

1. Name:

- Yehya Ibrahim Mesalam Ali

2. Education:

- Ph.D. in Industrial Engineering and Systems, Zagazig University, (2012)
- M.Sc. in Industrial Engineering and System, Zagazig University, (2005)
- B.SC. In Industrial and Production Engineering, Zagazig University, (1994)

3. Academic experience:

- Northern Border University, Assistant professor of Industrial Engineering, Department of Industrial Engineering, (4/12/2017- Present), full-time
- Zagazig University, Assistant professor of Industrial Engineering, Department of Industrial Engineering, (27/3/2012- 2/12/2017). full-time
- Zagazig University, Assistant Lecturer in Industrial Engineering Department, (26/3/2005 - 26/3/2012), full-time
- Zagazig University, Administrator in Industrial Engineering Department, (6/9/1998 – 25/3/2005), full-time

4. Non-academic experience:

- None

5. Certifications or professional registrations:

- None

6. Current membership in professional organizations:

- Egyptian Engineers Syndicate
- Egyptian Society of Mechanical Engineers

7. Honors and awards:

- None

8. Service activities (within and outside of the institution):

- None

9. Briefly list the most important publications and presentations:

- Alsaif, N. A., Al-Ghamdi, H., El-Refaey, A. M., Sadeq, M. S., Shams, M. S., Shaaban, S. M., Mesalam, Y.I & Elsad, R. A. (2024). Synthesis, structural, optical properties and dielectric spectroscopy of nickel-doped lead borate glasses. *Optical and Quantum Electronics*, 56(3), 383. (<https://link.springer.com/article/10.1007/s11082-023-06059-y>)
- Y. I. Mesalam, S. Awdalh, H. Gaied, and A. Flah, (2024) “Interleaved Bidirectional DC-DC Converter for Renewable Energy Application based on a Multiple Storage System”, *Eng. Technol. Appl. Sci. Res.*, vol. 14, no. 2, pp. 13329–13334, Apr. 2024.
- Yadav, A. K., Singh, K., Arshad, N. I., Ferrara, M., Ahmadian, A., and Mesalam, Y.I. (2024). Novel Consensus Protocol Selection Model for Efficient Blockchain Application Development Using MADM. *Results in Engineering*.
- Al-Ghamdi, H., Al-Omari, S., Alsaif, N. A., Afaneh, F., Zakaly, H. M., Issa, S. A., ... & Mesalam, Y. I. (2024). Influence of [Na₂O]/[CuO] on the physical and photon attenuation capacities of cupric sodium phosphate glasses: A

comparative study. *Optical and Quantum Electronics*, 56(1), 89. (<https://link.springer.com/article/10.1007/s11082-023-05679-8>)

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- Ahmed, Hossam E. , Mesalam, Y.I, and Shaaban, Shaaban M. (2024).Extraction of Solar Module Parameters Using a Novel Optimization Technique. *Engineering, Technology & Applied Science Research*, Vol. 14, No. 2.
- Agwa, A. M., Mesalam, Y. I., Hassan, M. H., El-Dabah, M. A., El-Sherif, A. M., & Kamel, S. (2022).“Improved Gradient-Based Optimizer for Modelling Thermal and Hydropower Plants”, *International Transactions on Electrical Energy Systems*, Volume 2022, <https://doi.org/10.1155/2022/3990226>
- Zaky, M. S., Shaaban, S. M., Fetouh, T., Azazi, H. Z., & Mesalam, Y. I. (2022). Optimization of Observer Feedback Gains for Stable Sensorless IM Drives at Very Low Frequencies: A Comparative Study between GA and PSO. *Mathematics*, 10(10), 1710. <https://doi.org/10.3390/math10101710>
- Shaaban, S. M., & Mesalam, Y. I. (2022). SVC parameters optimization using a novel integrated MCDM approach. *Symmetry*, 14(4), 702. <https://doi.org/10.3390/sym14040702>
- Zaied, Abdel Nasser H., Elawady, Hesham, Mesalam, yehya, and Haweel, Mohamed.(2018). The Impacts of Human Resource Management Practices on Company Labor Productivity: Empirical Evidence from Iron and Steel Company in Libya. *American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS)*, Volume 15, No 1, pp 19-33.
- Elbaz, M., & Mesallam, Y. (2012). TOPSIS AND MULTI-CHOICE GOAL PROGRAMMING APPROACH SUPPLIER SELECTION IN SUPPLY CHAIN MANAGEMENT. *The Egyptian International Journal of Engineering Sciences and Technology*, 15(EIJEST, Vol. 15, 2012), 154-166.
- El-baz, M. A., & Mesalam, Y. I. (2011). AN INTEGRATED APPROACH FOR MULTI-OBJECTIVE PRODUCTION AND DISTRIBUTION PLANNING IN SUPPLY CHAIN MANAGEMENT. *The Egyptian International Journal of Engineering Sciences & Technology*, 14(3).
- Ibrahim, M. S., Elbaz, M. F., & Mesalam, Y. I. (2005). Activity-Based Costing for Evaluating Manufacture Facilities Decisio Making. *The Egyptian International Journal of Engineering Sciences and Technology*, 9(EIJEST, Vol. 9, 2005), 2-3.
- Ibrahim, M. S., Elbaz, M. F., & Mesalam, Y. I. (2004). Fuzzy Goal Programming Approach for Multi Objective Decision Making Problems. 8Th International conference on Production Engineering Design and Control, 27-29 December 2004, Alexandria, Egypt.

10. Briefly list the most recent professional development activities:

- Co-researcher in research under titled “*Improved Gradient-Based Optimizer for Modelling Thermal and Hydropower Plants*”, (2021-2022).
- Co-researcher in research under titled “*Extraction of Solar Module Parameters Using a Novel Optimization Technique*”, (2021-2022).

- Principal researcher in research under the title “Interleaved bidirectional DC–DC converter for renewable energy application based on multiple storage systems”, (2022-2023).