Dr. Mahmoud Salaheldin Hassan Elsayed

(1) Personal Information:

Date of Birth: 13/8/1977.

Marital Status: Married.

Military Status: Exempted, and not required for Military.

Nationality: Egyptian.

Mobile: 00201010517607 (Egypt), 00966553545988 (KSA).

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Scopus Id: 57218488378

Web of Science Id: GYD-8933-2022

Google Scholar:
https://scholar.google.com/citations?user=OhGQHF4AAAAJ&hl=en

(2) Educational Information:

- Mahmoud is holding the **Ph.D. Degree** in *Computer Science*- Department of Mathematics and computer Science- Faculty of Science- Menoufia University since (**May 2021**). **Thesis-Title:** *"Solving Deadlock Problems within Parallel Multi-Unit Resources Using High Classes of Petri Nets"*. **Supervisor:** *Prof. Dr. Passent Mohammed El-Kafrawy* (Professor of Computer Science- Faculty of Science-Menoufia University). **Examiners Committee:** *Prof. Dr. Zhiwu Li* (Professor with the Department of

Automation, School of Electro-Mechanical Engineering-Xidian University-China), *Prof. Dr. Elsayed Abdelhameed Sallam* (Professor of Computers and Automatic Control Engineering, Faculty of Engineering, Tanta University), *Prof. Dr. Mohamed Amin Abdelwahed* (Professor of Computer Science-Faculty of Science- Menoufia University), and *Prof. Dr. Passent Mohammed El-Kafrawy* (Professor of Computer Science- Faculty of Science-Menoufia University).

- Mahmoud has got his **Master Degree** in *Computer Science* (*CS*)-Department of Mathematics and Computer Science- Faculty of Science-Menoufia University- Egypt, **August 2005**.

- Mahmoud has got his Public Bachelor Certificate in *Mathematics and Computer Science*- Department of Mathematics and computer Science-Faculty of Science- Menoufia University- Egypt, with a Cumulative Grade: **Very Good**, **May 2000**.

(3) <u>Experiences:</u>

- **(2000- 2001)** System Analyst, Information Technology Center, *Menoufia University*- Egypt.

- **(2001- Present)** Lecturer of Computer Science, *Workers University*- Egypt.

- **(2006- 2008)** Lecturer of Computer Science, *Teachers College*- Arar- KSA.

- **(2008- Present)** Lecturer of Computer Science, *Department of Computer Science- Faculty of Computing and Information Technology- Northern Border University*- Rafha- KSA.

(4) <u>Language and Skills:</u>

*English***:** Mahmoud has the required skills in talking, communicating, writing and teaching in English. He got the TOEFL (T-ELPP) Certificate from *Menoufia University*.

- ### <u>Skills:</u>

1. Mahmoud has the required skills in the scientific research activities regarding writing and publishing scientific papers in Computer Science for International Journals and Conferences.
2. He has the required skills in the activities of Exams-Control, Academic Advising, and Quality Assurance Improvements program.

3. Mahmoud has several skills regarding supervising on preparing Graduation Projects in Computer Science and Information System.

4. He has skills in Database designing using SQL, PL-SQL, and Oracle Developer and Designer.

5. He has programming skills in C, C++, and JAVA languages.

- **Honors and awards**

  - Mahmoud has got Excellent paper award in the IIER (International Institute of Engineers and Researchers) conference, 2016.

(5) Service Activities

- Mahmoud is a Member of Academic Affairs Committee in *Faculty of Computing and Information Technology- Northern Border University*-Rafha- KSA.

- He is a Member of the Scholarship Affairs Committee in *Faculty of Computing and Information Technology- Northern Border University*-Rafha- KSA.

- He is a Member of the Student Disciplinary Committee in *Faculty of Computing and Information Technology- Northern Border University*-Rafha- KSA.

- He is a Member of the Academic Advising Committee in *Faculty of Computing and Information Technology- Northern Border University*-Rafha- KSA.

- He is a Member of the Academic Advising Unit in *Faculty of Computing and Information Technology- Northern Border University*- Rafha- KSA.

- He is Advisor for many graduate student projects.

(6) **<u>Courses Interests in Computer Science:</u>**

Mahmoud Lecturer and instructor for the following Courses:
1. Programming Languages (C, C++, JAVA).
2. Data Structures.
3. Database.
4. Computer Architecture and Organization.
5. Analysis and Design of Algorithms.
6. Algorithms and Data Structure.
7. Operating System.
8. Computer Networks and Distributed Systems.
9. Advanced Database.
10. Compiler Design.
11. Structure& Object- Oriented Programming.
12. Discreet Mathematics and graph theory.
13. Logic Design.
14. Theory of Computation.
15. Software Engineering.

(7) **<u>Publications:</u>**

1. M. S. Elsayed, K. Kefi and Z. Li, "An Optimal Transition-Based Recovery Policy for Controlling Deadlock Within Flexible Manufacturing Systems Using Graph Technique," *in IEEE Access*, vol. 11, pp. 51723-51739, 2023, doi: 10.1109/ACCESS.2023.3266456.

2. M. S. Elsayed, G. Liu, A. M. Mostafa, A. A. Alnuaim and P. E. Kafrawy, "Fault-Recovery and Robust Deadlock Control of Reconfigurable Multi-Unit Resource Allocation Systems Using Siphons," *in IEEE Access*, vol. 9, pp. 67942-67956, 2021, doi: 10.1109/ACCESS.2021.3073639.

3. M. Salaheldin Elsayed, P. El Kafrawy and N. Wu, "Modeling and Deadlock Control of Reconfigurable Multi-Unit Resource Systems," *in*

IEEE Access, vol. 8, pp. 133605-133621, 2020, doi: 10.1109/ACCESS.2020.3010237.

4. Passent Elkafrawy, Mahmoud Salah, and Mohammed Nasef, "Using WS³PR Petri Net for Modeling, Performance Evaluation, And Deadlock-Free Design of Multi-Unit Resource Systems", *International Journal of Advances in Science, Engineering and Technology (IJASEAT)*, Vol-5, Iss-1, SP1. Issue- 2 Feb-2017, ISSN(P):2321 –8991, ISSN(e):2321 –9009.

5. Passent Elkafrawy, Mahmoud Salah, and Mohammed Nasef, "Using WS³PR Petri Net for Modeling, Performance Evaluation, And Deadlock-Free Design of Multi-Unit Resource Systems", *Proceedings of 56th ISERD International Conference*, Mecca, Saudi Arabia, 16th-17th December 2016, ISBN: 978-93-86291-59-2.

6. H. A. Ali, T. El Dnaf and M. Salah, "A proposed algorithm for solving deadlock detection in distributed database systems," *Proceedings of International Conference on Electrical, Electronic and Computer Engineering,* 2004. ICEEC '04., 2004, pp. 144-148, doi: 10.1109/ICEEC.2004.1374404.

7. H. A. Ali, T. El Dnaf and M. Salah, "Strategy for Solving Deadlock Detection and Resolving in DDBS Environment," *Proceedings of 2nd International Conference on Computer Science and its Applications* (ICCSA-2004) June 28-30, 2004 San Diego, California, USA.

(8) Books:

- Mahmoud Hassan, "Deadlock Analysis and Resolution in Distributed Systems" ISBN-13: 978-3-330-03980-3 with the LAP LAMBERT Academic Publishing, Germany, 2017.