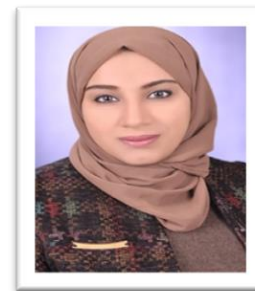


Curriculum Vitae (CV)

Hanaa Ali Eldidamony



Personal Information:

Academic Rank: Assistant Lecturer.

Department: Basic Science.

Specialization: Mathematical Engineering (Pure Mathematics: Differential Equations).

Position: Assistant Lecturer.

Google Scholar: [Hanaa A. Eldidamony - Google Scholar](#)

Research Gate: [\(19\) H.A. Eldidamony \(researchgate.net\)](#)

ORCID Record: 0000-0001-6716-7268

Scopus ID: 57408331400

Email: Hanaa.Eldidamony@hti.edu.eg

Mobile/WhatsApp: +2 / 01069079692

Education:

Degree	Discipline	Institution	Year
Ph.D.	Pure Mathematics	AL-AZHAR UNIVERSITY	2022
M.Sc.	Pure Mathematics	ZAGAZIG UNIVERSITY	2017
B.Sc.	Mathematics and Computer Science	ZAGAZIG UNIVERSITY (GIRLS BRANCH)	2009

Academic Experience:

Institution: Higher Technological Institute: 10th of Ramadan branch (HTI)

Rank: Assistant Lecturer

Dates: from 8/2017 till now

Institution: Higher Technological Institute: 10th of Ramadan branch (HTI)

Rank: Teaching Assistant

Dates: 9/2009 to 8/2017

Research interests:

- optical fiber
- optics
- solitons

Publications:

- E. A. Youness, M. A. Maaty, H.A. Eldidamony, A Two-dimensional approach for finding approximated solutions of optimization problems, *International Journal of Advanced Research* 4(2): 1083-1090, (2016).
- E. A. Youness, M. A. Maaty, H.A. Eldidamony, A Two-dimensional approach for finding solutions of nonlinear fractional programming problems, *Journal of computer science approaches* 2(1): 6-10, (2016).
- H.A. Eldidamony, Hamdy M. Ahmed, A.S. Zaghrou, Y.S. Ali, Ahmed H. Arnous, Mathematical methods for construction new soliton solutions of Radhakrishnan-Kundu Lakshmanan equation, *Alexandria Engineering Journal*, 61(9) (2022)7111-7120.
- Hanaa A. Eldidamony, Hamdy M. Ahmed, Afaf S. Zaghrou, Youssra S. Ali, Ahmed H. Arnous, Highly dispersive optical solitons and other solutions in birefringent fibers by using improved modified extended tanh-function method, *Optik* 256(2022)168722.
- Hanaa A. Eldidamony, Hamdy M. Ahmed, Afaf S. Zaghrou, Youssra S. Ali, Ahmed H. Arnous, Optical solitons with Kudryashov's quintuple power law nonlinearity having nonlinear chromatic dispersion using modified extended direct algebraic method, *Optik* 262(2022)169235.
- Hanaa A. Eldidamony, Hamdy M. Ahmed, Afaf S. Zaghrou, Youssra S. Ali, Ahmed H. Arnous, Structures solitons in birefringent fibers with Kerr and non-local laws of refractive index using improved modified extended tanh-function method, *Results in Physics* 38(2022)105641.
- Hanaa A. Eldidamony, Hamdy M. Ahmed, Afaf S. Zaghrou, Youssra S. Ali, Ahmed H. Arnous, Cubic–quartic solitons in twin-core couplers with optical metamaterials having Kudryashov's sextic power law of arbitrary refractive index by using improved modified extended tanh-function method, *Optik* 265(2022)169498.
- Hanaa A. Eldidamony, Hamdy M. Ahmed, Afaf S. Zaghrou, Youssra S. Ali, Ahmed H. Arnous, Exploring the solitons for multiple-core couplers having optical metamaterials using the modified extended direct algebraic method, *Optik* 267(2022)169646.
- El-didamony, H., Ahmed, H.M., Zaghrou, A. et al. Perturbations of solitons in highly dispersive for nonlinear Schrödinger's equation without self-phase modulation using modified extended direct algebraic technique. *Opt Quant Electron* 54, 788 (2022).

Conferences:

- applications group. Faculty of Science, Alexandria Attending the 6th. Symposium of fractional calculus and University, August 4th 2014.
- Attending summer school of fractional-order differential equations. Faculty of Science, Alexandria University, August 5-7, 2014.
- Participating in the 5th International Conference on Mathematics & Information Science (ICMIS), Zewail City of Science and Technology, 11-13 Feb.2016, E. A. Youness, M. A. Maaty, H.A. Eldidamony, A Two-dimensional approach for finding solutions of nonlinear fractional programming problems.
- Participating in the Workshop on Computer Science and their Applications, Department of Math., Faculty of Science, Zagazig University, 16 July- 2016. (E. A. Youness, M. A. Maaty, H.A. Eldidamony, A Two-dimensional approach for finding solutions of nonlinear fractional programming problems).
- Participating in the international Conference on Mathematics, Trends and Development Science (ICMTD17), The Egyptian Mathematical Society, 28-30 Dec.2017. (E. A. Youness, N.A.El-Kholy, H.A. Eldidamony, Advanced Approach for Multi-Objective Fractional Programming Problems) .

Workshops:

- Attending workshop (Computer Science and their Applications), Department of Math., Faculty of Science, Zagazig University, 16 July- 2016.
- Attending workshop (International Publication Course for Scientific Research), Higher Technological Institute,10th of Ramadan City, 17-18 Nov 2018.
- Attending promoting your research capabilities-the modern knowledge cycle, Higher Technological Institute,10th of Ramadan City, 06 Aug 2019.
- Attending Effective teaching and learning strategies for higher education colleges and institutes,10th of Ramadan City, 4-5 Dec 2021.
- Attending Exam systems and student assessment for higher education colleges and institutes, Higher Technological Institute,10th of Ramadan City, 13-14 Dec 2021.
- Attending Training Program (Digital Education Technology), Girls Azhar Computer Center, Al- Azhar University, 31 June to 2 August.

Training Courses:

- C#.net [C# (Consol-Window Application) & ASP.net & ADO.net & MS SQL Server 2005], ICT center, Zagazig, Egypt,2008.
- Soft skills [Presentation Skills & Time Management & Project Management & Communication Skills & C.V and Interview Skills], ICT center, Zagazig, Egypt,2008.
- Computer and its applications in different sciences [windows, Microsoft Office, Internet, Latex, Spsswin]. General Administration for Graduate Studies and Research, Management training teaching assistants Center, Zagazig University, 3 August- 2015.

Teaching Experience:

Courses taught

- Differential Equations
- Numerical Methods
- Complex Analysis
- Calculus
- Linear Algebra
- Operations Research
- Probability and Statistics