

## PERSONAL INFORMATION

**Hayder H. Safi** (PhD in Computer Science\_ Software Engineering )

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## EDUCATION

7-2019: Altinbas University, Turkey

Ph.D. in Computer Engineering.

11-2006: UoT, Iraq

Master's in computer engineering.

09-2003: UoT, Iraq

Higher Diploma in Artificial intelligence.

09-2000: UoT, Iraq

Bachelor's in Information System.

**RESEARCH INTERESTS** (Main: Artificial Intelligence and Optimization Engineering)  
Evolutionary Algorithms, Multi-objective Evolutionary Algorithms, Software Engineering  
Dynamic Single/Multi-Objective Optimization Problems, Genetic Algorithms. Data mining,  
Twitter Data Analysis, Computer Vision, Image Processing, Biometrics, Machine Learning, Data  
Sciences.

## PUBLICATIONS

### Journals:

1. Safi, Hayder H., Osman N. Ucan, and Oguz Bayat. "An Efficient Multi-Objective Memetic Genetic Algorithm for Medical Image Handling and Health Safety to Support Systems in Medical Internet of Things." *Journal of Medical Imaging and Health Informatics* 10.1 (2020): 194-203.
2. Hayder H. Safi "A Scalable Memetic Algorithm for High Dimensional Power System Optimization Problems According to Systematic Mapping on Software Engineering to Achieve More Performance "International Journal of Advanced Science and Technology" 2020/5/15 Journal, "International Journal of Advanced Science and Technology".29/12/(2020)Pages 1123-1135, Publisher, Science and Engineering Research Support Society.
3. Safi, H. H., A. K. Abbas, and S. Q. AlBawi. "A Survey Using Kano Model and Road map to issues Standard Model of e-commerce Using SPLE technique." *Engineering and Technology Journal* 35.2 Part (B) Scientific (2017): 132-143.
4. Safi, Hayder H., and Husam Abraheim Al-saadi. "All the Public Services by a Single Point in Electronic Government: Government Portal in Iraq." *Journal of Al-Qadisiyah for computer science and mathematics* 3.1 (2011): 254-262.

5. Hayder H. Safi. "Analytical Study and Logical Solutions for the Application of E-Government Project in Iraq, A Comprehensive Vision." journal of the college of basic education 16.69 (2011): 49-64.
6. , Haydar Hassan Safi ,Abbas, Ahmed Khudhair, and Saad Qasim AlBawi. "Using Feature and Orthogonal Variability Models to Design E-Commerce Model With (Software Product Line Engineering) technique." journal of kerbala university 15.2 (2017): 169-178.
7. Safi Al-jebory, Hayder H., and Husam Abraheim Al-saadi. "All the Public Services by a Single Point in Electronic Government: Government Portal in Iraq." Journal of Al-Qadisiyah for computer science and mathematics 3.1 (2011): 254-262.
8. Haydar Hassan Safi ,Khudhair Abbas, Ahmed, Saad Qassim Fleh, and. "Systematic mapping study on managing variability in software product line engineering." DIYALA JOURNAL OF ENGINEERING SCIENCES 8.4 (2015): 511-520.

### Conferences:

1. Safi, Hayder H., Osman N. Ucan, and Oguz Bayat. "On the real world applications of many-objective evolutionary algorithms." Proceedings of the First International Conference on Data Science, E-learning and Information Systems. 2018.
2. Safi, Hayder H., Tareq Abed Mohammed, and Zena Fawzi Al-Qubbanchi. "Minimize the cost function in multiple objective optimization by using NSGA-II." International Conference on Artificial Intelligence on Textile and Apparel. Springer, Cham, 2018.
3. Sahmoud, Shaaban, and Hayder Safi. "Detecting Suspicious Activities of Digital Trolls During the Political Crisis." 2020 IEEE International Conference on Informatics, IoT, and Enabling Technologies (ICIOT). IEEE, 2020.
4. Safi, Hayder H., Osman N. Ucan, and Oguz Bayat. "Study The Effect of High Dimensional Objective Functions on Multi-Objective Evolutionary Algorithms." Proceedings of the Fourth International Conference on Engineering & MIS 2018. 2018.
5. Safi, Haydar Hassan, Khalid Moh Alzaidi, and Zena Fawzi Kadem. "Determine the Close Friends for Twitter Users by Analyzing Users Public Data Name." Distributed Agents for Web Content Filtering (2016): 23.

### Books:

- Hayder H. Safi and Ghalib K. Mohamed: Skills of teaching mathematical and creative thinking in modern technologies by teaching methods.. Baghdad Zaki Academic Publishing, 2019.
- Hayder H. Safi, Tareq Abed Mohammed, Zena Fawzi Al-Qubbanchi , Book Series: Part of the Advances in Intelligent Systems and Computing book series (AISC, volume 849). " Minimize the Cost Function in Multiple Objective Optimization by Using NSGA-II" , Artificial Intelligence on Fashion and Textiles, 2019, Volume 849, ISBN : 978-3-319-99694-3.

## Theses:

- EFFICIENT EVOLUTIONARY ALGORITHMS FOR MANY OBJECTIVE OPTIMIZATION PROBLEMS, Ph.D. thesis (2019).
- Design and Implementation of an Integrated Development Environment for An Electronic Government , Master thesis (2006).

## LANGUAGES

English, Arabic and 50% Turkish

## EXPERIENCE

### Inner experiences:

2003- Now, Almustnsria & Technology university, Professor for different types courses.  
2003- 2009, University of technology, Assistant Lecturer.  
2009 –Now, Al\_Mustanserai University, Assistant Professor.  
2005-2006, Director-general Register Computer College of the university of technology  
2006-2008, Director-general Register the University of Technology  
2003-2010 , UoT, Instructor & team leader for some activities & projects.  
Tasks: Instructor for different programming courses and programmers team leader

### Abroad Experiences:

2013-2019 Advisor TÜRKİYE'NİN İLK ARAPÇA GAZETESİ, The Bosphorus newspaper, Istanbul.  
2014-2018 Advisor for a group of company Information technology, Istanbul.  
2015-2019 Advisor to Mehmed Al-Fateh Foundation for Education, Istanbul.

## Selected Projects

- 1- Analyzing Twitter Public Data – Predicting User Location and Close Friends (Knime)/ python
- 2- Detecting Suspicious Activities of Digital Trolls During the Political Crisis (Knime)/python.
- 3- Handling Feature Drifts in Data Streams Using Evolutionary Algorithms .
- 4- Face Detection (Matlab) using skin color and line of separability.
- 5- Multi-objective Optimization Problems and Algorithms .(C#)/C++
- 6- Advanced and Enhanced AES Encryption Algorithm (Java).
- 7- Medical Data and Images Classifications – Case Study on Anemia and Melanoma (Matlab).

## Grants and Awards

- 1- Excellent Ph.D. degree (GPA: 3.67/4 (93.1%)).
- 2- Full Ph.D. Fellowship from Iraq Government Scholarships (MoHE).
- 3- Best Paper Award from the Fourth International Conference on Engineering & MIS 2018 June 2018 Article No.: 65 Pages 1–5 <https://doi.org/10.1145/3234698.3234763>.

## Activities and Memberships

- ACM , Springer, and IEEE member.
- Review research papers in:
  1. Springer Conferences, 2018.
  2. All conferences of the College of Basic Education, Al-Mustansiriya University, 2019-2020.
  3. Journal of Open Computer Science, 2020.
  4. Participate in writing some research projects for funding.
  5. Give many seminars in Multi\_optimization problem, ELearning, blended learning, network, and communications, systematic mapping, training and developing, medical IoT, and evolutionary algorithms.
  6. Supporting the advisory office of the University of Technology and Information with many projects.