Curriculum Vitae (CV)

Full Name

Yousria Abo-Elnaga Abd ELhameed (Yousria Abo-Elnaga)

Professor of Operation Research , Department OF Computer Science
Higher Technological Institute, tenth of Ramadan City.

Personal Information:

Academic Rank: Professor

Department: Computer Science

Specialization: Optimization

Position: Professor

Google Scholar: https://scholar.google.com/citations?user=OUpNt_IAAAAJ&hl=ar

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Education:

Degree	Discipline	Institution	Year
Ph.D.	**On Recent Approach for Solving Multiobjective Optimization**	Faculty of Engineering, **Ain Shames University, Cairo, Egypt**	2006
M.Sc.	**Interactive Approaches in Solving Large Scale Programming Problems**	Faculty of Engineering, **Ain Shames University, Cairo, Egypt**	2001
B.Sc.	**Electrical Engineering**	Faculty of Engineering, **Ain Shames University, Cairo, Egypt**	1994

Academic Experience:

Institution: Higher Technological Institute, 10th Of Ramadan city, Egypt.

Rank: Professor

Dates: 2022

Institution: Higher Technological Institute, 10th Of Ramadan city, Egypt.

Rank: **Associate Professor**

Dates: **2017**

Institution: Higher Technological Institute, 10th Of Ramadan city, Egypt.

Rank: **Assistant Professor**

Dates: **2008**

Institution: Higher Technological Institute, 10th Of Ramadan city, Egypt.

Rank: **Research Assistant (PhD student)**

Dates: **2001**

Institution: Higher Technological Institute, 10th Of Ramadan city, Egypt.

Rank: **Teaching Assistant**

Dates: **1994**

Research interests:

Mathematical Programming, Multi-Criteria Decision Making, Interactive Approaches, Fuzzy Mathematical Programming, Trust Region, Numerical Optimization, Game Programming, and Artificial Intelligent Approaches-

Publications:

1- **Yousria Abo-Elnaga**, and M.S. Osman "An Interactive Approach for Solving the non-differentiable nonlinear programming problems "Scientific Bulletin , Ain Shames University , Faculty of Engineering ,vol.40,No 3.Septemper30,2005.

2- **Yousria Abo-Elnaga** and M.S. Osman 'Stability of parametric   nonlinear programming problems'8th International Conference on Parametric Optimization (PARAOPT VIII) Nov 27th-Dec 3rd (2005)- Special volume of the journal "Optimization".

3- **Yousria Abo-Elnaga** , M.S. Osman "An Interactive Approach for solving Fuzzy Multiobjective programming Problems with a Parametric Study "8th International Conference on Parametric Optimization (PARAOPT VIII) Nov 27th-Dec 3rd (2005)- Special volume of the journal "Optimization".

4- **Yousria Abo-Elnaga** "Utilization of the Stability Notions in Solving the Inverse Optimization Problems, fourth Saudi sciences conference, contribution of science faculties in the development process of KSA, Al Madinah Almunawwarah 21-24,2010.

5- Bothina El-Sobki, and **Yousria Abo-Elnaga** Bothina El-Sobki" An Active Set Trust-Region Algorithm for Solving Constrained Multi-Objective Optimization Problems", Applied Mathematical Sciences, ,Vol.6,2012,no.33,1599-**1612**.

6- Bothina El-Sobki, and **Yousria Abo-Elnaga** "On Stability of Fuzzy Multi-objective optimization Problems Using Trust-Region Algorithm ", International Journal of Mathematics, Vol.6, 2012, No.28, 1367-1382.

7- Bothina El-Sobki ,**Yousria Abo-Elnaga** , , and Hanadi Zahed "Utilization of Trust Region Algorithm in Solving Reactive Power Compensation Problem",, Applied Mathematical Sciences, Vol. 6, 2012, no. 54, 2649 – 2667.

8- **Yousria Abo-Elnaga** , Bothina El-Sobki , ,and H'anadi Zahed "Trust Region Algorithm for Multi-objective Transportation, Assignment, and Transshipment Problems", Life Science Journal 2012,9(3). vol.6, 2012, no.28, 1368-1382.

9- **Yousria Abo-Elnaga** , Bothina El-Sobki" A Numerical Parametric Study OF Multi-Objective non-linear Programming Problems Under Fuzzy Environment Using a Trust-Region Algorithm" *Electronic Journal of Mathematical Analysis and Applications* Vol. 2(1) Jan. 2014, pp. 12-25.

10- **Yousria Abo-Elnaga**, M.A. Abo-Sinna , and, A.A. Mousa"An interactive dynamic approach based on hybrid swarm optimization for solving multiobjective programming problem with fuzzy parameters" Applied Mathematical Modeling, , Vol. 38(2013) pp. 2000-2014,

11- Bothina El-Sobki,and **Yousria Abo-Elnaga** , " Multi-objective economic Emission Load Dispatch Problem with Trust-region Strategy ", Electric Power Systems Research, **Vol.** 108 (2013) 254– 259.

12- Assma F. Elsayed and **Yousria Abo-Elnaga**(2014) " Comparison between Modified Variational Iteration Method and Computerized Fluent Ansys for Heat and Mass Transfer under an Infant Radiant Warmer**"** Jökull Journal **Vol. 64, No.6 (2014)pp. 333-353,**

13- **Yousria Abo-Elnaga (2014)** "A decomposition technique for Inconsistent 4Linear Systems of Equations "Jökull Journal, Vol. 64, No6. PP 453- 462.

14- **Yousria Abo-Elnaga** and A.A.Moussa **(2014)**" Inverse optimization for nonlinear programming problems "Wulfenia Journal, Vol. 21.

15- **Y. Abo Einaga ET. al,** " Procedure for Exact Solutions of Sti_ Ordinary Deferential Equations Systems**"** British Journal of Mathematics & Computer Science 4(23): 3252-3270,

16- **Yousria Abo-Elnaga**, Bothina El-Sobki and Layla Elnaser **(2015)**" Solving Warehouse Location problems by trust region algorithm "Sylwan Journal, Vol. 159, No.1, 225-37.

17- **Yousria Abo-Elnaga** , and Bothina El-Sobki **(2015)**" An Active Set Newton Interior Point Algorithm for Solving a Constraints Optimization Problem" Electronic journal of mathematical analysis and applications , Vol. 4, No.1, 225-37**.**

18- **B. El-Sobkya, Y. Abo-Elnaga**(2017)" Multi-objective optimal load flow problem with interior-point trust-region strategy", Electric Power Systems Research 148 (2017) 127–135.

19- **Y. Abo-Elnaga , B. EL-Sobkyy, and E. Hrebish** (2017)" A Hybrid Optimization Technique for Solving Multi-Objective Power Flow Problem" MITTEILUNGEN KLOSTERNEUBURG,

20- **Yousria Abo-Elnaga A. A. Mousa,and M. Higazy** (2018)," K-means cluster algorithm-based evolutionary approach for constrained multi-objective optimization", International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 6) pp. 3789-3809.

21- **Y. Abo-Elnaga and B. El-Sobky** (2018)," A penalty method with trust-region mechanism for nonlinear bi-level optimization problem" Journal of Computational and Applied Mathematics 340 (2018) 360–374.

22- **Y. Abo-Elnaga and B. El-Sobky**(2018) ," Generation of Pareto optimal solutions for multiobjective optimization problems via a reduced interior-point algorithm", Journal of Taibah University for Science, DOI: 10.1080/16583655.2018.1494422.

23- A. A. Mousa, M. Higazy and **Yousria Abo-Elnaga** (2018**),"** **K-means cluster algorithm-based evolutionary approach for constrained multi-objective optimization**", International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 6) pp. 3789-3809

24- B. El-sobky, **Y. Abo-elnaga**, A. Elsaid & A. Foda (2018)," Relaxed I-SHOT trust-region algorithm for solving multi-objective economic emission load dispatch problem" Journal of Taibah University for Science, doi.org/10.1080/16583655.2018.1503796.

25- **Yousria A. Aboelnaga** and Mai F. Zidan (2020)"MIN-MAX Solution for parametric continuous static games under roughness (PARAMETERS IN THE COST FUNCTION AND FEASIBLE REGION IS A ROUGH SET), URAL MATHEMATICAL JOURNAL, Vol. 6, No. 2, 2020, pp. 3–14.

26- **Y.A.Abonaga** , M.Shokry, and M.F.Zidan" Nash - Equilibrium solutions for Fuzzy Rough Continuous Static Games"(2020), International Journal of Emerging Trends in Science and Technology, Vol. 07,Issue10,Pages 6950-6965, ISSN 2348-9480.

27- **Yousria Abo-Elnaga,** M.A. El-Shorbagy **(2020)"** Multi-Sine Cosine Algorithm for Solving Nonlinear Bilevel Programming Problems" International Journal of Computational Intelligence Systems, DOI: 10.2991/ijcis.d.200411.001.

28- **Yousria Abo-Elnaga , and Sarah Nasr** (2020)," Modified   Evolutionary Algorithm and Chaotic Search for Bilevel Programming Problems" DOI: 10.3390/sym12050767

29-   Abd Allah A. Mousa, and **Yousria Abo- Elnaga** (2020)," **Stability of Solutions for Parametric Inverse Nonlinear Cost Transportation Problem**", Mathematics, 8, 2027;

30- M.A. Elsisy M.A. El Sayed, and **Y. Abo-Elnaga** (2020), "A **novel algorithm for generating   Pareto frontier of bi-level multi-objective rough nonlinear programming problem**" Ain Shams Engineering Journal Engineering Physics and Mathematics, doi.org/10.1016/j.asej.2020.11.006.

31- **Y. Abo-Elnaga** and S. Nasr (2021) "**K-means cluster " interactive algorithm-based evolutionary approach for solving bilevel multiobjective programming problems**" Alexandria Engineering Journal, doi.org/10.1016/j.aej.2021.04.098.

32- **Yousria A. Elnaga,** Moustafa K. El-sayed, Ali S. Shehab, (2021)" A Study on Nash Min-Max Hybrid Continuous Static Games Under Fuzzy Environment", Mathematical Sciences Letters, 10, No. 2, 59-69 (2021).

33- - Abd Elazeem M. Abd Elazeem, Abd Allah A Mousa, Mohammed A. El-Shorbagy, Sayed K Elagan and **Yousria Abo-Elnaga** (2021)"Detecting All Non- Dominated Points for Multi-ObjectiveMulti-Index Transportation Problems" Sustainability 2021,13, 1372.   doi.org/10.3390/su13031372.

34-   Bothina El-Sobky, **Yousria Abo-Elnaga**, Abd Allah A. Mousa , and Mohamed A. El-Shorbagy (2022)"Trust-Region Based Penalty Barrier Algorithm for Constrained Nonlinear Programming Problems: An Application of Design of Minimum Cost Canal Sections" Mathematics 2021, 9, 1551; **ISSN: 2227-7390** . **https://doi.org/10.3390/math9131551**

Certifications or Professional Registrations:

Honors and Awards:

SUPERVION OF MASTER THESIS

1- Hend A. Al-Huthiali "on stochastic linear programming problems and applications probability, Faculty of Science, Taibah University, Al-Madinah, King of Saudi Arabia, 2012.

2- Azezah,F.m. Alsaedi, " Utilization of Chi Square Tests in Educational area" , Faculty of Science, Taibah University, Al-Madinah, King of Saudi Arabia, 2013.

3- Thoria Elnamakani, "on Factors Affecting on Correlation Coefficient and Applications ", Faculty of Science, Taibah University, Al-Madinah, King of Saudi Arabia, 2014.

SUPERVION OF PHD THESIS

1- **Ebtisam Hrebish** , Faculty of Science, Alexandria university , Alexandria, Egypt (Phd2016).

2- **Sarah Naser,** faculty of Engineering, Sheben Elkom, Mnofia University (Phd2020).

3- **Mai Ziedan,** Faculty of Engineering, Tanta University, Tanta, Egypt (Phd2021).

4- **Ahmed Fonda,** Faculty of Engineering, Mansoura University, Mansoura, Egypt (Phd-Tell now).

ARBITRATION THESIS

1- Noha .O. Fallatah," Faculty of Science, Taibah University, Al-Madinah, King of Saudi Arabia, (M.S.C.2013).

2- Aminah F.M.Alsaedi" , Faculty of Science, Taibah University, Al-Madinah, King of Saudi Arabia, (M.S.C.2013).

3- Mostafa E. Hassan," Department of Mathematics and computer science, Faculty of Science, Alexandria University, (M.S.C 2022).

4- Sarah Mostafa Mohamed, " Department of Mathematics and computer science, Faculty of Science, Alexandria University,(M.S.C 2022).

ATTEND CONFERENCES

1- 8th International Conference on Parametric Optimization (PARAOPT VIII) Nov 27th-Dec 3rd -2005.

2- . Fourth Saudi Science Conference Contribution of Science Faculties in the Development Process of KSA Al-Madinah Al-Munawwarah, March 21 - 24, 2010.

3- The 5th Symposium of the Fractional Calculus and Applications Group, Faculty of Science- Alexandria University, July 3, 2013.

4- The 7th Symposium of the Fractional Calculus and Applications Group, Faculty of Science- Alexandria University, July 25, 2015.

5- The international conference for Mathematics and Applications, The Egyptian Mathematical Society, 28-30 Dec. 2017.

<div align="center">**Teaching Experience:**</div>

1- Workshop "Programs and Syllabuses Description sponsored by vice university presidency for Development & Quality Assurance in collaboration with National Commission for Academic Accreditation & Assessment", Taibah University, April, 27-28th, 2010, Al-Madinah Al-Munawarah, Kingdom of Saudi Arabia.

2- Workshop " Effective ways to assess students for Quality Assurance Unit", Faculty of science, Taibah University, April, 23th, 2012, Al-Madinah Al-Munawarah, Kingdom of Saudi Arabia.

3- Workshop "Writing and characterization report scheduled according to the National Assessment and Accreditation", Faculty of science, Taibah University, 20/5/1432, Al-Madinah Al-Munawarah, Kingdom of Saudi Arabia.

4- Workshop "Introduction to Quality and Accreditation", Faculty of science, Taibah University, 24/12/1432, Al-Madinah Al-Munawarah, Kingdom of Saudi Arabia.

5- Training course   " Exam systems and student assessment for colleges and institutes of higher education" The National Authority for Quality Assurance and Accreditation, 30-31 March 2021.

6- Training course   " Effective teaching and learning strategies for colleges and institutes of higher education" The National Authority for Quality Assurance and Accreditation, 30-31 August 2021.

7- Training course " Basics of Blended Education", Faculty Development Center, Cairo University, 31Jan.2022-1 Feb.2022.

Courses taught

	Course name	degree
1	Calculus I	Engineering programs (Egypt) Mathematics program (k.s.a) Computer science (k.s.a)
2	Calculus II	Engineering programs (Egypt) Mathematics program (k.s.a) Computer science (k.s.a)
3	Advanced calculus	Engineering programs (Egypt) Mathematics program (k.s.a) Computer science (k.s.a)
4	Numerical methods	Engineering programs (Egypt) Mathematics program (k.s.a)
5	Complex analysis	Engineering programs (Egypt) Mathematics program (k.s.a)
6	Statistics and probability	Engineering programs (Egypt) Mathematics program (k.s.a) Computer science (k.s.a)
7	Operation research	Computer science (Egypt) Mathematics program (k.s.a)
8	Artificial intelligent	Computer science (Egypt)

9	Game programming	Graduate studies
10	Dynamic programming	Graduate studies
11	Convex programming	Graduate studies
12	Nonlinear optimization	Graduate studies