

| Contact Information | | | |
|---|----------------------------|---|---|
| Name: Rania Mahmoud Ibrahim Elbana | | | |
| Address: Samannoud - Gharbia- Egypt | | | |
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| Email address: relbana@horus.edu.eg, relbana@mc.edu.eg, eng.relbana@gmail.com. | | | |
| Google scholar: Rania Elbana | | | |
| Research gate: Rania ELBANA Research profile (researchgate.net) | | | |
| Web of science: JWO-5756-2024 | | | |
| ORCID:0009-0006-6900-7173 | | | |
| SCOPUS: - | | | |
| Education/ Academic qualifications (start with your most recent education first) | | | |
| Year | School / University | Specialization | Degree |
| 2020 | Mansoura University, Egypt | Production Engineering and Mechanical design (Design and Manufacturing Engineering) | Ph. D. in Engineering |
| 2015 | Mansoura University, Egypt | Production Engineering and Mechanical design | M. Sc. in Engineering |
| 2009 | Mansoura University, Egypt | Production Engineering and Mechanical design | B. Sc. |
| Academic Employment History (start with your most recent education first) | | | |
| From: | To: | University / Organization | Title of Position |
| October 2023 | Present | Faculty of Engineering – Horus University in Egypt | Assistant Professor at Mechatronics Department |
| November 2020 | September 2023 | Mansoura Higher Institute for Engineering and Technology | Assistant Professor at Basic Science Department |
| December 2015 | November 2020 | Mansoura Higher Institute for Engineering and Technology | Assistant lecturer at Basic Science Department |
| August 2012 | December 2015 | Mansoura Higher Institute for Engineering and Technology | A demonstrator at Basic Science Department |
| August 2009 | August 2012 | Higher Institute for Engineering and Technology in New Damietta | A demonstrator at Basic Science Department |
| Administrative Positions: | | | |

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

Name:

Signature:

| From: | To: | University / Organization | Title of Position |
|---------------|----------------|---|--|
| November 2020 | September 2023 | Mansoura Higher Institute for Engineering and Technology. | Coordinator of Basic Science Department in Quality Assurance Unit, |
| November 2020 | September 2023 | Mansoura Higher Institute for Engineering and Technology. | Member in Quality Assurance Unit, |

Teaching Experience (Courses, Language, Higher Education Only)

- Modeling & Simulation of Mechanical Systems
- Principles of Design & Manufacturing Engineering
- Monitoring & Quality Control Systems
- Statistics & Probability Theory
- Communication & Presentation Skills
- Mechanics
- Engineering Economics
- Engineering Drawing and Projection
- Principles of Manufacturing Engineering
- Principle of Mechanical Power Engineering
- Fluid Mechanics
- Thermodynamics
- Strength of Material
- Operation Research
- Metallurgy
- Project Management
- Heat Transfer

Publications:

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

1. Rania Elbana , Rania Mostafa, Ahmed Elkeran, "**Data Processing for Automatic Classification of Spheroidite Microstructure using Deep Learning Based on FCNNs**", Int. J. Mech. Mechatronics Eng., 20(3), 18–31 (2020).
2. N. Fouda, R. El-Bana, and M. Samuel, "**Experimental and numerical prediction of spring back in U-bending**", Int. J. Mech. Mechatronics Eng., 15(5), 28–38 (2015).

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

Name:

Signature: