

## Academic Resume



**Maha Sabir**

**Assistant Professor, Information Systems Department**

### Contact Information.

Building 61, Room 112, msaber@kau.edu.sa.

### Highest Degree.

2019, , A Non-Algorithmic File-Type Independent Approach for Finding Stealthy Watermarks in Forensic Investigations, The Catholic University of America, USA.

### Academic and Professional Experiences.

1. **2020 - 2022**  
Consultant at the Vice President and Development, Vice President and Development, KAU.
2. **2019 - 2020**  
Coordinator of the scientific track of the course of programming and problem solving, The Unit of Computer Skills, School of Computing & Information Technology, The Unit of Computer Skills, KAU.
3. **2015 - 2019**  
PhD Researcher, Digital Forensics and Analytics Research Group, USA, George Mason University.
4. **2009 - 2011**  
Lecturer, Production & Update of Educational Materials Division, Deanship of e-Learning and Distance Education, KSA, King Abdulaziz University.
5. **2007 - 2009**  
Data Analyst & Adviser in the Educational Affairs Division, Deanship of Admission and Registration, KSA, King Abdulaziz University.
6. **2003 - 2007**  
Admission Specialist in the Admission Division, Deanship of Admission and Registration, KSA, King Abdulaziz University.
7. **1998 - 2003**  
Programmer in the Student Services Division, Vice Deanship of Girls Student Affairs, KSA, King Abdulaziz University.

### Research Interests.

Digital Forensics, Machine Learning, Big Data, Artificial Intelligence, Deep Learning, Information Risk Management.

### Teaching Interests.

Programming in Python, Data Mining, Machine Learning, Deep Learning, Digital Forensics, Information Risk Management.

## **Certifications and Trainings.**

1. Training Course, "EMES " Education Management Electronic System" & Virtual Classroom System (CENTRA).
2. Advanced E-Learning Certificate Program on Blackboard Learning Management System, George Mason University, Fairfax, VA.
3. Certified Key Performance Indicators (KPI) Professional, The KPI Institute.
4. Diploma of Professional Development in Teaching & Learning, King Abdulaziz University.

## **Social, Scientific and Professional Affiliation.**

## **Excellence Awards and Patents.**

1. 2018, International, Best Paper Award, Proceedings of The 2nd International Conference on Compute and Data Analysis (ICCDCA), DeKalb, IL, USA, Association for Computing Machinery.

## Publications.

1. Maha Farouk Sabir, Mahmoud Ragab, Adil O. Khadidos, Khaled H. Alyoubi, Alaa O. Khadidos, "Ensemble Deep Learning Based Air Pollution Prediction For Sustainable Smart Cities", Computer Systems Science And Engineering, vol: 0, pp. 1-10, 2023.  
DOI: [10.32604/csse.2023.041551](https://doi.org/10.32604/csse.2023.041551)
2. Muhammad Umer, Saima Sadiq, Reemah M. Alhebshi, Maha Farouk Sabir, Shtwai Alsubai, Abdullah Al Hejaili, Mashael M. Khayyat, Ala' Abdulmajid Eshmawi, Abdullah Mohamed, "Iot Based Smart Home Automation Using Blockchain And Deep Learning Models", Peerj Computer Science, vol: 9, pp. e1332, 2023.  
DOI: [10.7717/peerj-cs.1332](https://doi.org/10.7717/peerj-cs.1332)
3. Maha Farouk Sabir, Hadi Oqaibi, Sami Saeed Binyamin, Turki Althaqafi, Mahmoud Ragab, "Colliding Bodies Optimization With Deep Belief Network Based Robust Pedestrian Detection", Ieee Access, vol: 11, pp. 65084-65092, 2023.  
DOI: [10.1109/ACCESS.2023.3287488](https://doi.org/10.1109/ACCESS.2023.3287488)
4. Maha Sabir, Jawad Ahmad, and DaniyalAlghazzawi, "A Lightweight Deep Autoencoder Scheme For Cyberattack Detection In The Internet Of Things", Computer Systems Science And Engineering, 2023.
5. Alex V Mbaziira, Maha F Sabir, Micheline Al Harrack, "Lying Trolls: Detecting Deception And Text-Based Disinformation Using Machine Learning", 2022.
6. Mahmoud Ragab, Ehab Bahauden Ashary, Maha Farouk S. Sabir, Adel A. Bahaddad, Romany F. Mansour, "Mathematical Modelling Of Quantum Kernel Method For Biomedical Data Analysis", Computers, Materials & Continua, vol: 71, pp. 5441-5457, 2022.  
DOI: [10.32604/cmc.2022.024545](https://doi.org/10.32604/cmc.2022.024545)
7. Mahmoud Ragab, Maha Farouk S. Sabir, "Outlier Detection With Optimal Hybrid Deep Learning Enabled Intrusion Detection System For Ubiquitous And Smart Environment", Sustainable Energy Technologies And Assessments, vol: 52, pp. 102311, 2022.  
DOI: [10.1016/j.seta.2022.102311](https://doi.org/10.1016/j.seta.2022.102311)
8. Mahmoud Ragab, Maha Farouk S. Sabir, "Arithmetic Optimization With Deep Learning Enabled Anomaly Detection In Smart City", Computers, Materials & Continua, vol: 73, pp. 381-395, 2022.  
DOI: [10.32604/cmc.2022.027327](https://doi.org/10.32604/cmc.2022.027327)
9. Abdullah Saad AL-Malaise AL-Ghamdi, Mahmoud Ragab, Maha Farouk S. Sabir, Ahmed Elhassanein, Ashraf A. Gouda, "Optimized Artificial Neural Network Techniques To Improve Cybersecurity Of Higher Education Institution", Computers, Materials & Continua, vol: 72, pp. 3385-3399, 2022.  
DOI: [10.32604/cmc.2022.026477](https://doi.org/10.32604/cmc.2022.026477)
10. Abdullah S. AL-Malaise AL-Ghamdi, Mahmoud Ragab, Maha Farouk S. Sabir, "Enhanced Artificial Intelligence-Based Cybersecurity Intrusion Detection For Higher Education Institutions", Computers, Materials & Continua, vol: 72, pp. 2895-2907, 2022.  
DOI: [10.32604/cmc.2022.026405](https://doi.org/10.32604/cmc.2022.026405)
11. Mahmoud Ragab, Khalid Eljaaly, Maha Farouk S. Sabir, Ehab Bahaudien Ashary, S. M. Abo-Dahab, E. M. Khalil, "Optimized Deep Learning Model For Colorectal Cancer Detection And Classification Model", Computers, Materials & Continua, vol: 71, pp. 5751-5764, 2022.  
DOI: [10.32604/cmc.2022.024658](https://doi.org/10.32604/cmc.2022.024658)
12. Maha Farouk S. Sabir, Irfan Mehmood, Wafaa Adnan Alsaggaf, Enas Fawai Khairullah, Samar Alhuraiji, Ahmed S. Alghamdi, Ahmed A. Abd El-Latif, "An Automated Real-Time Face Mask Detection System Using Transfer Learning With Faster-Rcnn In The Era Of The Covid-19 Pandemic", Computers, Materials & Continua, vol: 71, pp. 4151-4166, 2022.  
DOI: [10.32604/cmc.2022.017865](https://doi.org/10.32604/cmc.2022.017865)

## Publications.

13. Wafaa Alsaggaf, Irfan Mehmood, Enas Fawai Khairullah, Samar Alhuraiji, Maha Farouk S. Sabir, Ahmed S. Alghamdi, Ahmed A. Abd El-Latif, Francisco Gomez-Donoso, "A Smart Surveillance System For Uncooperative Gait Recognition Using Cycle Consistent Generative Adversarial Networks (Ccgans)", Computational Intelligence And Neuroscience, vol: 2021, pp. 1-12, 2021.  
DOI: [10.1155/2021/3110416](https://doi.org/10.1155/2021/3110416)
14. Maha Sabir, James Jones, Hang Liu, and Alex Mbaziira, "Predicting Stealthy Watermarks In Files Using Deep Learning", Proceedings Of The 7th International Symposium On Digital Forensic And Security (Ieee), Barcelos, Portugal, 2019.
15. Maha Sabir, James Jones, Hang Liu, and Alex Mbaziira, "Using Machine Learning To Predict Stealthy Watermarks In Files During Cyber Crime Investigations", Proceedings Of The 3rd International Conference On Compute And Data Analysis (Iccda), University Of Hawaii Maui College, Usa, Association For Computing Machinery, 2019.
16. Maha Sabir, James Jones, and Hang Liu, "A Non-Algorithmic File-Type Independent Method For Hiding Persistent Data In Files", Journal Of Information System Security. Vol 14(2): Pp 49&Ndash;63, 2019.
17. Maha Sabir, James Jones, Hang Liu, and Alex Mbaziira, "A Non-Algorithmic Forensic Approach For Hiding Data In Image Files", Proceedings Of The 2nd International Conference On Compute And Data Analysis (Iccda), Dekalb, Il, Usa, Association For Computing Machinery, 2018.
18. Maha Sabir, James Jones, and Hang Liu, "A File-Type Independent Approach To Persistent Forensic Watermarks For Cyber Analysis", Proceedings Of The International Conference Of Computing And Technology. Fairfax, Va. Usa, 2017.
19. Maha Sabir, James Jones, and Hang Liu, "A Non-Algorithmic File-Type Independent Method For Hiding Persistent Data In Files", Las Vegas, Nevada, Usa, 2017.