

Academic Resume



Awny Sayed

Professor, Information Technology Department

Awny Sayed, received his PhD in CS, Data Management System and Knowledge Representation Group, from Duisburg-Essen University, (Germany) in 2005, currently, he is a professor in information technology Department, FCIT, KAU, and Consultant of Vice Presidency of Postgraduates and Scientific Research, KAU, KSA. Before, he was the head of the Computer Science Department and the Program Director for IT program, and head of Scientific Research Department, Ibri college of Applied Sciences, OMAN

Contact Information.

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Highest Degree.

2005, PHD degree, Data Management System and Knowledge Representation, Duisburg-Essen University, Germany.

Academic and Professional Experiences.

1. **2020 - Present**
Consultant in University Vice Presidency for Postgraduate Studies and Scientific Research. King Abdel Aziz University, and professor of information technology, faculty of computing and information technology, King Abdel Aziz University, KSA, , .
2. **2017 - 2019**
PD (Program Director) of information technology program (Special Program). Faculty of Science- Minia University-Egypt., , .
3. **2015 - 2019**
Head of Computer Science Dept. Faculty of Science- Minia University-Egypt., , .
4. **2013 - 2015**
Head of Scientific Research department at Ibri College of applied sciences-Sultanate of Oman., , .
5. **2013 - 2015**
Associate Professor at collage of applied sciences- information technology department, IBRI, Sultanate of Oman., , .
6. **2011 - 2013**
Member in Academic Council of colleges of applied Sciences, Ministry of Higher Education, Sultanate of Oman., , .
7. **2010 - 2015**
Head of the software development major in IT dept. Ibri College of applied sciences-Sultanate of Oman., , .
8. **2009 - 2013**
Assistant Professor at collage of applied sciences- information technology department, IBRI, Sultanate of Oman., , .

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Academic and Professional Experiences.

9. **2008 - 2009**
Manger of the Internet Unit at Minia University-Egypt., , .
10. **2008 - 2008**
Visitor professor to Duisburg-Essen University, Germany., , .
11. **2007 - 2009**
Manger of the computer center at the Minia University- Egypt., , .
12. **2006 - 2008**
Software manager at the management information system project (MIS) (one of ICTP projects)- Minia university- Minia – Egypt., , .
13. **2005 - 2009**
Assistant Professor at Computer Science Department, Minia University Egypt., , .
14. **2003 - 2005**
Scientific Co-worker at Institute of Computer Science and Business Information System, Data Management System and Knowledge Representation Group, Duisburg-Essen University, Germany., , .
15. **2000 - 2003**
Research assistance, Max-Planck Institue of Informatik, Saarland''s, Germany, , .
16. **1992 - 1998**
Teaching Assistant, Faculty of Science, Computer Science Dept., Minia University, Egypt, , .

Research Interests.

Big Data analysis and modeling, AI and medicine , Machine and Deep Learning, Adversarial machine learning, XML Database and Query Processing, Semantic web, Semantic search RDF, Ontology, OWL, AI and medical application.

Teaching Interests.

Database design, Database management system, System analysis and design, Web Development, Software project management, Advanced web development.

Certifications and Trainings.

1. Oracle 8i Database Administration, Developer 6i., 2- Arabic Development Association (Linux Mandrake 10.1 community) , 3- Oracle 10g Introduction to SQL 4- Oracle 10g Introduction to PL/SQL 5- Oracle 10g Workshop I 6- Oracle 10g Workshop II 7- Java 8- Photoshop 9- Soft skills.

Social, Scientific and Professional Affiliation.

1. 2020-Present, Professor, Information technology department, Faculty of Computing and Information technology.

Excellence Awards and Patents.

1. 2015, International, Omani National Research Awards 2015 in the field of information and communication technology (From The Research Council TRC Sultanate of Oman), The Research Council, Sultanate of Oman.

Funded Projects.

1. 2022, Modified weIghted meaN oF vectOrs Optimizer for Chronic Kidney Disease Classification, Institutional Support Program , KAU

2. 2022, Defense Against Adversarial Face Images using AI Techniques, Institutional Support Program , KAU, ..
3. 2012, Building and Analyzing an Efficient and Scalable Arabic Information Retrieval System Based on XML and Semantic Web technologies, TRC, Oman, PI (Principle Investigator) of a funded project from TRC (Oman, 2012) Title of the project: Building and Analyzing an Efficient and Scalable Arabic Information Retrieval System Based on XML and Semantic Web technologies. Project duration: Three years (2012-2015) Project Cost: 77,000 ROM (US200, 000 \$).
4. 2022, Federated Machine Learning Model Selection for Healthcare IoT, Institutional Support Program, KAU
5. 2022, Dynamic Candidate Solution Enhanced Beluga Whale Optimization algorithm for Cardiac Arrhythmia Classification, Institutional Support Program , KAU, ..

Publications.

1. Awny Sayed , Mamdouh M. Gomaa, Mostafa Medhat Nazier, "Sentiment Analysis On Twitters Big Data Against The Covid- 19 Pandemic Using Machine Learning Algorithms", Information Sciences Letters, Volume 12, Issue 8, Aug., 2023.
2. Awny Sayed, Sohair Kinlany, Alaa Zaki, Ahmed Mahfouz, "Veriface: Defending Against Adversarial Attacks In Face Verification Systems", Computers, Materials & Continua, vol: 0, pp. 1-16, 2023.
DOI: [10.32604/cmc.2023.040256](https://doi.org/10.32604/cmc.2023.040256)
3. Essam H. Houssein, Awny Sayed, "Boosted Federated Learning Based On Improved Particle Swarm Optimization For Healthcare Iot Devices", Computers In Biology And Medicine, vol: 163, pp. 107195, 2023.
DOI: [10.1016/j.compbiomed.2023.107195](https://doi.org/10.1016/j.compbiomed.2023.107195)
4. Essam H. Houssein and Awny Sayed, "A Modified Weighted Mean Of Vectors Optimizer For Chronic Kidney Disease Classification&Rdquo;.", Computers In Biology And Medicine, Volume 155, March 2023, 106691, 2023.
5. Essam H. Houssein and Awny Sayed, "Dynamic Candidate Solution Boosted Beluga Whale Optimization Algorithm For Biomedical Classification", Mathematics 2023, 11(3), 707, 2023.
6. Enas Elgeldawi, Maha Mahrous and Awny Sayed, "Split-N-Swap: A New Modification Of The Twofish Block Cipher Algorithm", Computers, Materials & Continua 2023, 74(1), 1723-1734., 2023.
7. Awny Sayed, Essam Houssein *, Nahed Ibrahim, Alaa Zaki, "Semantic Protocol And Resource Description Framework Query Language: A Comprehensive Review", Mathematics, Vol10, Issue 17, 2022.
8. Enas Elgeldawi, Awny Sayed, Ahmed R Galal, Alaa M Zaki, "Hyperparameter Tuning For Machine Learning Algorithms Used For Arabic Sentiment Analysis", Nformatics 2021, 8(4), 79, 2021.
9. Awny Sayed, Mohamed Abdallah, Aaa Zaki, Ali Ahmed, "Big Data Analysis Using A Metaheuristic Algorithm: Twitter As Case Study", The International Conference On Innovative Trends In Communication And Computer Engineering (Itce 2020), 2021.
10. Awny Sayed, Sohair A. Kilany, Ahmed Mahfouz, Alaa M. Zaki, "Analysis Of Adversarial Attacks On Face Verification Systems", The Interinational Conference On Artificial Intelligence And Computer Vision, 2021.
11. Enas Elgeldawi, Maha Mahrous and Awny Sayed, "A Comparative Analysis Of Symmetric Algorithms In Cloud Computing: A Survey", International Journal Of Computer Applications 182 (48), 2020.
12. Awny Sayed, Enas Elgeldawi, Aaa Zaki, Ahmed Galal, "Sentiment Analysis For Arabic Reviews Using Machine Learning Classification Algorithms", The International Ieee Conference On Innovative Trends In Communication And Computer Engineering (Itce 2020), 2020.
13. Awny Sayed and Amal Al Maqurshi, "Ibri-Casonto: Ontology-Based Semantic Search Engine", Egyptian Informatics Journal, Volume 18, Issue 3, 2019.
14. Awny Sayed and Amal Al Maqurshi, "An Efficient And Scalable Arabic Semantic Search Engine Based On A Domain Specific Ontology And Question Answering", In International Journal Of Web Information Systems (Ijwis), Vol. 12, Issue 2, 2019.
15. Awny Sayed and Amal AL Maqurshi, "Ibri-Casonto: Ontology-Based Semantic Search Engine", Elsevier Egyptian Informatics Journal, Volume 18, Issue 3, 2019.
16. Awny Sayed and Amal Al Maqurshi, "Caseng: Arabic Semantic Search Engine", Journal Of Theoretical And Applied Information Technology. Vol. 75, 2016.
17. 10- Awny Sayed and Amal Al Maqurshi, "Casonto: Ontological Arabic Search Engine&Rdquo;.. Global Journal Of Computer Science And Technology", Journal Of Computer Science And Technology, Vol 15, Issue 4, 2016.
18. Mayyada Hammoshi and Awny Sayed, "An Analysis For A Cluster Tree Zigbee Topology", Journal Of Theoretical And Applied Information Technology. Vol. 64 Issue 3, 2015.

Publications.

19. 13- Sharmi Sankar, Munesh Singh, Awny Sayed and Jihad Alkhalaf Bani-Younis, "An Efficient And Scalable Rdf Indexing Strategy Based On B-Hashed-Bitmap Algorithm Using Cuda", International Journal Of Computer Applications (Ijca), Vol 104 (7)., 2015.
20. 12- Mohammed Kayed, Awny Sayed and Marwa Hashem, "A Classifier For Schema Types Generated By Web Data Extraction Systems", In International Journal Of Computer Applications (Ijca) (December 18, 2014). Volume 107, Number 1, 2015.
21. 18- Sharmi Sankar, Awny Sayed, and Jehid Bin Youn, "A Schematic Analysis Of Selctive Rdf Stores", Jca Jan 2014., 2014.
22. Awny Sayed and Sharmi Sankar, "From Xml To Rdf. A New Semantic Information System", International Journal Of Electronic Communications And Computer Science. Volume 5, Issue 1, Jan 2014, 2014.
23. Awny Sayed and Amal Al maqrashi, "Scalable And Efficient Self-Join Processing Technique In Rdf Data", International Journal Of Computer Science Issues (Ijcsi), Volume 11, Issue 2. April 2014, 2014.
24. Mayyada Hammoshi, Razan Al-Ani and Awny Sayed, "Zigbee Network Simulation On Different Topologies Using Opnet", The 2nd International Conference On Applied Information And Communications Technology, 2014.
25. 20- Awny Syed, Mohamed Kayed, Mayyada Hamshi, "Efficient Evaluation Of Reachability Query For Directed Acyclic Xml Graph Based On A Prime Number Labelling Schema", In Egyptian Informatics Journal In Vol.13, Issue 3, 2013.
26. 19- Moheb Girigz, Alaa El-Nashar, Awny Sayed, and Tanhy Mohamed, "The Development Of An Automated Gui Testing Tool", The Sixth International Conference On Intelligent Computing And Information Systems 2013 (Icicis 2013), Cairo, Egypt., 2013.
27. Awny Sayed, "Xml Information Retrieval System: A Survey", In The International Information Systems Conference (Iisc), 2011. Sultan Qaboos University, Muscat, Sultanate Of Oman. 11-12 October, 2012, 2012.
28. Awny Sayed , Ahmed A A Radwan, Mohamed masod, "Efficient Evaluation Of Relevance Feedback Algorithms For Xml Content-Based Retrieval System", International Journal Of Web Information Systems Vol. 6 No. 2, 2011.
29. Tarek M. Mahmoud, Bahgat A. Abdel-latef, Awny A. Ahmed, Ahmed M. Mahfouz, "Hybrid Compression Encryption Technique For Securing Sms", Journal Computer Science And Security (Csc Journals), 2011.
30. Ahmed A A Radwan, Awny Sayed, Mohamed masod, "Efficient Evaluation Of Relevance Feedback Algorithms For Xml Content-Based Retrieval System", The 4th Indian International Conference On Artificial Intelligence, 2010.
31. Awny Sayed, "Fast And Efficient Computation Of Connectivity Queries Over Linked Xml Documents Graph", , International Journal Of Web Information System, Issue 1, Vol. 4., 2009, 2009.
32. Awny Sayed, "Fast Computation Of Connectivity Queries Over Linked Xml Documents Graph", Infos2008 Cairo Uni, 2008.
33. A A Radwan, Awny Sayed and M. abddella, "Xcors: A New Xml Content-Based Retrieval System", Iccta 2008 , Egypt., 2008.
34. Awny Sayed, "A Prime Scheme For Reachability Queries Over Large Xml Graph", Icicis2007, Egypt, 2007, 2007.
35. Sayed A., Rainer Unland, "An Efficient Path Index For Complex Xml Collections With Arbitrary Links", Dnis 2005, Japan., 2005.
36. Sayed, A.; Unland, R., "Indexing And Querying Heterogeneous Xml Collections", 14th International Conference On Computer Theory And Applications; September 28 - September 30; 2004., 2004.
37. Sayed, A.; Unland, R., "Index-Support On Xml-Documents Containing Links", The 46th International Ieee Midwest Symposium On Circuits And Systems; Cairo, Egypt, December 27, 2003, 2003.