

Curriculum Vitae

(September 2022)



DR. AWAD ALI ABELRHIM OMAR

PhD Software Engineering (UTM, Malaysia, 2016), MSc Computer science (Khartoum, 2009),
BSc Computer Science and Statistics (School of Math, Al-Neelain, 2005)

1. PERSONAL DATA

Name	Awad Ali Abdelrhim Omar
Office Address	Computer Department, Sharurah, Najran University. Najran, Saudi Arabia.
Telephone	tell 966508128932
E-mail	awad.uofkassal (at) yahoo.com aaomar (at) nu.edu.sa
Date of Birth	June, 1978
Place of Birth	Sudan
Sex	Male
Marital Status	Married
Language	Arabic native, English fluent

2. ACADEMIC QUALIFICATIONS

- 2012 – 2016 Ph.D Computer Science/Software Engineering
University Technology Malaysia (UTM), Malaysia.
Thesis: *Early Reliability Prediction Approach for Component-Based Software Systems.*
- 2008 – 2009 M.Sc. Computer Science
University of Khartoum, Suadn.
The graduation project: *Using Naïve Bayes and Bayesian Network for Prediction of Potential Problematic Cases in Tuberculosis*
- 2000 – 2005 B.Sc. Hons. in Statistics & Computer Science (Second class(Division one)), School of Math, Al-Neelain University, Sudan.
The graduation project: *Developing statistical package using visual basic 6 to determine the optimal size of the statistical samples.*
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3. AREA OF EXPERTISE/INTEREST

Computer Science/Software Engineering

- Design and implementation of training workshops
- Academic management and teaching
- Software Project Management and consultation
- Software Quality Measurement
- Embedded and Real-time Systems
- Decision Analysis
- Data Mining and Machine learning

4. ADMINISTRATIVE POSITIONS

Feb 2019 - present	Supervisor of Registration Unit, Sharurah College, Najran University, Saudi Arabia
Aug 2016 – Aug 2017	Head Computer Science Department, Faculty of Computer Science and Informaton Technology University of Kassala, Sudan.
May 2011 – March 2012	Postgraduate coordinator, Faculty of Computer Science and Informaton Technology University of Kassala, Sudan.
May 2011 – March 2012	Laboratories Admin, Faculty of Computer Science and Informaton Technology, University of Kassala, Sudan.

5. EMPLOYEMENT

Feb 2018 – Present	Assistant Professor College of Science and Art Sharurah, Najran University, Saudi Arabia.
November 2017 – 2018	Assistant Professor College of Computer Studies and Information Technology, University of Garden City, Sudan.
Jun 2016 – Aug 2017	Assistant Professor Faculty of Computer Science and Informaton Technology University of Kassala, Sudan.
Jun 2009 – May 2016	Lecturer, Faculty of Computer Science and Informaton Technology University of Kassala, Sudan.
Jun 2007 – May 2009	Teaching Assistant, Faculty of Computer Science and Informaton Technology

University of Kassala, Sudan.

Nov 2005 – Dec 2006

Teaching Assistant,
Faculty of Computer Science and Informaton Technology
University of Al-Neelain, Sudan.

6. OTHER POSITIONS AND RESPONSIBILITIES

- Jun 2016 – Aug 2017 Head of Technical consultation team of university of Kassala for the development of ERP Systems.
- Jun 2016 – Agu 2017 Member of Senate, Faculty of Computer Science and Informaton Technology / University of Kassala.
- Apl 2012 – Jun 2016 Member, Software Engineering Research Group (SERG), Faculty of Computing, University Technology Malaysia (UTM), Malaysia.
- Nov 2013 – May 2016 Head of Sudanese Research Group, University Technology Malaysia.
- May 2011 – Mac 2012 Member, Senate Committee for Postgraduate Studies, University of Kassala.
- Jun 2009 – Mac 2012 Member of Senate, Faculty of Computer Science and Informaton Technology / University of Kassala.
- Jan 2007 – Feb 2008 Member of Senate, Faculty of Computer Science and Informaton Technology / University of Kassala.
- Nov 2010 – May 2011 Involved as one of the task force for establishing and developing postgraduate programs in the Information Technology Department / Faculty of Computer Science and Informaton Technology / University of Kassala, Sudan.
- Jan 2007 – Dec 2008 Involved as one of the task force for establishing and developing Faculty of Computer Science and Informaton Technology / University of Kassala, Sudan.
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7. PUBLICATIONS

7.1 Journals

- 1) Awad Ali, Aamir Fatahayab and Others, " Data Reliability and Sensors Lifetime in Bridge Health Monitoring using LoRaWAN-Zigbee", Computers, Materials & Continua journal, published 16 June 2022 (ISI journal, Q2 Impact factor 3.8, USA).
- 2) Awad Ali, Mohammed Bakri Bashir and Others, "Design-Time Reliability Prediction Model for Component-Based Software Systems, Sensors journal, published 6 April 2022 (ISI journal, Q1 Impact factor 3.8, Switzerland).
- 3) Tawfeeg, Awad Ali and Others, "Cloud Dynamic Load Balancing and Reactive Fault Tolerance Techniques: A Systematic Literature Review (SLR), IEEE Access journal, published 5 July 2022 (ISI journal, Q2 Impact factor 3.4, UK).
- 4) Alzubair Hassan, Awad Ali and Others, "A Secure User Authentication Protocol for Heterogeneous Mobile Environments", IEEE Access journal, published 27 June 2022 (ISI journal, Q2 Impact factor 3.4, UK).
- 5) Rafik Hamza, Awad Ali and Others, " Towards Secure Big Data Analysis via Fully Homomorphic Encryption Algorithms", Entropy journal, published 6 April 2022 (ISI journal, Q1 Impact factor 2.7, Switzerland).
- 6) Adil Yousif, Awad Ali and Others, "Greedy Firefly Algorithm for Optimizing Job Scheduling in IoTGrid Computing", Sensors journal, published 23 January 2022 (ISI journal, Q1 Impact factor 3.8, Switzerland).
- 7) Adil Yousif and Awad Ali, "The impact of intervention strategies and prevention measurements for controlling COVID-19 outbreak in Saudi Arabia", Mathematical Biosciences and Engineering journal, published 13 November 2020 (ISI journal, Q3 Impact factor 2.2, USA).
- 8) Awad Ali, "Early software behaviour modeling methods: a review", journal of software engineering & intelligent systems, published 30 April 2020 (Google scholar index, Pakistan).
- 9) Awad Ali, Dayang N.A. Jawawi, Mohd Adham Isa, "Technique for Early Reliability Prediction of Software Components using Behaviour Models", Plose One journal, published 26 September 2016 (ISI journal, Q1 Impact factor 3.057, USA).
- 10) Awad Ali, Dayang N.A. Jawawi, Mohd Adham Isa, "Scalable Scenario Specifications to Synthesize Component-centric Behaviour Models", International Journal of Software Engineering and Its Applications 9 (9), 79-106, 2015 (Scopus Indexed, Korea).
- 11) Awad Ali, Dayang N.A. Jawawi, Mohd Adham Isa, "Strategy for Scalable Scenarios Modeling and Calculation in Early Software Reliability Engineering " Jurnal Teknologi 77 (9) 2015 (Scopus Indexed, Malaysia).
- 12) Abubakar Elsafi, Dayang N.A. jawawi, Abdelzahir Abdelmaboud, and Awad Ali, "Acomparative Evaluation of State-of-the- Art Integration Testing Techniques of Component-Based Software", Journal of Theoretical and Applied Information Technology 20th January 2015. Vol.71 No.2, (Scopus Indexed, Pakistan).

- 13) Awad Ali, Moawia Elfaki, Dayang N.A. Jawawi, "Using Naïve Bayes and Bayesian Network for Prediction of Potential Problematic Cases in Tuberculosis", International Journal of Informatics and Communication Technology (IJ-ICT), Vol. 1, No.2, December 2012, pp. 63~71(google scholar indexed, Indonesia).

7.2 Conferences

- 1) Awad Ali, Dayang N.A. Jawawi, Mohd Adham Isa, Ashraf Osman Ibrahim "Deriving Behavioural Models of Component-Based Software Systems from Requirements Specifications" International Conference on Computing, Control, Networking, Electronics and Embedded Systems Engineering, 2015, Khrtoum, Sudan (IEEE Conference proceeding).
 - 2) Ashraf Osman Ibrahim, Siti Mariyam Shamsuddin, Abdulrazak yahya saleh, Abdelzahir Abdelmaboud, Awad Ali, "Intelligent Multi-objective Classifier for Breast Cancer Diagnosis Based on Multilayer Perceptron Neural Network and Differential Evolution" International Conference on Computing, Control, Networking, Electronics and Embedded Systems Engineering, 2015, Khrtoum, Sudan (IEEE Conference proceeding).
 - 3) Awad Ali, Dayang N.A. Jawawi, Mohd Adham Isa, "Modeling and calculation of scenarios reliability in component-based software systems", 8th Malaysian Software Engineering Conference (MySEC), 2014, Langkawi, Malaysia (IEEE Conference proceeding).
 - 4) Awad Ali, Dayang N.A. Jawawi, "Architecture-Based Software Reliability Prediction Approach for Component Based Software", Proceeding of Software Testing conference (SoftecAsia2013), 2013, Kuala-Lumpur, Malaysia.
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8 TEACHING AND SUPERVISIONS

11.1 TEACHING

Master Degree Level

- Research Methodology
- Advanced Software Engineering
- Software Quality Assurance

Bachelor Degree Level

- Programming Techniques (Pascal, C, C++, Java)
- Website Development using (PHP)
- Computer Graphics
- Data Structure
- Modeling and Simulation
- Network Programming using Java
- Introduction to Software Engineering
- Software Modeling and Design
- Advanced Software Engineering
- Human Computer Interaction

- Statistical Analysis using SPSS & STATA
- Introduction to Probability and Statistic
- Discrete Mathematics