Almahdi Alshareef

Department of computer science
Faculty of Information Technology
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Education

PhD in Computer Science
Faculty of Science and Information
Technology
National University Malaysia , UKM
Advisor : Prof. Dr. Azurlize Abu Bakar

Des 2008 - Jan 2013
Thesis Defence : Des 2012

**Msc. Computer Science , Intelligent
System**
School Of Computing
University Utar Malaysia, UUM

July 2005- July 2006
Degree Received : Sept 2006

Bs Computer Technology ,
Programming and System Analysing
Sebha High Institute Libya

March 1995- Nov 1998
Degree Received 1999

Coursework

- Data structure and algorithm
- Software Engraining
- Data Base
- C++ Programming

- Introduction to computer
  programming
- Introduction to computer fundamental
- Oriented Object Programming (c++)
- Data Mining

Technical Skill

Languages : C++, java , Prolog , HTML, UML , PBMN
Operating System : Microsoft Windows

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Data Base : My SQL , MS ACCESS
Software Tools: Weka , Matlab , R, SPSS, SAS

Work Experience

University of Sebha   **Jan 2007-**
Assistant Professor

Working as Assistant Professor at computer science department , University of Sebha,
Taught the following undergraduate during the past five years :
1) Data base
2) Software engineering
3) Introduction to computer programming
4) C++ Programming
5) Data structure and algorithms
6) C++ and Oriented Object Programming

I have supervised seven senior projects , currently, I am supervising two projects . One of my
supervised senior project 'An attendance system using eye recognition system ' won the third
prize at the third Competition for the best graduating students of higher education institutions
in Libya Research 2008.

Additional responsibilities

1) IT project director of Sebha University (informatics development project)
2) Member of the Committee to develop the Faculty of Information Technology
   Curriculum
3) Member of the Committee to develop Information Technology Centre at the
   University of Sabha

National University Malaysia   **May 2013- May 2014**
Faculty of science and information
technology
Postdoctoral

Worked in Data Mining and Optimization research group "DMO", at Centre of Artificial
Intelligence Technology of UKM - FTSM. Worked on weather data "rainfall data in
Malaysia "to enhance methods of patterns discovery on rainfall data.

I have supervised one undergraduate senor project "Development of visual data mining
system based on Discovered Rainfall Patterns "

I have taught one undergraduate course during that year 2013-2014 "introduction to computer

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fundamental for first year bachelor.

Sebha High Institute   **Aug 2001 – Nov 2004**
Department of Computer technology
Lecturer

Worked as lecturer at computer technology department , High Institute of Sebha, during this period taught the following undergraduate:

1) Pascal programming LAB
2) Data structure and algorithms LAB

Research

My primary research interest is in the area of time series data mining and machine learning algorithms. New algorithms for mining time series are constantly being developed by researchers around the world and are playing an increasingly important role in society. The increasing reach of this domain is making the demands on the mining of such data more stringent than ever. Time series data occurs every second, every minute, hourly and daily in several applications. It amounts to massive volumes of data stamped with time, and this time aspect is one of the essential features of many types of real-life data that people want to use to predict movements or trends. The areas that have occupied the attention of most time series data mining researchers are classification, clustering, detection and rule discovery, which is making the building of new algorithms ever more challenging.

The general goal of my own research is investigating the principles underlying the implementation of artificial intelligence (AI) algorithms for mining time series. I am particularly interested in how we can build a reliable approach using unreliable data mining techniques and how AI algorithms based on offline knowledge (time series data) can derive and forecast (detect) future information based on an online approach such as time series representation, classification, and pattern discovery. These are the central questions that drive most of my research activities. Real-world time series applications are complex, so answering these questions requires careful implementation that attends to the details of real-world scenarios. I also use theoretical analysis and simulation that allows exploration of design parameters in wider ranges and in isolation, and this helps me to better understand the impact of each parameter on the observed behaviour of the time series applications.

Publications

1) Sequential Pattern Discovery for Weather Prediction Problem Almahdi Alshareef · Azuraliza Abu Bakar · Abdul Razak Hamdan · Chapter , springer· Jan 2016.
2) Adaptive sliding window algorithm for weather data segmentation Y. BenYahmed · A. Abu Bakar · A. RazakHamdan , Article · Oct 2015.

3) A case-based reasoning approach for pattern detection in Malaysia rainfall data Almahdi Mohammed Alshareef · Azuraliza Abu Bakar · Abdul Razak Hamdan · Article · Aug 2015.
4) Sequential Pattern Discovery Algorithm for Malaysia Rainfall Prediction, A.M. Ahmed · A.A. Bakar · A.R. Hamdan, Article · Aug 2015 · Acta Physica Polonica Series a.

5) Mining Survey Data on University Students to Determine Trends in the Selection of Majors, Almahdi Alshareef · Salem Ahmida · Azuraliza Abu Bakar, Conference Paper · Jul 2015.
6) Pattern discovery algorithm for weather prediction problem, Almahdi Alshareef · Azuraliza Abu Bakar · Abdul Razak Hamdan , Conference Paper · Jul 2015.
7) Toward a student information system for Sebha University, Libya Almahdi Alshareef · Azuraliza Abu Bakar. Conference Paper · May 2015.
8) Pattern discovery using k-means algorithm, Almahdi Mohammed Ahmed · Wan Hussain Wan Ishak · Norita Md Norwawi · Ahmed Alkilany. Conference Paper · Oct 2014.
9) Application of the k-means clustering algorithm to predict load shedding of the Southern Electrical Grid of Libya. Ahmed Alkilany · Almahdi Ahmed · Hammad Said · Azuraliza Abu Bakar ,Conference Paper · Aug 2014.
10) A Harmony Search Algorithm with Multi-pitch Adjustment Rate for Symbolic Time Series Data Representation. Almahdi M. Ahmed · Azuraliza Abu Bakar · Abdul Razak Hamdan. Article · Jun 2014
11) Discovering frequent serial episodes in symbolic sequences for rainfall dataset. AlMahdi Ahmed · Azuraliza Abu Bakar · Abdul Razak Hamdan · Conference Paper · Sep 2012
12) Harmony Search algorithm for optimal word size in symbolic time series representation Almahdi Mohammed Ahmed · Azuraliza Abu Bakar · Abdul Razak Hamdan. Conference Paper · Jun 2011
13) Discretization of Time Series Dataset Using Relative Frequency and K-Nearest Neighbor Approach. Azuraliza Abu Bakar · Almahdi Mohammed Ahmed · Abdul Razak Hamdan . Conference Paper · Nov 2010.
14) Improved SAX time series data representation based on Relative Frequency and K-Nearest Neighbor Algorithm. Almahdi Mohammed Ahmed · Azuraliza Abu Bakar · Abdul Razak Hamdan. Conference Paper · Nov 2010
15) Dynamic Data Discretization Technique based on Frequency and K-Nearest Neighbour algorithm. Almahdi Mohammed Ahmed · Azuraliza Abu Bakar · Abdul Razak Hamdan. Conference Paper · Oct 2009.
16) Identifying student and organization matching pattern using Apriori algorithm for practicum placement. Almahdi Mohammed Ahmed · Norita Md Norwawi · Wan Hussain Wan Ishak. Conference Paper · Sep 2009.

References

1. Prof. Dr. Ibrahim Eshnaf
   Professor
   University of Sebha
   Email : ibr.eshnaf@sebhau.edu.ly

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2. Prof. Dr Azuralza Abu Bakar ,
    Deputy dean
    Research and innovation
    Faculty of technology and information science ,
    UKM Malaysia
    Email:azuraliza@ukm.edu.my

3. Prof. Dr Norita Mid Norwawi
    Head of depertmant computer science,
    faculty of science,
    University science Islam Malaysia ,
    Email : norita@usim.edu.my