

CURRICULUM VITAE

Majed Bouchahma

CONTACT INFORMATION

Address: Rustaq College of Applied Sciences,
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Status: Married
Birthdate and Place: 01/08/1982, Djerba, Tunisia



EDUCATION AND EMPLOYMENT INFORMATION

Education

2009-2012 Ph.D, SFC Keio University, Japan

Ph.D Subject: Development of an integrated Web GIS framework for coastal management in the island of Djerba.

2008-2009 M.Sc on Computer Science, Higher Institute Of Computer Science, Tunis El Manar University, Tunisia Master Subject: Automatic optical system to detect defects on Printed Circuits Board.

2005-2008 B.Sc On Computer Science, Higher Institute Of Computer Science, Tunis El Manar University, Tunisia .

B.Sc Subject: Development of a web application to detect defects in circuit boards (ASP.NET and MySQL).

2002-2005 Diploma of Technology – Major in Computer Science Higher Institute Of Computer Science, Tunis El Manar University, Tunisia.

Subject: Development of a web based Commercial Management System Using Struts framework.

Employment

Teaching

Head of Major Software Development: September 2015-Present
IT Department, College of Applied Sciences of Rustaq, MoHE Oman.

Assistant Professor: September 2013-Present
IT Department, College of Applied Sciences of Rustaq, MoHE Oman.

Lecturer: September 2011-August 2013
Computer Science Section, College of Arts & Sciences, University of Nizwa Oman.

Teaching Assistant: September 2010-January 2010
Keio University Oman.

Industry

System Engineer: 2009-2011 **Kyodo News Japan**, Media Lab. (www.kyodonews.jp)

Role: - Development and Integration of web applications
- Maintenance of the websites (kyodonews.jp and 47news.jp)

Information System Engineer & SAP Administrator: 2008-2009 **Valeo Thermal System Japan**,
Information System Department (www.valeo.co.jp)

Role: -Management and Integration of SAP Modules.
-Development of SAP Modules
-BI7 Reports design

SERVICES

University service and administration

- Head of The Software Development Major, IT Department, College of applied sciences Rustaq, Oman
- Reviewer in the Final Exam committee, Colleges of Applied Sciences, MoHE Oman
- Member of the new degree plan development, Colleges of Applied Sciences, MoHE Oman
- Member of the recruitment committee for the Colleges of Applied Sciences, MoHE Oman
- Computer Graphics course Coordinator for the 5 Colleges of Applied Sciences, MoHE Oman
- Member of the new degree plan development, Computer Science Section, University of Nizwa

Public service

- **Training mission:** Conducted a workshop for the local community in Rustaq **introducing website development using Joomla CMS**
- **Coaching mission:** Coached Students in different competition in Sultanate of Oman to develop Software Application interacting with Arduino Shield.

Professional service and scholarly activities

- **From 2014** Reviewer for the Arabian Journal of Geosciences, Springer
- **2015** Organizing Committee (Scientific Committee) of the 1st National Symposium on Frontiers in Information Technology: Business Intelligence and Analytics

GRANTS AND CERTIFICATES

- **2015** Supervisor for a **FURAP** project; **Grant from TRC Oman, A web based framework for medical herb recognition.**
- **2012** Certificate of Senior Environmental Innovator, SFC Keio University Japan
- **2009** MEXT Scholarship Grant for Ph.D (2 Years and 6 Months), Japan
- Preparing for the ISO/IEC 27001 - Information security management Certification.

TEACHING

Courses Taught

1. Introduction to web development
2. Web Development
3. Internet Technology
4. Advanced Web Development
5. Web Application Development
6. Application Software Development
7. Advanced Database Development Using Oracle
8. Programming Fundamentals
9. Software Project B
10. Computer Graphics
11. Introduction to Security
12. Information Security Management
13. Cyber Security
14. Ethical Hacking and Network Defense
15. Innovations in Networks and Security
16. Software Project A
17. Computer Skills
18. Unix Programming Environment
19. Software System Development
20. Software Engineering

B.Sc. Final Year Project Supervision

1. Web Based Claims Management System for the public authority of consumer protection , Rustaq (PHP, MySql)
2. College Smart Control System Using Arduino Microcontroller (Arduino, PHP)
3. Content Management System for Android Application (PHP, Android)
4. Android Application for Oman News Papers ((PHP, Android)
5. University Of Nizwa Android Application (PHP, Android)

RESEARCH

Research Areas: Software Engineering , Web Technologies, Web Development, Computer Vision, Image Processing, Artificial Intelligence, GIS, Remote Sensing,

Journal Papers

- J-1. **Majed Bouchahma**, Wanglin Yan : Monitoring shoreline change on Djerba Island using GIS and multi-temporal satellite data. *Arabian Journal of Geosciences* Vol.7 Iss.9, 2014, pp: 3705-3713
- J-2. **Majed Bouchahma**, Wanglin Yan and Mohammed Ouessar: Island coastline change detection based on image processing and remote sensing. *Computer and Information Science* Vol. 5 Iss.5, 2012, pp:27-36
- J-3. **Majed Bouchahma**, Wanglin Yan: Automatic measurement of shoreline change on Djerba Island of Tunisia. *Computer and Information Science* Vol. 5 Iss.3, 2012, pp:17-24
- J-4. **Majed Bouchahma**, Mohsin Jan Al Balushi, Sheikha Nasser Khalaf Al-Housni and Hamood AlWardi, A web based decision aid system for Omani medical herb leaves recognition using computer vision and artificial intelligence, submitted to the *International Journal of Information and Decision Sciences*.
- J-5. **Majed Bouchahma**, Walid Barhoumi, Wanglin Yan, Hamood Al-Wardi, A Web Application for an optical flow-based approach to detect shoreline changes , submitted to *Machine Vision and Application Journal* (Springer).

Conferences

- C1- **The 2016 International Conference on Decision Aid Sciences and Applications**, **Majed Bouchahma**, Mohsin Jan Al Balushi, Sheikha Nasser Khalaf Al-Housni and Hamood AlWardi, A Web Based Decision Aid System for Omani medical herb leaves recognition using computer vision and artificial intelligence, 18th -20th July 2016, Hammamet, Tunisia
- C2- **IEEE 20th International Conference on Geoinformatic2012 proceeding** **Majed Bouchahma**, Wanglin Yan Long-term coastal changes detection system based on remote sensing and image processing around an island, 15-17 June 2012 , Hong-Kong, pp:1-5.
- C3- **GeoTunis 2010** Oral Presentation: coast line changes monitoring based on remote sensing and computer vision techniques in the Island of Djerba, Tunisia.

MEMBERSHIP ACTIVITIES

- Member of the research unit EcoGIS, Keio University Japan
- Member of the research unit SIIVA (Intelligent System for machine vision), El-Manar University Tunisia

SKILLS

- Programming Languages: Pascal, C/C++,Java, C++.NET,C#.NET,VB,VB.NET, PL/SQL, SAP ABAP, MATLAB, Perl.
- Web Programming: Struts, JSF, Java Script, PHP, ASP, JSP, ASP.NET, XML, Joomla CMS, CakePHP framework.
- DBMS: Oracle, MySQL, PostgreSQL, Microsoft SQL Server, Lotus Notes.
- Design: UML, MERISE .
- Programming Environment: Microsoft Visual Studio 2005/2008/2012, NetBeans, Eclipse, IBM Websphere System Application Developer, JBuilder10 ,SAP Workbench
- ERP Systems: SAP, Openbravo, TinyERP, Open ERP.
- GIS Systems: ArcGIS, OpenGIS, GRASS GIS

Projects

- Commercial Management System C#.NET, MySQL
- Automatic optical inspection system to detect defects in printed circuit board C#.NET, MySQL
- Web sites developed or I have been part of the development team:
 - www.jawad.jp
 - www.bestchoiceceramic.com
 - www.47news.jp
 - www.kyodonews.jp
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- Content Based Image Retrieval System ,Rakuten Co. Japan
- Facebook Application to publish stories Perl, PHP; Kyodonews Japan
- Library Management System ASP.NET Microsoft SQL Server
- Distributed Application for object matching in videos C#.NET, SharperCV.
- Management teams and projects
- Conceptualization and storyboarding educational content online (Mooc, and e-learning platforms)
- Clinic Management System (ASP.NET and SQL SERVER).

Languages

- Arabic: Native language
- French: Bilingual
- English: Fluent (speaking, reading, writing)
- Japanese: Intermediate