Resume of
Emsaieb Geepalla

Address: Gerah, Ashati, Libya
Mobile: 00218921115354
Fax: 00218715121019
E-mail: Qao@sebhau.edu.ly
Ems.geepalla@sebhau.edu.ly

Current status

Head of Quality Assurance and Performance Evaluation Office, Sebha University
Assistant Professor at School of Electrical and Computer Engineering,
Faculty of Engineering Science and Technology, Sebha University,
Libya

Career Objective

- To seek challenging assignment and responsibility, with an opportunity for growth and career advancement as successful achievements.

Education

- **PhD in Computer Science, 2013**

Affiliation	:	School of Computer Science, University of Birmingham, Birmingham, UK.
Principal supervisor	:	Dr. Behzad Bordbar
Thesis Title	:	Model Driven Approaches to Analyze Time and Location Dependent Access Control Specification

- **M.Sc. in Information and Communication Technology, 2007.**

Affiliation	:	School of Information Technology, University Utara Malaysia (UUM)
GPA:	:	3.55/4.0

- **B.Sc in Communication Engineering, 2002**

Affiliation	:	School of Electrical and Computer Engineering Sebha University, Brak, Ashati. Libya
Grade	:	GPA: 68.37.

Job Experiences

- **Sep 2019 – Till now, Head of Quality Assurance and Performance Evaluation**
  Place of job: Sebha University, Sebha, Libya.

- **Dec 2016 – Till Date, Assistant Professor**
  Place of job: School of Electrical and Computer Engineering,
  Faculty of Engineering Science and Technology,
  Sebha University, Brak Ashati, Libya.

- **Sep 2015 – Sep 2019, Dean of Faculty**
  Place of job: Faculty of Engineering Science and Technology,
  Sebha University, Brak Ashati, Libya.

- **Apr 2016 – Apr 2017 Part Time, Researcher**
  Place of job: Research and Development office, Almadar Aljdid,
  Libya.

- **Dec 2013 – Nov 2016, Lecturer**
  Place of job: School of Electrical and Computer Engineering,
  Faculty of Engineering Science and Technology,
  Sebha University, Brak Ashati, Libya.

- **Nov 2014 – Sep 2015, Head of School**

  Place of job: School of Electrical and Computer Engineering,
  Faculty of Engineering Science and Technology,
  Sebha University, Brak Ashati, Libya.

- **June 2013-Nov 2013, Postdoctoral Research Fellow**
  Place of job : British Telecom Research Centre and University of Birmingham
  Birmingham, UK.

- **Aug 2007-Feb 2009, Assistant Lecturer**
  Place of job : School of Electrical and Computer Engineering,
  Faculty of Engineering Science and Technology,
  Sebha University, Brak Ashati, Libya.

- **Sep 2002-Dec 2005, Teacher**
  Place of job : Algouds Secondary School,
  Gerah Ashati, Libya.

Awards and Recognition

- Received, in Jan 2008, a scholarship from the Libyan Ministry of Higher Education to pursue PhD study in The United Kingdom.
- Received postdoctoral fellowship awards from British Telecom during the period of June and Nov 2013.
- Received, in Apr 2016 research grant from Almadar Aljdid Company.
- Appointed as Head of Electrical and Computer Engineering at Faculty of Engineering Science and Technology, Sebha University, Nov 2014.
- Appointed as Dean of Faculty of Engineering Science and Technology, at Sebha University, Sep 2015.
- Appointed as Head of Quality Assurance and Performance Evaluation, at Sebha University, Sep 2019.

Software and Computer Language Proficiency

- **Programming** **:** C, C++, JAVA, XML
- **Platforms** **:** Enterprise Linux, Windows 2000, XP, Vista, Ubuntu Servers
- **Open Source** **:** Neo4j, Hadoop, Netbeans IDE, Eclipse IDE
- **Tools** **:** Matlab, LaTeX

Teaching Experience

- **Taught the following modules:**
  - ❖ Object Oriented Language
  - ❖ Big data Management
  - ❖ Data Structure
  - ❖ Graph Database
  - ❖ Information Security
  - ❖ Software Engineering
  - ❖ Software Development
  - ❖ Computer Engineering

Journal Publications

[1] Emsaieb Geepalla and Behzad Bordbar. "An Automated Approach to Detect Inconsistency and Semi-consistency Spatio-Temporal Role Based Access Control Specification." Journal of Data Processing Volume 2, no. 3 (2012).

[2] Emsaieb Geepalla, Nassir Abuhamoud. "Using Spatio-Temporal Role Based Access Control for Physical Access Control Specification: Towards Effective Cyber-Physical Systems." The International Journal of Innovative Science and Modern Engineering™ (IJISME). Volume-3 Issue 7, June 2015.

[3] Nassir Abuhamoud, Emsaieb Geepalla. "Methods of Compensation Instability of Frequency Modulators in the Absence of the Modulation Signal". The International Journal of Engineering Science (IJES). Volume 4, Issue 6, Pages PP.58-62, June - 2015

Conferences Publications

[4] Emsaieb Geepalla, Behzad Bordbar, and Joel Last. "Transformation of spatio-temporal role based access control specification to alloy." In Model and Data Engineering, pp. 67-78. Lecture Notes in Computer Science, Springer, 2012.

[5] Emsaieb Geepalla and Behzad Bordbar. "On formalizing of Inconsistency and Semi-consistency in Spatio-Temporal Access Control." In the Seventh IEEE International Conference on Information Management (ICDIM), page 22-29. IEEE 2012.

[6] Emsaieb Geepalla, Behzad Bordbar, and Kozo Okano. "Verification of Spatio-Temporal Role Based Access Control using Timed Automata." In Networked Embedded Systems for Every Application (NESEA), 2012 IEEE 3rd International Conference on, pp. 1-6. IEEE, 2012.

[7] Emsaieb Geepalla, Nassir Abuhamoud. "Verification of Time and Location Dependent Access Control Specification." In the 2nd World Symposium On Computer Network and Information Security 2015. IEEE 2015.

[8] Emsaieb Geepalla, Behzad Bordbar, Kozo Okano and Seyedhamed Seyedali. "AC2Uppaal: A Tool for automatic Generation of Timed Automata form Spatio-

Temporal Role Based Access Control Specifications." In the Proceeding of World Congress of Internet Security (WorldCIS) 2013. IEEE, 2013.

[9] Emsaieb Geepalla, Behzad Bordbar, and Xiaofeng Du. "Spatio-Temporal Role Based Access Control for Physical Access Control Systems." In the Fourth International Conference on Emerging Security Technologies (EST) 2013. IEEE, 2013.

[10] Emsaieb Geepalla. "Comparison between Alloy and Timed Automata for modelling and analysing of access control specifications," Third International Conference on Cyber Security, Cyber Warfare and Digital Forensic (CyberSec), 2014, vol., no., pp.16,21. IEEE 2014.

[11] Emsaieb Geepalla. "Model-Driven Approaches to Analysing Time- and Location-Dependent Access Control Specifications." PhD Thesis, University of Birmingham, 2013.

[12] Nassir Abuhamoud, Emsaieb Geepalla. "Using Ad Hoc-network with IEEE802.11 ac: Possibilities and Challenges," The First Scientific Symposium of Electrical and Electronic Engineering (EEES) 2016.

[13] Geepalla, E., Abuhamoud, N. and Abouda, A., 2018. Analysis of Call Detail Records for Understanding Users Behavior and Anomaly Detection Using Neo4j. In 5th International Symposium on Data Mining Applications (pp. 74-83). 2018. Springer, Cham.

[14] Abuhamoud, N., Geepalla, E. "Using Neo4j For Fraud Detection in Banks Sector." The Libyan International Conference on Electrical Engineering and Technology (LICEET2018).

[15] Abuhamoud, N., Geepalla, E. "A Study of Using Big Data and Mobile Data for Criminal Investigation" The second International Conference on Science and Technology (ICST-2019).

[16] Emsaieb Geepalla and Salwa Alsharif. "Analysis of Physical Access Control System for Understanding Users Behavior and Anomaly Detection Using Neo4j." Accepted for publication in the International Conference on Electrical Engineering and Information Technology (ICEEIT 2020).

[17] Ali Ukasha, Emsaieb Geepalla, Majdi Elbreki. "A Review: Spatial Domain Methods Comparison for Single Arabic Contours Approximation" Accepted for publishing in International Conference on Computing and Information Technology Proceedings (ICCIT-1441). IEEE 2020.

Research Interest

My research interests broadly cover Cyber Physical Access Control, Formal Methods, and Model-Driven Architecture. I am also interested in studying, understanding, and modelling large-scale data. My more specific themes of research include:

- Modelling and Verification Access Control

    Modelling and Analysis of Cyber Physical Systems

- Formalizing Anomaly Problems for Complex Data

- Anomaly detection in large complex Data

- Big Data Analytics

Research Grants

Graph-Based Method for Anomaly Detection in Physical Access Control, period June 2013 – Nov 2013, (14000$), British Telecom (BT) grant.
Analysis of Mobile Network Database Using Neo4j: Almadar Aljdid Case Study, period April 2016 – Feb 2017, (30000$), Almadar Aljdid grant.

Software Development

- Designed and developed the AC2Alloy tool – An Eclipse plug-in, 2011
- Designed and developed the AC2Uppaal tool – An Eclipse plug-in, 2012
- Designed and developed a website of AC2Alloy and AC2Uppaal tools, 2013.
  http://www.cs.bham.ac.uk/~bxb/accesscontrol/
- Designed and developed the AC2Neo4j tool – An Eclipse plug-in, 2019

Professional Activities

- The Chairman of the organizing committee of the second international conference on Science and Technology at Sebha University, 2019.
- The chair of self-evaluation team at Faculty of Engineering Science and Technology 2018-2020.
- The Chairman of the organizing committee of the first postgraduate student at Sebha University, 2017.
- Member of the jury team for Almadar Aljdid competition, 2017.
- Member, IEEE.
- Member, EATCS (European Association for Theoretical Computer Science)
- Member, SCTA (Computer Science Teachers Association),

Personal Details

Date of Birth   :   28 June 1978.
Place of Birth   :   Brak, Libya
Nationality   :   Libyan
Residential Address :   Gerah, Ashati, Libya

References

Name	Position	Email
❖ Prof. Rasim Alsanbani	Vice Dean of Engineering Science and Technology	V.dean@feng.sebhau.edu.LY
❖ Associate Prof. Ali Ukasha	Lecturer of Electrical and Computer Engineering School	Ali.Ukasha@Sebhau.Edu.LY
❖ Assistant Prof. Mohamed Erhaim	Vice President of Sebha University	V.Presedint@Sebhau.Edu.LY