Curriculum Vitae

Assistant Professor
Department of Mathematical and Physical Studies
College of Arts and Sciences
University of Nizwa, Sultanate of Oman

Personal Information
Name: Alaa "Mohammed Ali" Wadi Al-Obaidi
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Academic Qualifications
-PhD Computer Science, Faculty of Computer Science and Information Technology, University of Malaya, Kuala Lumpur, Malaysia   "**An Approach to Modelling and Simulating Multithreaded Schedulers for Divide and Conquer Problems on Multicore Architecture**"   -M.Sc Computer Science, Basrah University, Iraq.   "**A Software Tool for Designing Systolic Arrays**"   -B.Sc Computer Science, Basrah University, Iraq.

Teaching Activities
1-Introduction to Algorithm and Programming using C Language.
2-Object Oriented Programming using C++ Language.
3-Data Structure using C++.

4-Algorithm Design & Analysis.

5-Formal Languages, Finite Automata and Computation Theory.

6-Theory of Computation (for Master Program)

7-Compilers Design.

8-Database with SQL.

9-Digital Logic Design.

10-Computer Architecture and Assembly Language.

11-Computer Organization.

12-Software Engineering.

13-Operating Systems.

14-Java Programming Languages.

15-Web Languages: HTML.

16-Computer Skills (University Requirements).

17-Introduction to Computer (for High Diploma Students)

18-Pre-Computing (for the Foundation Year).

19-Pre-Mathematics (for the Foundation Year).

20-ICDL (International Computer Driving License) Courses.

21-IC3 (Internet & Computing Core Certificate) Courses.

Working Experience

-2015 – Now: Assistant Professor at the Computer Science Section, Department of Mathematical and Physical Sciences, College of Arts and Sciences, University of Nizwa, Sultanate of Oman.

-2004 – 2008: A full-time lecture at the Computer Science Section, Department of Mathematical and Physical Sciences, College of Arts and Sciences, University of Nizwa, Sultanate of Oman.

-April-Sep 2004: A full-time lecture at the Higher College of Technology (HCT), Muscat, Sultanate of Oman.

-1997 – 2002: A full-time lecture at the Computer Science Department, College of Information Technology, University of Al al-Bayt, Jordan.

-1996 – 1997: A full-time lecturer at the Computer Department, Shat Al-Arab University College, Basrah, Iraq.

Research Activities

Research Interests

-Developing and modelling algorithms that suit multicore environment.

-Designing and analyzing concurrent models by using colored petri nets.

-Functional languages.

Conference Presentations & Attendance

-Participating Annual College General Workshop, College of Arts and Sciences, University of Nizwa.

Workshop Title: Mass mailing and managing class for online Education, October 2021.

-Participating Annual College General Workshop, College of Arts and Sciences, University of Nizwa.

Workshop Title: Mass mailing and managing class for online Education, October 2020.

- The International Conference on Computer and Communication Engineering (ICCCE 2012), Kuala Lumpur, Malaysia, 2012.

- The 2nd International Conference on Software Engineering and Computer Systems, University Malaysia Pahang, Malaysia, 2011.

Publications

1-**Alaa M. Al-Obaidi** and Lee Sai Peck, "A Proposed Petri Nets Model for Updating XML Documents on a Multicore Architecture,". in the 2009 International Conference on Computer Engineering and Applications (ICCEA **2009**). 6- 8, June 2009. Manila Philippine. Volume 21 of the IACSIT Serial Conferences. (indexed by Nielsen, Thomson ISI (ISTP), IACSIT Database, British Library and EI Compendex).

2-**Alaa M. Al-Obaidi** and Lee Sai Peck, "A Concurrent Multithreaded Scheduling Model for Solving Fibonacci Series on Multicore Architecture," International Journal of Advancements in Computing Technology, vol. 3, pp. 24 - 37, **2011**. (SCOPUS Cited Publication).

3-**Alaa M. Al-Obaidi** and Lee Sai Peck, "A Concurrent Colored Petri Nets Model for Solving Binary Search Problem on a Multicore Architecture," in The 2nd International Conference on Software Engineering and Computer Systems, University Malaysia Pahang, Malaysia, **2011**. (ISI/SCOPUS Cited Publication).

4-**Alaa M. Al-Obaidi** and Lee Sai Peck, "A Concurrent Multi-Stealing Scheduler Model for Divide and Conquer Problems," Malaysian Journal of Computer Science, vol. 25, (4), pp. 177-195, **2012**. (ISI/SCOPUS Cited Publication).

5-**Alaa M. Al-Obaidi** and Lee Sai Peck, "A Multithreaded Scheduling Model for Solving the Tower Of Hanoi Game in a Multicore Environment," Maejo International Journal of Science and Technology, vol. 6, pp. 282-296, **2012**.(ISI/SCOPUS Cited Publication).

6-**Alaa M. Al-Obaidi** and Lee Sai Peck, "A Partial Multi Stealing Scheduling Model for Divide and Conquer Problems," in International Conference on Computer and Communication Engineering (ICCCE 2012), Kuala Lumpur, Malaysia, **2012**, pp. 153-157. (SCOPUS Cited Publication / IEEE Xplore).

7- Taiba Al Salmi, Emdad Hossain, Sallam Fageeri and **Alaa Al-Obaidi**, "Facial Expression to Analyze Human Mindset," in International Journal of Engineering and Information Systems (IJEAIS), Vol. 6 Issue 2, pp: 49-56, February **2022**.

8-Al Ajmi, S. A., Hayat, K., **Al Obaidi, A. M**., Kumar, N., Najim AL-Din, M. S., & Magnier, B. (**2024**). Faked speech detection with zero prior knowledge. Discover Applied Sciences, 6(6), 288.

Faculty Administrative Experience

Head/Member of Committees

-Member of Curriculum Committee (Department Level), University of Nizwa.

-Member of College Web Page and Multimedia Committee (College Level),College of Arts and Sciences, University of Nizwa.

-Member of Exam Committee (Department Level), University of Nizwa.

Supervisor / Co-Supervisor of Thesis

-A Co-Supervisor of a master thesis of a MSc student Sahar Abdullah Sulaiman Al-Ajmi. Thesis title: Blind Voice Mimicry Detection for Audio Forensics. University of Nizwa. College of Arts and Sciences, Department of Mathematical and Physical Sciences, March 2022.

Examiner

- An external examiner for a master thesis of a MSc student Taiba Yousef Adeem Al-Salmi. Thesis title: Predicting State of Mind by Using Facial Expression. University of Nizwa. College of Economics, Management & Information Systems, Information System Department, 2022.

- An external examiner for a thesis defense (VIVA). A master student Mr.Alwaleed Suliman Al Abri. Thesis title: The Acceptance of M-learning in Omani Undergraduate students: University of Nizwa Student as Case Study. University of Nizwa. College of Economics, Management & Information Systems, Information System Department, July 2018.

- An external examiner for a master thesis of a MSc student Ms. Afraa Saif Rashid Al Zidi. Thesis title: Smart Solution for Traffic Congestion Caused of Vehicle Accidents by Analyzing Royal Oman Police (ROP) Data using Data-mining (DM). University of Nizwa, College of Economics, Management & Information Systems, Information System Department, April 2018.

- An external examiner for a master thesis of a MSc student Ms. Amal Al Hatali. Thesis title: Factor Analysis Of Price Variation In Omani Fish Market Using Data Mining. University of Nizwa, College of Economics, Management & Information Systems, Information System Department, March 2018.

Reviewer

- Al-Mukhtar Journal of Sciences. DOI: https://doi.org/10.54172/issn.2617-2186