



## Curriculum Vitae

**Name:** Ahmed Fouad Abdel Rahman Ali

**Title:** Dean of the Faculty of Information Technology  
and Computer Science, Sinai University-Kantra

**Department:** Information Technology

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### **A) Academic Qualifications:**

- Bachelor's degree in Computer Science      University: Assiut      Year 1998
- Master's in Computer Science      University: Assiut      Year:2006
- Ph. D in Computer Science      University: Assiut      Year: 2011

**Other Qualifications:** Post-Doctoral Fellow Department of Mathematics and Statistics, Thompson  
Rivers University, Kamloops, British Columbia, Canada.

### **B) Academic promotions:**

- Lecturer, Department of Computer Science, University of Suez Canal, Ismailia, Egypt.  
Date: July 2011- September 2016.
- Assistant Professor, Department of Computer Science, University of Suez Canal, Ismailia, Egypt.  
Date: September 2016 - April 2022.
- Professor, Department of Computer Science, University of Suez Canal, Ismailia, Egypt.  
Date: April 2022 – Till Now.

### C) Scientific Merit:

- Google Scholar: <https://scholar.google.com/citations?user=9Lk89CsAAAAJ>
- Scopes ID: **58592779800**
- Citations: **1021**                      h-index: **17**                      i10-index: **35**
- Orcid –N: **0000-0003-1479-7148**

### D) Academic Administrative Experiences:

- Dean. Faculty of Information Technology & Computer Science - Kantara branch – Sinai University, Egypt                      September 2023 – Till now
- Vice Dean for Education and Student Affairs, Faculty of Information Technology, Miser University of Science and Technology (MUST), Egypt.                      September 2022- August 2023
- Vice Dean for Education and Student Affairs at Egyptian Chinese College for Applied Technology, Suez Canal University, Egypt                      May 2018 – Feb 2022
- Chair of the Department of Computer Science, Faculty of Computers and Informatics, Suez Canal University, Egypt.                      August 2017 - May 2018
- Coordination of the Computer Science subject in Suez Canal University.                      September 2016- August 2022
- Director of student academic support unit in Faculty of Computers and Informatics- Suez Canal University- Ismaillia- Egypt.                      September 2016- August 2018
- Director of digital library unit - Suez Canal University- Ismailia – Egypt.                      September 2012- August 2013

### E) Scientific Activities

#### 1: Membership of Professional Organizations and Scientific Societies

None

#### 2: Training Courses/workshops:

<b>Course / workshop</b>	<b>Date</b>
Researchers connect course	16-2-2016
Intelligent System 's Workshop	7-5-2016

Teambuilding for Team members (DAAD)	11-5-2016
The 2nd round of the Delphi survey workshop on the future of energy in Egypt	5-8-2017

### **3: Conferences, Seminars and Workshops:**

- The 2nd International Multi-Conference on Artificial Intelligence Technology Faculty of Information Science and Technology, National University of Malaysia, (MCAIT), Malaysia, 2013.
- The 2nd International Conference on Advanced Machine Learning Technologies and Applications (AMLTA), Cairo, Egypt, 2014.
- First International Afro-European Conference for Industrial Advancement - (AECIA), November 17 – November 19, Addis Ababa, Ethiopia, 2014.
- Second International Afro-European Conference for Industrial Advancement - (AECIA), September 9-11 , 2015, Villejuif, France, 2015.

### **4: Teaching Scopes:**

- Natural Language Processing (NLP).
- The Design and Analysis of Algorithms.
- Artificial Intelligence.
- Data Mining.
- Web Programming.
- Data structure.
- Introduction to Database.
- Artificial Neural Network.
- System Analysis and Design.
- Introduction to Computer Science.

### **5: Scientific supervision number:**

PhD's Degree = 4.

Master's degree = 8.

### **6: Awards and Certificates of Appreciation:**

Suez Canal University certificates appreciation from 2011-2023

**7: Peer reviewing of scientific research/ Projects:**

**8: Scientific Mission:**

Post doctoral fellow, Department of Mathematics and Statistics, Thompson Rivers University, Kamloops, British Columbia, Canada. Dr. Tawhid's NSER-C grants.

**9: patency:**

None

**10: Consultancy Experience:**

**11: Other Activities:**

**F) Scientific Publications:**

Last 10 year of published Scientific Papers

**-International journals:**

- J.1. Awad AA, **Ali AF**, Gaber T (2023) "An improved long short term memory network for intrusion detection". PLoS ONE 18(8): e0284795. <https://doi.org/10.1371/journal.pone.0284795>.
- J.2. Elashmawi, W. H., **Ali, A. F.**, & Ali, A. (2023). "A modified manta ray foraging algorithm for edge server placement in mobile edge computing". International Journal of Information Technology & Decision Making.
- J.3. Atta, Eman A.; **Ali, Ahmed F.**; Elshamy, Ahmed A. (2023): A modified weighted chimp optimization algorithm for training feed-forward neural network. PLOS ONE. Collection. <https://doi.org/10.1371/journal.pone.0282514>.
- J.4. Moharam, R., **Ali, A. F.**, Morsy, E., Ahmed, M. A., & Mostafa, M. S. M. (2022). "A Discrete Chimp Optimization Algorithm for Minimizing Tardy/Lost Penalties on a Single Machine Scheduling Problem". IEEE Access.
- J.5. Raslan, A. F., **Ali, A. F.**, Darwish, A., & El-Sherbiny, H. M. (2021). "An Improved Sunflower Optimization Algorithm for Cluster Head Selection in the Internet of Things". IEEE Access.
- J.6. El-Ashmawi, W.H., **Ali, A.F.** & Slowik, A. "Hybrid crow search and uniform crossover algorithm-based clustering for top-N recommendation system". Neural Comput & Applic (2020). <https://doi.org/10.1007/s00521-020-05482-6>, Springer.

- J.7. El-Ashmawi, W. H., & **Ali, A. F.** (2020). "A modified salp swarm algorithm for task assignment problem". *Applied Soft Computing*, 106445, Elsevier.
- J.8. El-Ashmawi, W. H., **Ali, A. F.**, & Slowik, A. (2020). "An improved Jaya algorithm with a modified swap operator for solving team formation problem". *Soft Computing*. <https://doi:10.1007/s00500-020-04965-x>, Springer.
- J.9. Tawhid, M. A., & **Ali, A. F.** (2019). "Multidirectional harmony search algorithm for solving integer programming and minimax problems". *International Journal of Bio-Inspired Computation*, 13(3), 141-158.
- J.10. El-Ashmawi, W.H. and **Ali, A.F.** (2019) "An enhanced Jaya algorithm for solving nurse scheduling problem", *Int. J. Grid and Utility Computing*, Vol. 10, No. 5, pp.439–447.
- J.11. **Ali, A. F.**, & Tawhid, M. A. (2018). "Solving Integer Programming Problems by Hybrid Bat Algorithm and Direct Search Method". *Trends in Artificial Intelligence*, 2(1).
- J.12. Tawhid, M. A., & **Ali, A. F.** (2018). "An effective hybrid firefly algorithm with the cuckoo search for engineering optimization problems". *Mathematical Foundations of Computing*, 1(4), 349-368.
- J.13. Tawhid, M. A., & **Ali, A. F.** (2018). "Multidirectional Grey Wolf Optimizer Algorithm for Solving Global Optimization Problems". *International Journal of Computational Intelligence and Applications*, 1850022.
- J.14. El-Ashmawi, Walaa H., **Ahmed F. Ali**, and Mohamed A. Tawhid. "An improved particle swarm optimization with a new swap operator for team formation problem." *Journal of Industrial Engineering International* (2018): 1-19.
- J.15. **Ali, A. F.**, & Tawhid, M. A. (2018). " Hybrid bat algorithm and direct search methods for solving minimax problems". *International Journal of Hybrid Intelligent Systems*, (Preprint), 1-15.
- J.16. Tawhid, M. A., & **Ali, A. F.** (2017). "A simplex grey wolf optimizer for solving integer programming and minimax problems". *Numerical Algebra, Control & Optimization*, 7(3), 301-323.
- J.17. Mohamed, H. M., **Ali, A. F.**, & Altaweel, G. S. (2017). "A Hybrid Curvelet Transform and Genetic Algorithm for Image Steganography". *INTERNATIONAL JOURNAL of Advanced Computer Science and Applications*, 8(8), 328-336.
- J.18. Tawhid, M. A., & **Ali, A. F.**, "A Hybrid grey wolf optimizer and genetic algorithm for minimizing potential energy function". *Memetic Computing*, 1-13, 2017, Springer.

- J.19. Tawhid, Mohamed A., and **Ahmed F. Ali**. "Multi-directional bat algorithm for solving unconstrained optimization problems." *OPSEARCH*: 1-22, 2017, Springer.
- J.20. **Ali AF**, Tawhid MA, "A hybrid particle swarm optimization and genetic algorithm with population partitioning for large scale optimization problems", *Ain Shams Eng J* (2016), <http://dx.doi.org/10.1016/j.asej.2016.07.008>. Elsevier.
- J.21. **Ali, A. F.**, & Tawhid, M. A. (2016). "Direct Gravitational Search Algorithm for Global Optimization Problems". *East Asian Journal on Applied Mathematics*, 6(03), 290-313.
- J.22. Tawhid, Mohamed A., and **Ahmed F. Ali**. "A hybrid social spider optimization and genetic algorithm for minimizing molecular potential energy function. " *Soft Computing* (2016): 1-16, Springer.
- J.23. Mohamed A. Tawhid, **Ahmed F. Ali**, " Direct Search Firefly Algorithm for Solving Global Optimization Problems". *Applied Mathematics & Information Sciences*, 841-860, 2016.
- J.24. **Ali, Ahmed F.**, and Mohamed A. Tawhid, "A hybrid cuckoo search algorithm with Nelder Mead method for solving global optimization problems." *SpringerPlus* 5.1 (2016): 1-22.
- J.25. Tawhid, Mohamed A., and **Ahmed F. Ali**. "Simplex particle swarm optimization with arithmetical crossover for solving global optimization problems. " *OPSEARCH* (2016): 1-36, Springer.
- J.26. **A. F. Ali** and M. A. Tawhid, "A Hybrid PSO and DE Algorithm for Solving Engineering Optimization Problems," *Applied Mathematics & Information Sciences*, vol. 10, no. 2, pp. 431–449, Mar. 2016.
- J.27. M. A. Tawhid and **A. F. Ali**, "A simplex social spider algorithm for solving integer programming and minimax problems," *Memetic Computing*, Feb. 2016, Springer.
- J.28. **A. F. Ali** and M. A. Tawhid. " Hybrid-simulated annealing and pattern search method for solving minimax and integer programming problems", *Pacific Journal of Optimization*, 12(1), pp. 151-184, 2016.
- J.29. **Ali, Ahmed F.**, and Mohamed A. Tawhid. "Hybrid Particle Swarm Optimization with a Modified Arithmetical Crossover for Solving Unconstrained Optimization Problems." *INFOR: Information Systems and Operational Research* 53.3 (2015): 125-141.
- J.30. **Ali, Ahmed Fouad**, and Nashwa Nageh Ahmed. "Differential Evolution Algorithm with Space Partitioning for Large-Scale Optimization Problems.", *I.J. Intelligent Systems and Applications*, 11, 49-59, 2015.

- J.31. **Ahmed Fouad Ali**, A Memetic Backtracking Search Optimization Algorithm for Economic Dispatch Problem, Egyptian computer science journal, Vol 39, no 2, 2015.
- J.32. **Ahmed Fouad Ali**, A Hybrid Gravitational Search with Le´vy Flight for Global Numerical Optimization, Inf. Sci. Lett. 4, No. 2, 71-83, 2015.
- J.33. **A.F.Ali**, Accelerated Bat Algorithm for Solving Integer Programming Problems, Egyptian computer science journal, Vol 39, no 1, 2015.
- J.34. **A. Fouad**, “A novel hybrid genetic differential evolution algorithm for constrained optimization problems,” International Journal of Advanced Research in Artificial Intelligence, vol. 3, no. 5, 2014.
- J.35. **A. F. Ali**, “Genetic Local Search Algorithm with Self-Adaptive Population Resizing for Solving Global Optimization Problems,” IJIEEB, vol. 6, no. 3, pp. 51– 63, Jun. 2014.
- J.36. **Ahmed Fouad Ali**, “Hybrid Simulated Annealing and Nelder-Mead Algorithm for Solving Large-Scale Global Optimization Problems”. International Journal of Research in Computer Science, 4 (3): pp. 1-11, May 2014. doi: 10.7815/ijorcs.43.2014.084
- J.37. Gehad Mohamed Taher, Mohamed Elsayed Wahed, Ghada El Taweal and **Ahmed Fouad**, “Image fusion approach with noise reduction using Genetic algorithm” International Journal of Advanced Computer Science and Applications (IJACSA), 4(11), 2013.

#### **G) Quality Assurance in Higher Education:**

- **Reviewer/Auditor:** None
- **QA Trainer:** None
- **QA Managing Positions:** Vice president of the quality assurance unit in Faculty of Computers and Informatics- Suez Canal University- Ismailia- Egypt. 2015- 2018.
- **Training Attended:** Attended many QA workshops at Suez Canal University.

#### **H) Skills**

- Language Skills: English (very good)
- Computer Skills: Excellent
- Presentation skills: Very good
- Other skills: