

**ELSAYED ELSAYED METWALLI BADR, Ph.D.**

---

Associate Professor of Computer Science, Faculty of Computers & informatics,  
Benha University

Benha 13518 – Al-Kalyoubia – EGYPT

Date of Birth : 02-12-1972

Cell: +2 01147413054 (Egypt)

E-mail: [badrgraph@gmail.com](mailto:badrgraph@gmail.com) , [alsayed.badr@fci.bu.edu.eg](mailto:alsayed.badr@fci.bu.edu.eg)

Home page : <http://www.bu.edu.eg/staff/alsayedbadr7>

---

**BIO**

---

Elsayed Badr is an Associate professor of computer science at Benha Faculty of Computers & Informatics; Benha University in Egypt. He received his Ph.D. degree in Parallel Algorithms (mainly in parallel graph algorithms) in 2006 from the University of Macedonia; Greece. Dr. Badr holds a Certificate of Quality Assurance from the university of Benha, Egypt and M.Sc. in graph theory and graph algorithms applications, B.Sc. in Mathematics from Benha faculty of science in Egypt. In addition to over 8 years of teaching and academic experiences In Egypt and Greece, Dr. Badr has accumulated broad practical experiences and developed a solid set of skills in algorithms, graph labeling, Cryptography and linear programming.

---

**EDUCATION**

---

**1994 B. Sc.** Degree in Mathematics, Faculty of Science, Benha University,  
Benha, Egypt.

**2000 M. Sc.** Degree in Pure Mathematics, Faculty of science, Benha University  
Benha, Egypt.

**2006 Ph.D.** in Applied Informatics, Department of Applied Informatics,  
Macedonia University, Thessaloniki, Greece.

---

**PROFESSIONAL EXPERIENCE**

---

**1994-2000** Demonstrator, Mathematics & Computer Science Department  
Faculty of science, Benha University, Benha, Egypt.

**2000-2006** Assistance Lecturer, Mathematics & Computer Science  
Department Faculty of Science, Benha University, Benha, Egypt.

**2002-2006** Young Researcher, Macedonia University, Applied Informatics  
Department, Thessaloniki, Greece.

---

- 2006-2007** Lecturer, Faculty of computer science &informatics, Department of scientific computing, Benha University, Benha, Egypt.
- 2007-2011** Assist. Prof. , Computer Science Department, Qassim University, Qassim, Saudi Arabia.
- 2011-2-014** Lecturer, Faculty of computer science &informatics, Department of scientific computing, Benha University, Benha, Egypt
- 2014-Now** Assist. Prof., Faculty of computer science &informatics, Department of scientific computing, Benha University, Benha, Egypt

## **COURSES THOUGHT**

---

### **A) Undergraduate**

- Parallel Programming (MPI) ,Introduction to computer science ,
- Linear Programming
- Operations research
- Mathematical Programming
- Image Processing
- Introduction to the Analysis of Algorithms
- Graph Theory
- Numerical Analysis
- Linear Algebra
- Combinatorics
- Discrete Mathematics
- Language Programming I ( C , C++ , Fortran and Pascal )

### **B) Graduate**

- Distributed Systems
- Design and Analysis of Algorithms
- Image processing

## **FIELDS OF INTEREST**

---

- Linear Programming
- Parallel Programming (MPI).
- Combinatorial Optimization
- Design and Analysis of Algorithms
- Visualization Algorithms
- Fuzzy Theory
- Graph Theory

## **Information Technology Skills**

---

- MATLAB COURSE
- C Language
- C++ Language
- Visual Basic
- Fortran Language
- Pascal Language
- Office XP
- Windows, Unix, Linux
- OTHERS .....

## **LANGUAGES**

---

Arabic, English, Greek

---

## **SCIENTIFIC ACTIVITES**

---

- 17<sup>th</sup> Conference of Hellenic Operational Research Society (HELORS), Greece.
  - 1<sup>st</sup> International Conference on Mathematics and Statistics, Sharjah, U.A.E.
  - 1<sup>th</sup> International Conference Computer Science From Algorithms To Applications, Egypt.
  - 18<sup>th</sup> Conference of Hellenic Operartional Research Society (HELORS), Greece.
  - 3<sup>rd</sup> International Computer Engineering Conference. Cairo, Egypt .
  - 5<sup>th</sup> International Conference of Mathematics and Engineering physics (ICMEP-5), Egypt.
  - 2<sup>nd</sup> International Conference on Mathematics and Information Science, Sohag, Egypt.
-

## ***Publications:***

---

### **A. Dissertation and Thesis**

**A.1** El-Said Badr, ***Parallel Programming Algorithms for Linear programming Problems***, Ph. D. Thesis Applied Informatics Department, Macedonia University, Thessaloniki, Greece.

**A. 2** El-Said Badr, ***On the Partially Ordered Sets and its Applications***, M. Sc. Thesis, Mathematics & Computer Science Department, Faculty of Science, Benha University, 2000.

### **B. Publications:**

#### **International Journals**

**B1.** E. M. Badr, M. I. Moussa & K. Kathiresan (2011): ***Crown graphs and subdivision of ladders are odd graceful***, International Journal of Computer Mathematics, 88:17, 3570- 3576.

**B2.** M. I. Moussa and E. M. Badr (2012): ***A Computational Study for the Graph-Theoretic Version of the Union-Closed Sets Conjecture***, International Journal of Computer Applications, Volume 50 – No.12, July 2012.

**B3.** E. M. Badr and M. I. Moussa (2012): **ODD GRACEFUL LABELINGS OF CYCLIC SNAKES**, Electronic Journal of Nonlinear Analysis and Application, Vol. 6, 115-119.

**B4.** E. M. Badr (2012): On the Odd Gracefulness of Cyclic Snakes With Pendant Edges , ***Journal on Applications of Graph Theory in Wireless Ad hoc Networks and Sensor Networks (GRAPH-HOC)***, 4(4), 1 - 9.

**B5.** E. M. Badr (2012): Some Computational Results on MPI Parallel Implementation of Derived Subgraph Algorithm, ***International Journal of Applied Information Systems (IJ AIS) – ISSN : 2249-0868, Vol.4, No. 8, pp.1-6.***

- B6.** E. M. Badr (2012): **Odd Graceful Labeling of the revised friendship graphs**, International Journal of Applications , Vol.65, No.11, 1-6.
- B7.** E. M. Badr (2013): Odd Graceful Labeling for the Subdivision of Double Triangles Graphs International Journal of Soft Computing, Mathematics and Control (IJSCMC), Vol.2, No.2, 1-8.
- B8.** M. I. Moussa and E. M. Badr (2013 ) : A NEW PARALLEL ALGORITHM FOR COMPUTING MINIMUM SPANNING TREE, International Journal of Soft Computing, Mathematics and Control (IJSCMC), Vol.2, No.1, 1-8.
- B9.** E M Badr(2014): On Odd Graceful Labeling of the Generalization of Cyclic Snakes. *International Journal of Computer Applications* 106(12):26-32, November 2014
- B10.** R. M. Farouk, E. M. Badr and M. A. SayedElahl (2014) “Recognition of CDNA Microarray Image using Feedforward Artificial Neural Network” International Journal of Artificial Intelligence & Applications (IJAIA)
- B11.** E M Badr (2015) “On Graceful Labeling of the Generalization of Cyclic Snakes” Journal of Discrete Mathematical Sciences and Cryptography
- B12.** E. M. Badr, B. Mohamed (2015) “ Enumeration of the number of spanning trees for the subdivision technique of five new classes of graphs” Applied Mathematical Sciences,
- B13.** M.Moussa and E.M.BADR (2016) “L ADDER AND SUBDIVISION OF LADDER GRAPHS WITH PENDANT EDGES ARE ODD RACEFUL” International Journal on Applications of Graph Theory in Wireless Ad hoc Networks and Sensor Networks(GRAPH-HOC)

### **C. Publications:**

#### **International Conference**

**B.1** Badr, E., Paparrizos, K., Samaras, N., Baloukas, T. (2005) "***A web-based solver for the single source shortest path problem***".18th Conference of Hellenic Operational Research Society (HELORS).

**C.2** Badr, E., Paparrizos, K., Samaras, N., Sifaleras, A. (2005) . ***On the basis inverse of the exterior point simplex algorithm***. In Proc. of the 17th National Conference of Hellenic Operational Research Society (HELORS), 16-18, Rio, Greece, pp. 677-687, 2005.

**C.3** Badr, E., Moussa M., Paparrizos, K., Samaras, N. (2006) "***Some Computational results on MPI Parallel Implementation of Dense Simplex Method***". In Proc. of World Academy of Science, Engineering and Technology (PWASET), Vol. 23, pp. 39-42, (presented in the Seventeenth International Conference on Computer & Information Science and Engineering ( CISE 2006), 8-10 December, Cairo, Egypt, 2006.

**C.4** Badr, E., Paparrizos, K., Samaras, N., Baloukas, T. (2006)" ***Some computational results on the efficiency of an exterior point algorithm***", In Proc. of the 18th National Conference of Hellenic Operational Research Society (HELORS).

**C.5** E. M. Badr (2009), ***Odd Graceful Graphs With Pendant Edges***, 1<sup>th</sup>International Conference Computer Science From Algorithms To Applications, Egypt.

**C.6** M. I.Moussa and E. M. Badr (2009), ***Odd Graceful Labelings Of Crown Graphs***, 1<sup>th</sup>International Conference Computer Science From Algorithms To Applications, Egypt.

**C.7** E. M. Badr and M. I.Moussa (2010) ,**Odd Graceful Labelings Of Cyclic Snakes**, 1<sup>st</sup> International Conference on Mathematics and Statistics, Sharjah, U.A.E.

**C.8** E. M. Badr and M. I.Moussa (2010) , **On The Derived Subgraphs Conjecture**,1<sup>st</sup> International Conference on Mathematics and Statistics, Sharjah, U.A.E.

**C.9** Badr and M. I.Moussa (2010) " **On Jump- Critical Ordered Sets** " 5<sup>th</sup> International Conference of Mathematics and Engineering physics (ICMEP-5), Egypt.

**C.10** E. M. Badr (2011), A Parallel Computation of the Graph-Theoretic Version of the Union-Closed Sets Conjecture, 2<sup>nd</sup> International Conference on Mathematics and Information Science, Sohag, Egypt.

**C.11** E. M. Badr (2011), **Odd Graceful Labelings of Cyclic Snakes With Pendant Edges**, 2<sup>nd</sup> International Conference on Mathematics and Information Science, Sohag, Egypt.

**C.12.** E. M. Badr (2014) "On Fuzzy Exterior Point Simplex Method for Solving Linear Programming Problems with Fuzzy Numbers",7th International Conference on Mathematics and Engineering Physics (ICMEP-7),Military Technical College,Kobry Elkobbah, Cairo, Egypt, May 29-31,2014.

**C13.** E. M. Badr and B. Mohamed (2015) ,"Generating Recursive Formulas for the Number of Spanning Trees in Cyclic Snakes Networks", 4nd International Conference on Mathematics and Information Science, 5-7Feb.2015,Zewail City of Science and Technology, Cairo, Egypt.

---

## **D. Technical Report**

---

D. 1 Badr, El-Said, (2006), " **How to Write a Technical Article** " Technical Report, Mathematics & Computer Science Department Benha University. ( in Arabic)

---

## SCIENTIFIC VISITS

---

- Greece ( Athens – Thessaloniki – Kozani .....)
  - Turkey ( Estimable - ....)
  - Saudi Arabia (Al-Madina)
  - U.A.E. Sharjah
- 

## GRANTS

---

2002 – 2006    Scholarship from STATE SCHOLARSHIP FOUNDATION  
Greece , For my Ph.D. Degree.

---

## Supervision of M. Sc & Ph. D

### **M. Sc:**

- 1- An Intelligent System for Pattern Recognition with neural network and their applications on images " *with student* " Mohamed Abd-ellatef Mohey"
  - 2- " On the number of spanning trees for cyclic snakes graphs" with student" Bassma Mohamed
- 

### **Books:**

- 
- ***Introduction To Matlab under publication***
  - ***Introduction to Computer Science under publication***
-



### **References:**

- 1- Prof. N. Samaras - Associate Professor - Applied Informatics Department, Macedonia University, Thessaloniki, Greece ( tel : 2310-891866 ) ,  
email: [samaras @ uom.gr](mailto:samaras@uom.gr)
- 2- Prof. Dr. Islam sayed ahmed , Associate Professor , Egypt- Benha - Benha University- faculty of Science- Mathematics Dep. ,  
email: [moneim97@yahoo.com](mailto:moneim97@yahoo.com) tel : 00966598181751
- 3- Prof.Dr.Mahmoud Moussa , Associate Professor , Egypt - Benha - Benha University - Faculty of Computer Science- Department of Computer Science. E-mail: [moussa\\_6060@yahoo.com](mailto:moussa_6060@yahoo.com). Tel: 002-01118469392

### **Signature**

***El-said badr***