



Dr. Mohamed Abdelhamid Helmy	
Position	Degree's Doctor of Philosophy in Science in Mathematics (pure mathematics) (2023)
Field of study	Math and computer science
Specialization	Pure Mathematics (Operations Research)
Current position	Lecturer - Planning Techniques Center, Institute of National Planning.
Career	• Lecturer - Planning Techniques Center, Institute of National Planning, Egypt - from 26/12/2023 to date. • Assistant Lecturer - Planning Techniques Center, Institute of National Planning, Egypt - from 18/5/2021 to 26/12/2023. • Assistant Lecturer - Higher Future Institute for Specialized Technological Studies from 2/12/2019 to 17/5/2021. • Assistant Lecturer in the Department of Basic Sciences, El-Gazeera High Institute for Engineering and Technology, Egypt from 22/7/2018 to 1/12/2019. • Teaching Assistant - in the Department of Basic Sciences, El-Gazeera High Institute for Engineering and Technology, Egypt from 14/2/2016 to 21/7/2018. ➤ Mathematics I. ➤ Mathematics II. ➤ Mathematics II. ➤ Statistics and Probability. ➤ Numerical techniques; Numerical Methods. • Teaching Assistant at Faculty of Science, Faculty of Computers & Information, And Faculty of Education, Helwan University (2014-2015). ➤ Discrete math. ➤ Introduction to computer programming. ➤ Geometry of space; solid geometry.
Education	• Degree's Doctor of Philosophy in Science in Mathematics (pure mathematics) (2023). (Helwan University – Faculty of science). • Diploma in Planning and Sustainable Development (National Planning Institute) (very good) (2021). • Master's degree in mathematics (2018). (Helwan University – Faculty of science). • Bachelor's degree in math and computer science (2014). (Menoufia University – Faculty of science). ➤ Major: (General) math. ➤ General Grade: Very good with honors (79.41%).



	- Completed participation in the Summer School for Systems Modeling held from 15 to 26 July 2024 in Laxenburg, Austria. - Passing a training course entitled: “Curricula for foreseeing the future” from January 28 to February 2, 2024, at the Arab Planning Institute in the State of Kuwait. - Passing a NAASAC training course entitled: “Introduction to Systems Thinking” from May 7 to May 31, 2023, at the National Planning Institute - Egypt. - Passing a training course offered by the University of Bergen, GEO-SD662 System Dynamics Modeling and Analysis, Spring 2023. - Obtained a certificate from ENAP and INP confirming that I successfully completed the International Training Program for Development Evaluation, which was held in Egypt from November 5 to 16, 2023, totaling 60 training hours. - Passing a training course entitled “Using Modeling in Development Planning” from December 4 to December 8, 2022, at the Arab Planning Institute in the State of Kuwait. - Participation in a two-day workshop entitled: “Science-to-Policy-Communication (SPC)” as part of the cooperation between the North Africa Center for the Application of Systems Analytics (NAASAC) at the National Planning Institute and The Nordic Africa Institute (NAI).
Experiences - Research activity	- Reviewer in journal of advances in mathematics and computer science. - Reviewer in Journal of Intelligent & Fuzzy Systems. - Participation in the control work at the Higher Future Institute for Specialized Technological Studies. - Participation in the control work at Al-Jazeera Higher Institute for Engineering and Technology. - Participation in quality work at Al-Jazeera Higher Institute for Engineering and Technology. - Member of the Electronic Portal Follow-up Committee, Institute of National Planning. - Member of the Knowledge Follow-up Committee and the Institute of National Planning. - Member of the Control Committee of the Institute of National Planning. - Member of the Basic Economic Unit of the Institute of National Planning. - Member of the Quality Assurance and Accreditation Unit of the Institute of National Planning. - Participation in community service programs through summer training for university students.
Working Papers	[1] Emam, O. E., Fathy, E., & Helmy, M. A. (2016). Fully Fuzzy Multi-Level Linear Programming Problem. International Journal of Computer Applications, 155(7) 0975 – 8887.



	[2] Emam, O. E., Fathy, E., & Helmy, M. A. (2017) An Interactive Model for Fully Fuzzy Multi-level Linear Programming Problem based on Multi-objective Linear Programming Technique. <i>Journal of Advances in Mathematics and Computer Science</i>, 23(4) 2231-0851. [3] Said Tantawy, Emam, O. E., Fathy, E., & Helmy, M. A. (2018). On Fuzzy Multi-level Multi-objective Integer Linear Programming Problem. Helwan University. [4] Ammar, E., Fathy, E., Helmy, M.A. (2022). On solving the multilevel rough interval linear programming problem, <i>Journal of Intelligent & Fuzzy Systems</i>. 42(4), 3011-3028. [5] Ammar, E., Fathy, E., Helmy, M.A. (2023). Three different optimization techniques for solving the fully rough interval multi-level linear programming problem, <i>Journal of Intelligent & Fuzzy Systems</i>. 45(2), 2593-2610. [6] Ammar, E., Fathy, E., Helmy, M.A. (2022). An interactive model for fully intuitionistic fuzzy multi-level linear programming problem, <i>The International Conference on Mathematics, Statistics & Information Technology (3rd ICMSIT 2022)</i>. [7] Ammar, E., Fathy, E., Helmy, M.A. (2023). Fully intuitionistic fuzzy multi-level linear fractional programming problem, <i>Alexandria Engineering Journal</i>. 77, 684-694. [8] Ammar, E., Fathy, E., Helmy, M.A. (2023). The study of optimality in uncertainty multi-level problems. [9] Khashaba, M., Al-Rayes, A., Awad, M., Ibrahim, A., Helmy, M. A., & Al-Dessouki, A. (2024). <i>Systems thinking to support Arab sustainable development policies: In light of global experiences</i>. ISBN: 978-977-8848-13-7. Legal Deposit No.: 2024/31071. [10] Helmy, M. A. (Co-author) (2022). The Role of the Digital Economy in the Trade and Industry of Services in Egypt. <i>Planning for Development Issues Series</i>, Issue No. 328. Cairo: Institute of National Planning. [11] Helmy, M. A., Ammar, E., & Fathy, E. (2025). Three Optimization Methods for Solving the Fully Rough Interval Multilevel Solid Transportation Problem. <i>Journal of Intelligent & Fuzzy Systems</i>, 18758967251388254.
Work In Progress	• Operating Systems. • Microsoft office. • I C D L. • WinQSB. • LINGO.
Research Interests	• Mathematics. • operations research. • Mathematical programming. • Mathematical modeling (optimization models). • Systems Modeling.
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