Mansour Essgaer

Senior Lecturer / Software Developer

1 . P e r s o n a l   P a r t i c u l a r :

Full name:	Mansour Ali Abdoulha Essgaer
Nationality:	Libyan
Date of birth:	Tripoli, 15-Jan-1980
Marital status:	Married
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Current address:	Sebha, Libya

2 . P e r s o n a l   S t a t e m e n t :

I believe that my academic training and my almost five years of research experience prepare me to be an effective researcher and instructor in computer sciences. I am highly qualified to handle wide range of topics related to computer science (fundamental and advanced subjects). Moreover, I am capable to supervise undergraduate students in their final year project as well as postgraduate candidates. hands-on experience using several programing languages to create and implement software applications as developer and teaching skill to deliver lectures, seminars, tutorials, and assessing students coursework.

3 . A c a d e m i c   Q u a l i f i c a t i o n s :

3.1 Ph.D. in Computer Science (Artificial Intelligence, Data Mining and Optimization), from Faculty of information science and technology, **Universiti Kebangsaan Malaysia**.
- **Thesis title** 'Insertion based construction heuristic with cuckoo search metaheuristic for capacitated vehicle routing problem'

3.2 Master in Computer Science (Artificial Intelligence), December 2008, School of Computing, College of Arts and Sciences, **Universiti Utara Malaysia.**
- **Thesis title** '*Mining Sebha University student enrolment data using descriptive and predictive approaches*

3.3 Bachelor in Computer Sciences, July 2002, Faculty of sciences, **Sabha University,** Libya**.**
- **Final project title** '*Develop a registrar office student administration system with rational database*'

4 . P u b l i c a t i o n s – J o u r n a l   a n d   C o n f e r e n c e   P a p e r s :

4.1   F. Siraj and **M. A. Abdoulha**, (2009). *Uncovering Hidden Information within University's Student Enrolment Data Using Data Mining*. Third Asia International Conference on Modelling & Simulation, Bali, 2009, pp. 413-418. **(26 Citation).**

4.2   **Alssager, M**., & Othman, Z. A. (2014). *Simulated annealing algorithm using iterative component scheduling approach for chip shooter machines*. Journal of Theoretical and Applied Information Technology, 65(2), 480-490. **Indexed in Scopus.**

4.3   **Alssager, M**., & Othman, Z. A. (2016a). *Cuckoo Search Algorithm for Capacitated Vehicle Routing Problem*. *Journal of Theoretical & Applied Information Technology, 88*(1). **Indexed in Scopus.**

4.4   **Alssager, M**., & Othman, Z. A. (2016b). *Taguchi-based Parameter Setting of Cuckoo Search Algorithm for Capacitated Vehicle Routing Problem.* In J. P. Soh, L. W. Woo, A. H. Sulaiman, A. M. Othman & S. M. Saat (Eds.), *Advances in Machine Learning and Signal Processing: Proceedings of MALSIP 2015* (pp. 71-79). Cham: Springer International Publishing. **Indexed in ISI.**

5 .   W o r k   E x p e r i e n c e   a n d   A c c o m p l i s h m e n t :

5.1   **Faculty dean**

Sep, 2018 – present

Faculty of Information Technology, Sebha University, Sebha, Libya:

My responsibilities as a dean include, but are not limited to:

- Coordinating the development of and implementing the faculty's Vision and Goals Statement, and leading faculty efforts toward achieving University goals;
- Leading, and coordinating college strategic planning and curriculum development;
- Supervising, evaluating, and supporting departments in a manner that promotes excellence in instruction, scholarly and creative productivity.
- Leading the processes of faculty administrator selection and overseeing the processes of faculty and staff selection and retention;
- Coordinating the professional development of faculty administrators and staff;
- Evaluating faculty administrators and staff;
- Evaluating overall departmental productivity in instruction, research, and service responsibilities.

5.2   **Senior lecturer**

Sep, 2017 – Sep, 2018

Faculty of Sciences, Sebha University, Tragen, Libya:

Thought undergraduate level several courses

5.3   **Graduate   research assistant**

Aug, 2016 – Jan 2017

Universiti Kebangsaan Malaysia, Bangi, Malaysia:

I supervise two under graduate students and one master student in their research in mining Malaysian weather data using aprori algorithm to extract association rules which used to discover hidden pattern and information.

Responsibilities:
- Conduct literature reviews
- Collect and analyse data
- Prepare materials for submission to granting agencies and foundations
- Provide ready access to all experimental data for the faculty researcher and/or supervisor

- Supervise undergraduate and graduate students working on the research project (maintaining records on assignment completion, acting as liaison/mediator between the undergraduate students and the faculty researcher)
- Attend project meetings
- Summarize project results
- Prepare other articles, reports, and presentations

5.4	**Full time Ph.D. Researcher**	**Universiti Kebangsaan Malaysia, Bangi, Malaysia:**

Sep, 2011- Jun, 2016

My main responsibilities as a Ph.D. candidate in Artificial Intelligence, in the field of optimization and data mining is to enhance metaheuristic algorithms component, I already develop a number of algorithms for this purpose, such as:
Nearest neighbour, clarke and wright saving algorithm, Simulated annealing, Great deluge, Hill climbing, Tabu search, Harmony search, Water flow alike algorithm, Genetic algorithm and Cuckoo search.

5.5	**Assistant Lecturer**	**Sabha University, Sabha, Libya:**

Aug, 2009 – Dec, 2010

Subject that I used to teach to undergraduate level:
- System Analysis and Design
- Software Engineering
- C++ programing language
- Java programing language

Responsibilities:
- lesson planning, preparation and research
- contact/teaching time with students
- checking and assessing students work
- encouraging personal development via tutorial/pastoral work
- invigilating examinations
- attending staff meetings
- liaising with other professionals/employers

5.6	**Part time senior software developer**	**Sabha University, Sabha, Libya:**

Mar , 2009 – Jul, 2010

I developed software for the department of botany, faculty of sciences, to change the process of collecting the botany samples to computerized process, whereby all the samples photographed and saved into the software.

Responsibilities:
- Reviewing current systems
- Presenting ideas for system improvements, including cost proposals
- Working closely with analysts, designers and staff
- Producing detailed specifications and writing the program codes
- Testing the product in controlled, real situations before going live
- Preparation of training manuals for users
- Maintaining the systems once they are up and running

5.7	**Senior software developer**	**Developed and maintained Student Administration System (SAS) for Sabha University, registrar office, Sabha, Libya:**

May, 2004 – Jul, 2007	Singlehandedly developed and deployed a SAS for the Registrar's Office. The SAS featured central rational database with multiuser interface in client-server architecture environment, and user access levels to organize all students registered data in the university since its establishment in 1976. The project was carried out with limited access to material, informational and technical resources. This project replaced the complex paper-based system, and was utilized by branches of fifteen colleges in two different countries: Libya and Chad. The program saved the university more time and resources, and was used until 2012.

The success of the aforementioned SAS led to an assignment by the Graduation Office at the College of Science Sabha to create a faculty-specific SAS with E-learning management functionality and graduation credentials verification features.

This project was developed by Pascal language using Borland Delphi 7 IDE and Interbase rational database.

Responsibilities:
- Same as mentioned in 5.4

5.8 Part time Graphics Designer	**Al-Ghad printing services, Sabha, Libya:**
May 2005 – Jun, 2007	Deliver a graphics design art work used in marketing communication and advertisements purposes, many of which were printed as poster, brochure, album cover and book cover. At the same time supervised and trained a junior graphic designer.

6 . R e s e a r c h   I n t e r e s t

- Artificial Intelligence
- Neural Network and Deep Learning
- Optimization and Heuristic Search
- Evolutionary Algorithms
- Timetabling and scheduling
- Data mining

7 . S k i l l s

7.1 Technical	Experience of using different Integrated development environment	Borland Delphi 7, Eclipse, Microsoft Visual Studio, NetBeans, Android Studio.
	Different programing language	C++, Java, Pascal, HTML, CSS, Android, JSON, Restful
	Different rational database management system	Microsoft SQL Server, MySQL, Microsoft Access, Oracle, Interbase, SQLite.
	Other	Statistical Analysis using R, SPSS, and Excel
7.2 Personal	Photography and Videography	Proficient usage of DSLR camera

Flickr.com/photos/Mansour-ly

| Photo editing and graphic designing software | Proficient usage of Photoshop, Light room and Illustrator |

8. Training Courses, Seminars, and Others Activities

8.1 Member of organizing and scientific committee of several conferences:

- The 1st international virtual conference on electronic learning, (23-Apr-2020), sebhau.edu.ly/el2020
- The 2ed international virtual conference on economic & politics, (20-Jun-2020), sebhau.edu.ly/ivcep2020

8.2 Head of organizing committee of the 3rd international conference on sciences and technology:
- The conference was held virtually on (15-Sep-2020), sebhau.edu.ly/icst2020

8.3 Member organizing and scientific committee of Sebha University Award for Scientific Excellence: (15-Nov-2021), sebhau.edu.ly/suase2021

8.4 Workshop on systematic literature review using Atlas.ti. 29, Sep, 2016. The UKM Graduate Centre, UKM.

8.5 Workshop on building a websites with Joomla content management system. 16-17, Jun, 2008. University teaching and learning centre, UUM.

8.6 Workshop on applying data mining technique using enterprise miner. 12-14, Aug, 2008. Instructor is Associate prof. Fadzilah Siraj.

8.7 Workshop on scientific research, the base of future. 10-15, Sep, 2005. Second national week of science and technology, National office of research and development.

9. Professional Research Experience

9.1 The 3rd International Multi-Conference on Artificial Intelligence Technology (M-CAIT 2016), Malacca, Malaysia on 23-24, Aug, 2016.
Role: Session chairperson (3:30-5:00 pm, 23, Aug, 2016)

9.2 Project name: Advanced nature inspired computing for spatio-temporal climate change prediction analysis using Klang valley rainfall data
Project code: AP-2013-007
Amount: 2000RM
Role: Graduate research assistance

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9.3   Insertion based construction heuristic with cuckoo search metaheuristic for capacitated vehicle routing problem
Duration: Sep, 2011-Dic, 2014
Sponsor: Libya's People's Bureau Fund
Amount: 60.000 RM
Role: Fellowship

10. Volunteer Experiences

Computer basic skills tutor   Teaching disabled peoples in my home town Sabha, Libya.

May, 2005 – Jun, 2005

11. Language

English	Very good in writing reading and speaking
Arabic	Mother tongue, Excellent in Reading, Writing and Speaking
Bahasa Melayu	Passed University Kebangsaan Malaysia two subjects (*1,2*)

12. Hobbies

- Reading
- Photography
- Hiking
- Outdoors activities

13. References (On Request)

13.1 Associate Prof. Dr. Zulaiha Ali Othman

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13.2 Prof. Madya Fadzilah Bt Siraj

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