES)*, 2022, pp. 587-593.

[22] Rizk, M. E. M., Abulanwar, S. M., Ghanem, A. T. M., & Lehtonen, M. "Computation of Lightning-Induced Voltages Considering Ground Impedance of Multi-Conductor Line for Lossy Dispersive Soil", IEEE Transactions on Power Delivery, 2021.

[23] S. Abulanwar, A. Ghanem, M. E. Rizk, and W. Hu, "Adaptive Synergistic Control Strategy for A Hybrid AC/DC Microgrid During Normal Operation and Contingencies", Applied Energy Journal, 2021.

[24] Akram Elmitwally, Abdelhady Ghanem, "Local current-based method for fault identification and location on series capacitor-compensated transmission line with different configurations", International Journal of Electrical Power & Energy Systems, Volume 133, 2021.

[25] M. Rizk, S. Abulanwar, A. Ghanem, and Z. Chen. "Investigation of Novel DC Wind Farm Layout during Continuous Operation and Lightning Strikes." IEEE Transactions on Power Delivery (2020).

[26] Afaf Rabie, Abdelhady Ghanem, Sahar Kaddah and Magdi Saadawi, "Frequency Stability in Weak Grids Using Independent Electric Vehicle," MEPCON, Dec. 2019, Cairo.

I do hereby declare that the information furnished above is true to the best of my knowledge.

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[27] A. Ghanem, S. Abulanwar, M. Rizk, and I. Ismael, " Multidisciplinary Control Scheme based Capacitor Voltage for LCL Filtered Grid Connected Converter," IEEE Conference on Power Electronics and Renewable Energy, 23-25 Oct. 2019, Aswan, Egypt.

[28] Mohammad E. M. Rizk, Matti Lehtonen, Yoshihiro Baba, A. Ghanem, "Protection against Lightning-Induced Voltages: Transient Model for Points of Discontinuity on Multi-conductor Overhead Line", IEEE Transactions on Electromagnetic Compatibility, 2019.

[29] A. Ghanem, S. Abulanwar, M. Rizk, and M. Rashed, "A Proposed Controller and Stability Analysis for DFIG To Suppress Stator Flux Oscillations During Autonomous Operation," IET Renewable Power Generation, 2019.

[30] S. Abulanwar, A. Ghanem, M. E. Rizk, and W. Hu, "A proposed flicker mitigation scheme of DFIG in weak distribution networks," Alexandria Engineering Journal, 2019.

[31] Ghanem, Abdelhady, Mohamed Rashed, Mark Sumner, Mohamed Adel El-sayes, and Ibrahim II Mansy. "Wide frequency range active damping of LCL-filtered grid-connected converters." The Journal of Engineering 2019, no. 17 (2019): 3542-3547

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[34] Ghanem, A. Rashed, M. Sumner, M. El-sayes, and I. I. I. Mansy, "Hybrid active damping of LCL-filtered grid connected converter," 2016 IEEE 2nd Annual Southern Power Electronics Conference (SPEC).

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[36] M. Rashed, Abd El-Hady Ghanem, A. El-Sayes and III. Mansy "Control Strategy for an Isolated DFIG Based Micro-Grid with Integrated Super-Capacitors", The

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Online Journal on Electronics and Electrical Engineering (OJEEE), Vol. 1, No. 2, October 2009, pp. 81-88.

[37] Elmitwally A, Rashed M and Ghanem A., "A Proposed Scheme for Torque Ripple Minimization of SRM In Four Quadrants of Operation" Engineering Conference, Faculty of Engineering, Mansoura University, EGYPT, 2008.

Other Relevant Experience

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