

Yomna Mohammad Ali Ibraheem

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🌐 [Scopus](#) - [Linkedin](#)

Personal Information

Name: Yomna Mohammad Ali Ibraheem.

Date of Birth: 22/1/1987.

Gender: Female.

Marital Status: Married.

Work address: Al-Azhar University – Nasr City – Cairo – Egypt.

Current Position: Assistant Professor of Computer Science, Software Engineering department, Faculty of Computing and Information, Al-Baha University.

Experience

January 2023 – Current

Assistant Professor of computer science

Software Engineering department, Faculty of Computing and Information, Al-Baha University.

September 2020 - January 2023

Faculty of sciences, Al-Azhar University, Cairo, Egypt

Lecturer of Computer Science

- Key member of the digital transformation committee at the university.
- Active and affective member at the quality assurance unit, with a high awareness of the whole quality process.
- Contributed and organized two conferences through managing the conference online system and website, setting sessions schedule, and equipping the holding place for the virtual sessions.
- Part time assistant professor at other institutions including Canadian International Collage.
- Reviewer in some journals including IEEE Access and Artificial Intelligence.
- Highly skilled researcher with many scopus indexed papers.

April 2015 - August 2020

Assistant Lecturer

Faculty of sciences, Al-Azhar University - Cairo, Egypt

March 2012 - March 2015

Demonstrator

Faculty of sciences, Al-Azhar University - Cairo, Egypt

August 2009 - March 2012

Teacher

Al-Azhar Institutions Sector - South Sinai, Egypt

Qualifications

1. B.SC. Math and Computer Science department, Faculty of science, Al-Azhar University, May 2008.
2. Software Engineering and Quality Assurance Diploma, Information Technology Institute, July 2009.
3. Educational Diploma, Faculty of Education, Al-Azhar University, 2010.
4. M. Sc. Titled "Content Based Social Network Analysis", Math and Computer Science department, Faculty of science, Al-Azhar University, August 2014.
5. Ph. D. Titled "Design of an Intelligent System for Robust Facial Expression Recognition Using Thermal Imaging", Math and Computer Science department, Faculty of science, Al-Azhar University, January 2020.

Technical Skills

- Artificial Intelligence applications.
- Operating Systems:
 - Microsoft Windows (98 to 10)
 - sUNIX (Solaris 10).
- Programming Languages:
 - Microsoft Visual C#.NET framework.
 - Java programming.
 - Advanced Java programming.
 - Android Mobile applications.
 - Matlab.
 - Python.
- Web Development and Technologies:
 - HTML.
 - JavaScript.
 - ASP.NET using framework 3.0 and AJAX.
 - XML Web Services and WCF.
 - XML and Allied Technologies.
 - PHP.
- Database Management Systems:
 - ORACLE SQL/PLSQL.
 - Microsoft SQL Server.
 - Microsoft Business Intelligence.
 - Microsoft Access.
 - Mysql.
- UML and Testing Tools
 - Visual Studio.NET
 - Rational Rose.
 - Argo UML.
 - Rational Manual Tester.

Publications

1. Neveen I. Ghali, Omar Soluiman, Nashwa El-Bendary, Tamer M. Nassef, Sara A. Ahmed, Yomna M. Elbarawy, and Aboul Ella Hassanien Virtual reality technology for blind and visual impaired people: Reviews and Recent Advances, *Advances in Robotics and Virtual Reality Intelligent Systems Reference Library* Volume 26, 2012, pp 363-385.
2. Mostafa Salama, Mrutyunjaya Panda, Yomna Elbarawy and Aboul Ella Hassanien, Ajith Abraham "Social Networks Security and Privacy: Basics, Threats and Case Study to Visualize Foreign Terrorist Network dataset" "Computer and Communication Networks. Springer 2012.
3. Yomna M. Elbarawy, Ramadan F. Mohamed and Neveen I. Ghali, "Improving Social Network Detection Using DBSCAN Algorithm", *Proceeding of World Sempion on Computer Applications and Research (WSCAR)*, IEEE, ISBN: 978-1-4799-2805-7, 2014.
4. Yomna M. El Barawy, Lamiaa M. El Bakrawy and Neveen I. Ghali, "K-Means Clustering with Swarm Optimization for Social Network Community Detection", *Asian Journal of Mathematics and Computer Research*, Vol. 3(4), pp. 220-230, 2015.
5. Yomna M. Elbarawy, Rania Salah El-Sayed and Neveen I. Ghali, "Local Entropy and Standard Deviation for Facial Expressions Recognition in Thermal Imaging", *Bulletin of Electrical Engineering and Informatics (BEEI)*, Vol. 7(4), pp. 580-586, December 2018. (Q2)
6. Yomna M. Elbarawy, Neveen I. Ghali and Rania Salah El-Sayed, "Facial Expressions Recognition in Thermal Images Based on Deep Learning Techniques", *International Journal of Image, Graphics and Signal Processing (IJIGSP)*, Vol. 11(10), pp. 1-7, 2019.
7. Yomna M Elbarawy, Wafaa A Ghonaim, "Hybridized Convolution Neural Network and Multiclass-SVM Model for Writer Identification", *Engineering Letters*, Vol. 29(1), pp. 317-326, 2021. (Q2)
8. Abeer S Desuky, Yomna M Elbarawy, Samina Kausar, Asmaa Hekal Omar, Sadiq Hussain, "Single-Point Crossover and Jellyfish Optimization for Handling Imbalanced Data Classification Problem", *IEEE Access*, Vol. 10, pp. 11730-11749, 2022. (Q1)
9. Yomna M. Elbarawy, Wafaa A. Ghonaim, Abeer S. Desuky, "Diagnostic Study for Parkinson'S Disease Based on Handwriting Analysis Using Computational Intelligence Techniques", *IAENG International Journal of Computer Science*, 2023, Vol. 50(1), pp. 247-254, 2023. (Q2)
10. Emi Kalita, Solomon Sunday Oyelere, Silvia Gaftandzhieva, Kandala N. V. P. S. Rajesh, Senthil Kumar Jagatheesaperumal, Asmaa Mohamed, Yomna M. Elbarawy et al. "Educational data mining: a 10-year review". *Discover Computing*, Vol. 28, 81, 2025.
11. Awaad, A.S.; Elbarawy, Y.M.; Mancy, H.; Ghannam, N.E. "Exploring CBC Data for Anemia Diagnosis: A Machine Learning and Ontology Perspective", *BioMedInformatics*, Vol. 5(3), 35, 2025.