

# Curriculum Vitae

(July 2017)



## DR. AWAD ALI ABELRHIM OMAR

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

### 1. PERSONAL DATA

Nam	<b>Awad Ali Abdelrhim Omar</b>
Pass No.	P02235679
Office Address	Faculty of Computer Science and Information Technology University of Kassala, Kassala state, Sudan.
Telephone	Mobile: 00249 117862675
E-mail	<a href="mailto:awad.ali625@gmail.com">awad.ali625@gmail.com</a> <a href="mailto:awad.uofkassala@yahoo.com">awad.uofkassala@yahoo.com</a>
Date of Birth	22 June, 1978
Place of Birth	Kosti, Sudan
Sex	Male
Marital Status	Married (3 children)

### 2. ACADEMIC QUALIFICATIONS

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

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### 3. ADMINISTRATIVE POSITIONS

Aug 2016 – Present	<b>Head Computer Science Department Faculty of Computer Science and Informaton Technology</b> University of Kassala, Sudan.
May 2011 – March 2012	<b>Postgraduate coordinator Faculty of Computer Science and Informaton Technology</b> University of Kassala, Sudan.
May 2011 – March 2012	<b>Laboratories Admin Faculty of Computer Science and Informaton Technology</b> University of Kassala, Sudan.

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### 4. EMPLOYEMENT

Jun 2016 – Present	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.

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### 5. OTHER POSITIONS AND RESPONSIBILITIES

Jun 2016 – Present	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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## 6. AREA OF EXPERTISE/INTEREST

### Computer Science/Software Engineering

- Software Reliability
- Modeling and Analysis of Software Architecture
- Software Quality Measurement
- Component-Based Software Systems
- Embedded and Real-time Systems
- Decision Modelling and Support Systems
- Data Mining, Machin learning algorithms

## 7. PUBLICATIONS

### 7.1 Journals

- 1) Awad Ali, Dayang N.A. Jawawi, Mohd Adham Isa, "Technique for Early Reliability Prediction of Software Components using Behaviour Models, published 26 September 2016 (ISI journal, Q1 Impact factor 3.057, USA).
- 2) 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).
- 3) 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).
- 4) 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 20<sup>th</sup> January 2015. Vol.71 No.2, (Scopus Indexed, Pakistan).

- 5) 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”, 8<sup>th</sup> 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
- Human and Computer Interaction
- Development of Software Quality

#### Bachelor Degree Level

- Programming Techniques (Pascal, C, C++, Java)
- Java Concepts
- Computer Graphics
- Data Structure
- Modeling and Simulation
- Network Programming using Java
- Website Development using (PHP)
- 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
- Calculus

## 11.2 SUPERVISION

### PhD

<u>Student</u>	<u>Title</u>	<u>status</u>
Hozifa Adam	Model for Software Effort Estimation	under going
Khadija	Cloud Computing-based Model for E-Government	under going

### MSc

<u>Student</u>	<u>Title</u>	<u>status</u>
Amani Tayfour	MBT Test Case Generation comparison Evaluation	under going

### BSc

- Supervised more than 20 BSc Final Year Student Projects/Intermediate Diploma.