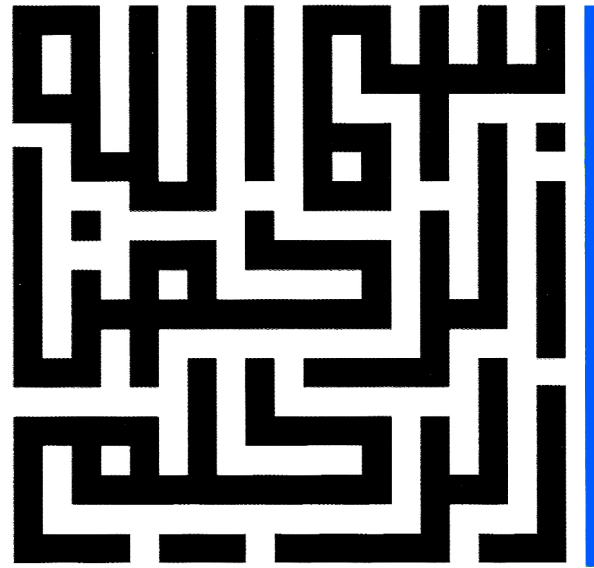Umm Al-Qura University
University College – Jamoum
Computer Dept.

Department Guide Book

In the Name of Allah,
the Most Gracious, the Most Merciful

Table of Contents

1. Preface

The University College in Al-Jamoum was established in the year 1976 with nine departments. The Computer Science Department, which is shortly named (CSJ Dept.), is one of these departments. The CSJ Dept. offers a five-year full-time Bachelor in Computer Sciences program and has two branches: one for male and the other for female.

2. The Department Organizational Structure

The organizational structure of the computer science department is shown in figure 1.

- The Computer Science Department Council
- The Department Chair
- Department Committees
- Faculty members

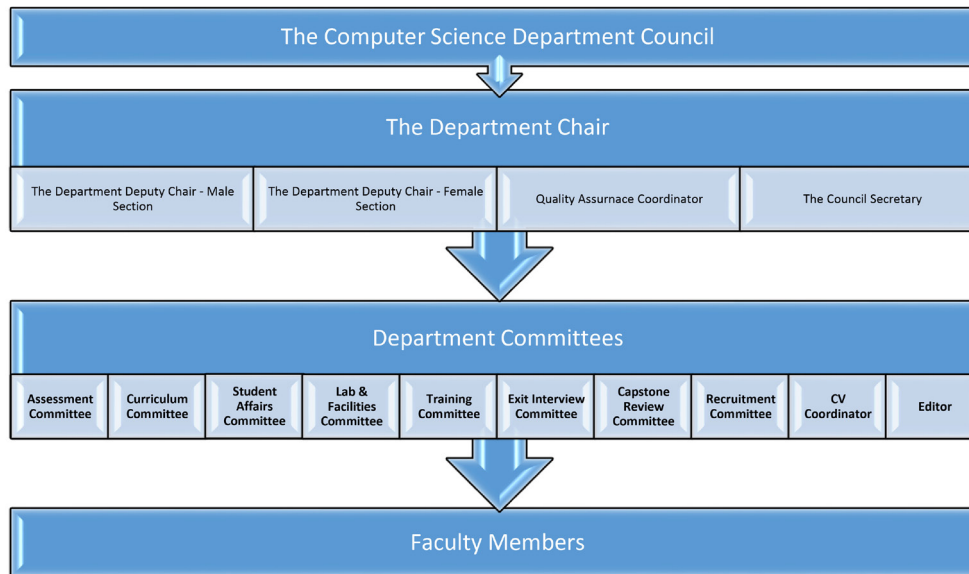Figure 1 illustrate the organizational structure of the computer science department

Figure 1. Computer Science Department Structure

2.1. Department Council

The department council, which is headed by the department chair and consists of all faculty members in the department, manages the program. Therefore, all faculty members take part in any discussion related to the program. Most of the faculty members are located at the Male section, and video conferencing is usually used to hold department council meetings jointly with faculty members at the Female section. There are two deputy chairs: one in the male section and the other in the female section, and they assist by managing day-to-day issues.

2.2. Department Chair

The chair is a member of the college council, which is headed by the college dean, and meets to discuss issues related to all college programs that need to be reported to the college or university administration.

The department chair is appointed by the university on the recommendation of the college dean. The position is held for two years, and is renewable every two years.

The dean is a member of the university council, which is headed by the university rector, and meets to discuss issues related to all university programs that need to be reported to the university administration or to bodies outside the university, such as the Ministry of Education.

The department leadership consists of the department chair and the department council (which includes all faculty members). The department chair is the head of the department council, which is responsible for taking decisions relating to the curriculum, faculty and staff appointment, teaching load distribution and faculty research and professional development activities.

2.3. Department Deputy Chair

The department Deputy chair is appointed by the university on the recommendation of the college dean. The position is held for two years, and is renewable every two years.

A deputy chair may attend the college council if the department chair is unavailable. Also the department chair may delegate some of his duties to the department deputy chair.

2.4. Quality Coordinator

Department chair appoints the quality coordinator among department faculty members to a faculty member who have a good experience in quality assurance processes.

Quality coordinator coordinates the analysis of gathered data, develops of adequate corrective actions where needed, and plans for their implementation. He also reports on the program's overall quality based on gathered data. Additionally, he prepares for external accreditation documentation, requirements and procedures.

2.5. Committees

The department council has several internal committees to manage various academic and administrative tasks of the program. The department council decides the structure of the committees and faculty members assigned to them.

2.6. Community Service Activities

The department council attempts to select committee members such that there is a representative from each campus to maintain strong coherency between campuses. The duties of major departmental roles and committees are summarized below.

- **Assessment Committee: The main responsibilities of this committee are:**
  - Determining methods and instruments used for assessing the quality of the program.
  - Coordinating the analysis of gathered data, development of adequate corrective actions where needed, and plans for their implementation.
  - Reporting on the program's overall quality based on gathered data.
  - Preparing for external accreditation documentation, requirements and procedures.

- **Student Affairs Committee: The main responsibilities of this committee are:**
  - Assigning students to advisors.
  - Training new faculty in the delivery of academic advising services.

- Preparing and distribute materials to assist advisors in providing correct information to students regarding registration procedures, academic regulations, and graduation requirements.
- Developing student appeals/complaints procedures.
- Ensuring student complaints are resolved fairly, consistently, and immediately.
- Advising the department council on managing appeals.

- **Curriculum Committee: The main responsibilities of this committee are:**
  - Reviewing the main developments of computer science curricula at leading international universities, institutions, suggestions from faculty, etc., and suggesting updates to the program.
  - Reviewing changes in the job market and suggesting updates to the program.
  - Providing assistance to external departments if their programs include computing courses.
  - Studying the prerequisite violation requests.

- **Lab & Facilities Committee: This committee reports to the department council, and its main responsibilities are:**
  - Monitoring departmental facilities including safety, furniture, computers, network access, and any other equipment in labs, offices, and other spaces to assess their adequacy for the program.
  - Monitoring college and university library to assess their adequacy for the program.
  - Maintaining a detailed record of the facilities available to the department.
  - Reporting on any weaknesses in available facilities and suggest corrections.

- **Training Committee: The main responsibilities of this committee are:**
  - Serving as the portal to the Computer Science department for industrial contacts.
  - Broadening the relationship between industry and the department and to foster collaborative projects, cooperative education links, and graduate recruitment opportunities.
  - Coordinating with industrial organizations to offer seminars to students on job opportunities.
  - Organizing External Advisory Board meetings.

- **Exit Interview Committee:**

This committee meets graduates (just before graduation) to conduct an exit interview in order to discuss with them different educational, professional and career advising issues. Part of the interview is a written survey that is analyzed and reported to the department council.

- **Capstone Review Committee: This committee shall be responsible for:**
    - Reviewing capstone project applications with respect to the department rules and regulations.
    - Assigning the supervisor and evaluation committees for each project.

- **Recruitment Committee: This committee reports to the department council, and its main responsibilities are:**
    - Gathering information on manpower requirements in the department.
    - Organizing suitable job advertisements posted in reputable places.
    - Shortlisting applicants and arranging interviews with potential candidates.

- **CV Coordinator:**

This coordinator responds to the department council, and the main responsibilities include:
    - Developing the research strategy of the department.
    - Assessing and reporting the research performance of each faculty member.
    - Quantifying teaching load relief for researchers based on the abovementioned reports.

- **Editor:**

   Member of the assessment committee who reviews and edits draft and final statements of the program SSR and its attachments and related documents.

2.7. External Advising Board

   The program is offered full-time/day using traditional lectures/laboratories and other class

activities such as discussion, projects, workshops, etc. Some lecture classes are given via live video conferencing if the instructor is on a different campus to the students especially in female section. The university provides and maintains specialized facilities for this purpose.

The University considers student advising by faculty as an important teaching-related activity. The department policy for advising students is mixing between central and distributed advising systems. Therefore, a faculty member is assigned to a student for the duration of the student's enrollment with the program. In addition, a central advising committee is assigned to guide and advice all students in the beginning of each semester. The faculty members advise students in planning academic progress during registration and throughout the academic year whenever a student seeks his advisor›s input in academic matters. Moreover, the department will arrange "A Day of Career Fairs" in the fall according to the recommendation of the external advisory board.

3.Teaching Staff

The computer science department consists of distinguished faculty members who are highly qualified for academic work. Many of them obtained their Ph.D. from highly ranked schools in North America, Europe, Japan, and Australia. Faculty members came from a wide variety of backgrounds and bring experience from education, research, and industry.

The university supports the college with a generous share of the available teaching assistant positions. In addition, the university also provides resources to the college to hire non-Saudi master' holders as teaching assistants with the «lecturer» title, and Bachelors and Masters holders as research assistants. The university also allows departments to hire part-time teaching faculty and assistants on a per-semester basis with the approval of the university Permanent Committee for Collaborators. The university has made outstanding progress not only in increasing the quantity of its faculty and staff but also in enhancing the quality. It provides opportunities to faculty for personal and professional development through workshops, including teaching workshops, offered regularly by the Deanship of University Development and Quality, and by encouraging faculty members to attend international conferences or training workshops abroad.

Administrative and technical staff members are recruited based on the college's nomination.

Currently, the computer science department has two administrative staff, 12 lecturers, 15 teaching assistants (excluding those on leave for graduate studies) and one technician. The Deanship of Faculty and Staff Affairs, which also provides all personnel services for the university, centrally manage the majority of faculty and staff employment processes.

The recruitment processes are unified across the university. Job announcements and interviews are performed at the department level. Decisions and recommendations are then reported to the Deanship of Faculty and Staff Affairs through the college dean. Positions are publicly advertised in local newspapers, the university website, and international newspapers and websites. The advertisements include the job title, application procedures, and selection criteria.

For hiring Saudi teaching assistants and lecturers, committees at the department level report their recommendations to the department council for approval, then to be approved by the college council. The final decision is made by the Committee of Teaching Assistants and Lecturers headed by the Vice Rector for Graduate Studies and Research. The same procedures are followed for the recruitment of assistant professors and higher academic ranks, except that the final decision of employment is made at the university scientific council.

The Ministry of Higher Education's criteria for performance evaluation requires the department council to weight a faculty member's contribution towards research (65%), teaching (25%), and administration (15%). Faculty members who teach their full load will receive overtime compensation. In addition, faculty members whose research is published in highly-ranked international journals are financially rewarded by the university. Faculty members who publish in conferences are supported to go and present their research.

4. Teaching Plan and Activities

The department chair and council have played a key role in promoting departmental interests at the college and university levels. They have created a productive environment to facilitate the department's teaching and research.

Career and personal development at the college and the university provide faculty with opportunities to build productive and satisfying careers while contributing to the achievement

of the university's mission. The university has established a Deanship of University Development and Quality that plays a major role not only in organizing workshops and seminars, but also in identifying the staff needs and setting strategies to meet those needs.

5. Research Activities

UQU Saudi faculty members are eligible for one semester sabbatical leave every three years or one year every five years. Applications for sabbatical leave (research plan and its budget) should be submitted to the department 46- months prior to the end of the academic year for approval by department council, college council and then by the university scientific council. Requests are granted based on the application quality and strength, as well as the substitution availability of the existing faculty to fully cover the teaching process. Faculty members should deliver at least one research article during their sabbatical leave.

Many are active researchers in their scientific fields and authors of high-quality research papers published in reputable international journals and conferences. Some of them have research projects funded by different funding organizations such as the Institute for Scientific Research at Umm Al-Qura University, and King Abdul-Aziz City for Science and Technology (KACST).

5.1. Research Themes
- Artificial Intelligence
- Networks & Communications
- Image Processing
- Software Engineering
- Data Mining
- Operational Research

5.2. UQU Projects
- Standalone Tomography System for Monitoring the Multi-phase Flow in Oil Pipelines, PI: Wael Deabes, Budget 112,800 SAR

- Biologically-Inspired Artificial Neural Networks and its Application in Sound Recognition, PI: Hesham Hamid, Budget 106,600 SAR
- A novel Approach for 3D Mesh Parameterization and Reconstruction using wavelet network, PI: Mohamed Othmani, Budget 76,300
- An online automatic system to estimate and predict the holy mosques crowd to manage potential risks, Co-PI: Abdel-Rahman Hedar, Gamal Elsayed, Alaa Abdel-Hakim, Budget 230,000 SAR
- Design parallel meta-heuristics for graph domination problems, PI: Abdel-Rahman Hedar, Budget 144,400
- Development of a web application for the services of the Holy Quran and Its related sciences targeting blind, handicapped, and illiterate categories of people Observer based control of Networked Control System, PI: Kheir Eddine Bouazza, Budget 88,400
- Air Quality Index for KSA, PI: Majid Almaraashi, Budget 150,000 SAR

5.3. KACST Projects
- Wireless Portable Tomography (WiPot) System for Monitoring the Multi-phase Flow in Oil-Gas Pipelines, PI: Wael Deabes, Budget 1,900,000 SAR
- Parallel Meta-Heuristics Toolbox for Continuous Global Optimization, PI: Abdel-Rahman Hedar, Budget 1,600,000 SAR
- Energy Saving Using Cloud-Based Supervisor Wireless Network Control System for Smart Environment, PI: Kheir Eddine Bouazza, Budget 1,650,000 SAR
- An Environmental-Friendly Intelligent Transportation System by Controlling Traffic and Reducing Congestion in Urban Segments, PI: Kheir Eddine Bouazza, Budget 1,900,000 SAR
- Short-Term Solar Radiation Prediction over Saudi Arabia using Numerical and Intelligent Systems, PI: Majid Almaraashi, Budget 1,200,000 SAR

5.4. Patents
- Face Authentication Using Discriminative Facial Components, Inventor: Alaa Abdel-Hakim
- Dynamic update of recovered subspaces of high dimensional, Inventor: Alaa Abdel-Hakim

- Patentable application in GIS and Satellite Based Services, Co-Inventor: Majid Almaraashi
- Patentable application in Intelligent Adaptive Systems, Co-Inventor: Majid Almaraashi
- Portable Electrical Capacitive Tomography Imaging Device And Method Of Operation, Inventor: Wael Deabes

5.5. Research Statistics

	All	Since 2010
Total No. of Papers	177	–
Total No. of Citations	1790	1352
H-index	17	–

Funding Agent	KACST	UQU	Total
Number	5	8	13
Fund (SAR)	8,250,000	908,500	9,158,500

Faculty members are responsible for improving their own professionalism by attending training courses, research, student projects, consultation, international conferences and other professional activities. The university encourages and supports professional development through the deanship of University Development and Quality, which organizes regular conferences and workshops related to faculty development to enhance the teaching and research skills of faculty members.

The deanship offers the following services:
- Training in modern teaching techniques
- Training in designing courses and programs
- Training in academic accreditation, quality, and continuous improvement
- Training in academic administration and leadership
- Training in communication and interaction with students, and the community

Regular workshops are scheduled by the deanship every academic year including:
- Teaching related:
  - The use of technology in teaching
  - Examination systems and students evolution

- Quality standards in the educational process
- Strategies of university teaching
- Active learning
- Constructivist learning
- Cooperative learning
- Design and construction of an E-learning based curriculum
- Design of online tests
- Design of educational activities
- Selection and usage of teaching aids
- Adult education methods
- Teaching large groups
- How to prepare a questions bank
- Management of university classes
- Analysis of exams results
- Teaching development
- Teaching based on specialization and educational research
- Feedback and its role in improving teaching
- Professional teaching competencies
- Active and safe learning environment
- Theories of learning Students learning support

● **Research related:**
  - Research teams Management
  - Project preparation for competitive research funding
  - The ethics of scientific research
  - Construction of questionnaires and analysis of results using SPSS
  - The drafting of research reports
  - Quantitative research process

- Qualitative research process
- Publishing in scientific journals and magazines
- Writing and editing scientific papers
- Patents registration
- Preparing documents for promotions committee
- Scientific thinking skills
- Creative thinking
- Thought patterns in scientific research
- Selection and preparation of scientific research tools
- Stages and procedures for internal and external scholarship
- Codes and ethics of scientific discussion
- Analytical thinking
- Referencing software
- Standards and criterion of scientific research arbitration
- Critical Thinking
- Transforming a scientific thesis into a book

- **Personal and communication skills related:**
  - Communication skills in various modes of education
  - Effective presentation skills
  - Organization of scientific conferences
  - Ethics and behavior of the profession in the university work
  - Student guidance
  - Leadership of difficult classes
  - Skills to deal with different patterns of learners
  - Effective communication skills
  - Taalum Program
  - Time management
  - Overcome the pressures of work and setting priorities

- Argument skills
- Negotiation skills
- Interpersonal skills in the work environment
- Skills of persuasion and influence
- Self-development
- Strategies Formation and management of work teams
- How to write a CV
- Problem-solving and decision-making
- Building and managing work teams
- How to protect yourself and your students of the Internet dangers

Since professional development is required for faculty tenure and promotion decisions, faculty members are assisted and supported for these activities with an annual, individual professional development fund. In addition, many faculty members have funded research programs, in which they involve undergraduate researchers. See the faculty resumes in Appendix B for the professional development activities for each faculty member.

Faculty evaluation is based on how each faculty member supports the educational mission of the program, the college, and the university. As required by the Umm Al-Qura University Faculty Handbook, the evaluation process is conducted annually in the following ways:

• **Teaching Portfolio:** Each faculty member submits a teaching portfolio that includes examples of student work, records of assessment, and retrospective analysis of means of improvement. Original copies of student evaluations are also included in the record, and when available, special awards and student letters.

• **Annual Review:** Each faculty member completes an annual report on all university activities—teaching, research, and service. The format is prescribed, and the teaching portfolio is also included in this package. The chairperson discusses the annual report with each faculty member and uses the review to make decisions on merit-pay changes.
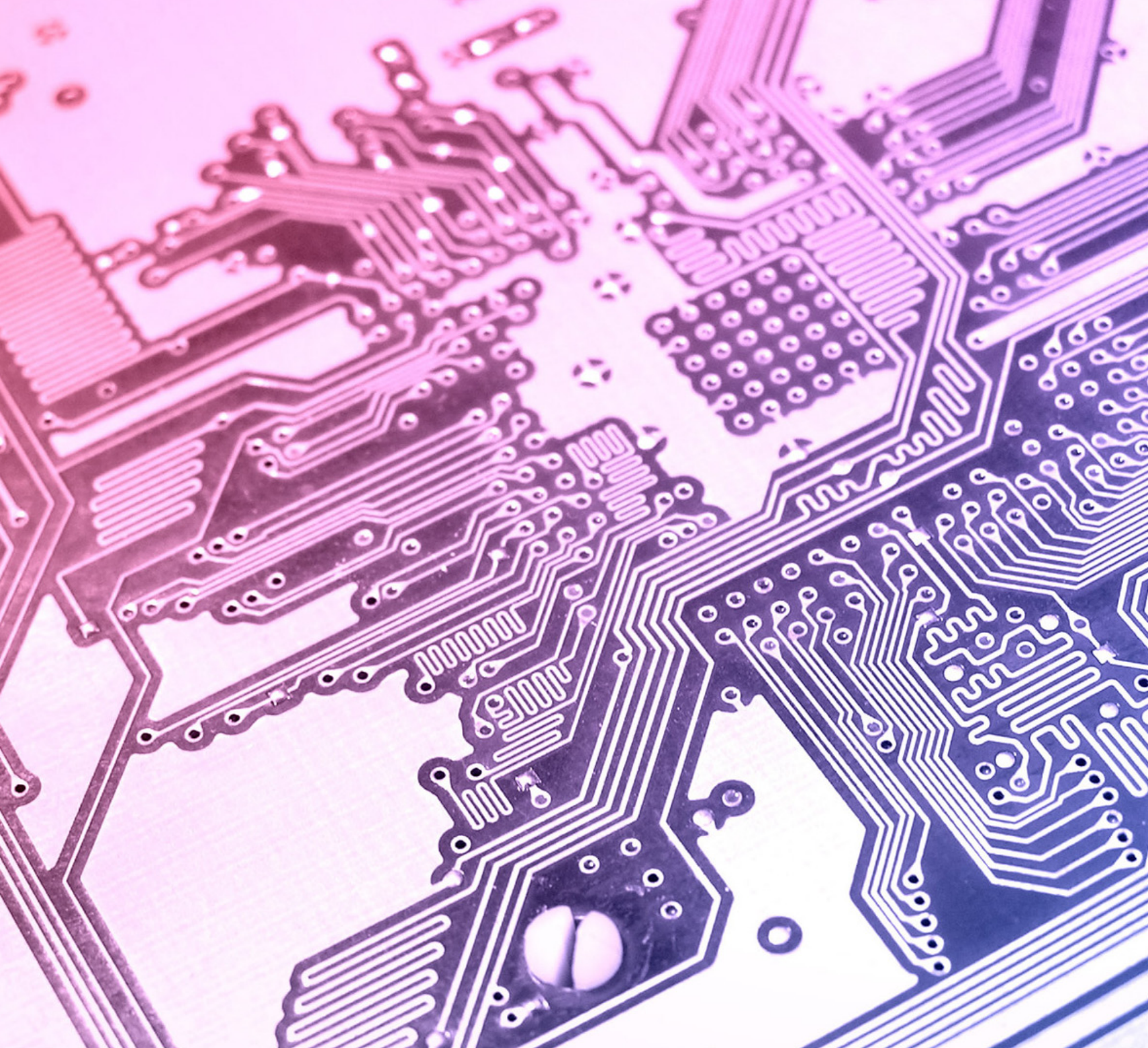
In addition, the following workshops have been offered by the college and department:

- ABET Accreditation Process, Prof. Reda Ammar, Male Section.
- Course Assessment, Prof. Reda Ammar, Male Section.
- Course Assessment, Prof. Reda Ammar, Female Section.
- Course Files Preparation, Dr. Abdel-Rahman Hedar, Male Section.
- Analyzing Course Assessment Results, Prof. Reda Ammar, Male and Female Sections.
- Preparing the SSR I, Prof. Reda Ammar, Male Section.
- Preparing the SSR II, Prof. Reda Ammar, Male Section.
- Review the SSR I, Dr. Abdel-Rahman Hedar, Male Section.
- Review the SSR II, Prof. Reda Ammar, Male Section.

Faculty Vitae

Abdel-Rahman Hedar Ahmed
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Education
- Doctor of Informatics (Computer Science), Kyoto University, Japan, 2004.
- Master of Science (Mathematics), Assiut University, Egypt, 1997.
- Bachelor of Science (Mathematics), Assiut University, Egypt, 1993.

Teaching and Research Experience
- Dept. of Computer Science - University College - Umm Al-Qura University - Saudi Arabia, Associate Professor and Quality Assurance Coordinator (September 2012, to present), Full time.
- Dept. of Computer Science - Assiut University – Assiut - Egypt, Associate Professor and Dept. Head (January 2012 to September 2012), Full time.
- Faculty of Computers and Information - Assiut University – Assiut - Egypt, Director of Quality Assurance Unit and Executive Manager of Continuous Improvement and Qualifying for Accreditation Project (February 2009 to September 2012), Full time.
- University of Ballarat - Australia, Visiting Researcher, (December 2005), Full time.
- Kyoto University - Kyoto - Japan, Research Fellow, (July 2005 to July 2007), Full time.
- Assiut University - Assiut - Egypt, Assistant Professor, (November 2004 to December 2011), Full time.
- Kyoto University - Japan, PhD Student, (August 2000 to October 2004), Full time.
- Dept. of Mathematics - Faculty of Science - Assiut University - Assiut - Egypt, Teaching Assistant, (November 1993 to August 2000), Full time.

Research Interest
Computational Intelligence, Global Optimization, Meta-heuristics, Machine Learning, Data Mining, Graph Theory, Bioinformatics, Natural Language Processing, Cloud Computing, Direct Search Methods, Fixed Point Theory

Alaa E. Abdel-Hakim M. Aly
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Education
- Doctor of Electrical and Computer Engineering, University of Louisville, Louisville, KY, USA, 2007
- Master of Electrical Engineering, Assiut University, Assiut Egypt, 2000.
- Bachelor of Electrical Engineering, Assiut University, Assiut Egypt, 1996.

Teaching and Research Experience
- Dept. of Computer Science - University College - Umm Al-Qura University - Saudi Arabia, Associate Professor (September 2014 to present), Full time.
- Electrical Engineering Department - Assiut University – Assiut - Egypt, Associate Professor (May 2014 to September 2014), Assistant Professor (August 2008 to May 2014), Teaching Assistant (December1996 to May 2002), Full time.
- Electrical Engineering Technology, Michigan Technological University (MTU), MI, USA, Assistant Professor (September 2007 to August 2008), Full time
- Computer Vision and Image Processing Lab. (CVIP), University of Louisville, Louisville, KY, USA, Post-Doc Researcher, Research Assistant and Ph.D student, (June 2002 – May 2007) Full time (May 2007 - September) Full time
- Assiut University Hospitals, PACS &HIS, Cardiology University Hospital, HIS and CVIS (Hospital Information System) IT, El-Rajehy Assiut University Liver Hospital, director, (20132014-), Part time
- Microsoft Research, Advanced Technology Lab- Cairo, post-doc researcher, (20102012-) Part time
- Knowledge Transfer Office, Assiut University, Establishing and running team (2012 – 2014) Part time
- MIS (Management Information System) at Assiut University, Co-director (2009 – 2011) Part time
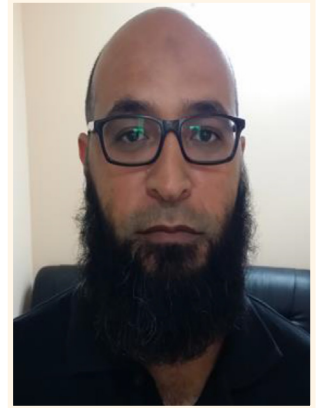
Research Interest
Object recognition, Feature extraction, Computer Vision, Image Processing, Machine Learning.

Kheir Eddine Hadj Bouazza
Associate Professor in Automatic Control, Electrical and Computer Engineering
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Education
- Doctor of Automatic Control, University of Nancy, France, 2004.
- Master of Automatic Control and Digital Signal Processing, University of Nancy, 2000.
- Bachelor of Computer Science, University of Oran, Algeria, 1998.

Teaching and Research Experience
- Dept. of Computer Science - University College - Umm Al-Qura University - Saudi Arabia, Associate Professor (Sep. 2011 to present), Full time.
- Dept. of Information System - University of Economics- Al Qassim University - Saudi Arabia, Associate Professor (Sep. 2010 to June 2011), Full time.
- Dept. of Computer Science - University of Oran- Algeria, Associate Professor (Jan. 2008 to June 2010), Full time.
- Dept. of Computer Science - University of Oran- Algeria, Assistant Professor (Sep. 2005 to Dec 2008), Full time.
- University Institute of Technology of Longwy, University of Nancy, Research Assistant, (Sep. 2004 to June 2005), Full time.
- University Institute of Technology of Longwy, University of Nancy, PhD Student, (Sep. 2000 to October 2004), Full time.

Research Interest
Networked Control Systems, Delay Systems, Wireless Sensor/Actuator Networks, Dynamic Output Feedback Control, Nonlinear Observers, Nonlinear Systems, Intelligent Traffic Systems, Image and Signal Processing, Markov Chain, Petri Nets.

Youseef Alotaibi
Assistant Professor in Software Engineering
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Education

- Doctor of Computer Science (Software Engineering), La Trobe University, Australia, 2014.
- Master of Information Technology (Computer Network), La Trobe University, Australia, 2009.
- Bachelor of Computer Science, Jeddah Teachers College, Saudi Arabia, 2004.

Teaching and Research Experience

- Dept. of Computer Science - University College - Umm Al-Qura University - Saudi Arabia, Assistant Professor and Head of Department (June 2014 to present), Full time.
- La Trobe University - Australia, PhD Student, (April 2009 to October 2013), Full time.
- Dept. of Computer Science and Computer Engineering - La Trobe University – Melbourne – Australia, Tutor, (March 2011 to November 2013), Part time.
- Dept. of Mathematics - Makkah Teachers College – Umm Al-Qura University - Makkah – Saudi Arabia, Teaching Assistant, (July 2004 to August 2006), Full time.
- Member of the Committee for Improving & Developing the Central Library of Makkah Teachers' College, 2004 - 2005.
- Director of Computer Activities at Makkah Teachers' College, 2004 – 2005.

Research Interest

Software Engineering, Software Economics, Reliability and Testing, System Analysis and Design, Security, Business Process and Information Technology, Process Model & Process Reengineering, E-Commerce, Global Software Development, Information System, QoS, Wireless Communication, and WiMAX

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Education
- Doctor of Computer Engineering, Aizu University, Fukushima, Japan, 2005.
- Master of Computer Engineering, Aizu University, Fukushima, Japan, 2002.
- Bachelor of Electrical and Computer Engineering, Assuit University, Egypt, 1997.

Teaching and Research Experience
- Dept. of Computer Science - University College - Umm Al-Qura University - Saudi Arabia, Assistant Professor (Oct. 2010 to present), Full time.
- Aizu University - Japan, MSc, PhD Student and Research Assistant, (Sep. 2000 to Sep. 2005), Full time.
- Dept. of Computer and Systems - Faculty of Engineering - Aswan University - Egypt, Teaching Assistant, (Dec. 1998 to Sep. 2000), Full time.

Research Interest
Biologically inspired artificial neural networks, Speech and sound processing, Artificial Intelligent Systems, Computer vision, Wireless Network Sensors, Smart embedded systems

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Education

- Doctor of Electrical and Computer Engineering, Tennessee Technological University, UAS, 2010.
- Master of Electrical and Computer Engineering, Mansoura University, Egypt, 2003.
- Bachelor of Electrical and Computer Engineering, Mansoura University, Egypt, 1999.

Teaching and Research Experience

- Dept. of Computer Science - University College - Umm Al-Qura University - Saudi Arabia, Assistant Professor (Oct. 2010 to present), Full time.
- Tennessee Technological University - USA, PhD Student and Research Assistant, (Sep. 2005 to May 2010), Full time.
- Dept. of Computer and Systems- Faculty of Engineering - Mansoura University - Egypt, Teaching Assistant, (Aug. 1999 to Sep. 2005), Full time.
- Researcher at the Manufacturing Center, Tennessee Technological University, USA, (Aug. 2007 to Dec. 2009), Part time.

Research Interest

Electrical tomography systems, Automatic control Systems, Artificial Intelligent Systems, Wireless Network Sensors, Embedded systems design, Instrumentation and sensors, Image and signal processing.

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Education
- Ph.D in Computer Engineering, University of Connecticut, USA, 2007.
- Master of Science in Electrical and Computer Engineering, Assiut University, Egypt, 1996.
- Bachelor of Science in Electrical Engineering, Assiut University, Egypt, 1992.

Teaching and Research Experience
- Assistant Professor at Dept. of Computer Science, University College, Umm Al-Qura University, Saudi Arabia, (May 2013 to present), Full time.
- Assistant Professor at Dept. of Electrical Engineering, Assiut University, Assiut, Egypt, (October 2008 to present), Full time (on a leave starting from May 2013).
- Gratis Assistant Professor in-residence at Dept. of Computer Science and Engineering, University of Connecticut, USA, (August 2007 to July 2008), Full time.
- TA and RA at Dept. of Computer Science and Engineering, University of Connecticut, Connecticut, USA, (August 2000 to November 2006), (Commencement date May 2007), Full time.
- MSc Student at University of Connecticut, Connecticut, USA, (August 1999 to July 2000), (Promotional to PhD Program), Full time.
- Demonstrator and Lecturer Assistant at Dept. of Electrical Engineering, Faculty of Engineering, Assiut University, Assiut, Egypt, (December 1992 to August 1999), Full time.

Research Interest
Fault-Tolerance, Parallel and Distributed computing, Grid Computing, Scheduling, Cloud Computing, Wireless Network Sensors, Image processing.

Salah Fayad
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Education

- Doctor in Computer engineering and systems (Computer Science), El- Azhar University, Egypt, 2005.
- Master of Science (Electrical Department), Military Technical College, Egypt, 1995.
- Bachelor of Engineering (Electrical Department), Military Technical College, Egypt, 1979.

Teaching and Research Experience

- Dept. of Computer Science - University College - Umm Al-Qura University - Saudi Arabia, Assistance Professor (September 2011 to present), Full time.
- Dept. of Computer Science – High Institute of Administration Science – Kattamia - Egypt, Assistance Professor and Dept. Head (July 2006 to September 2011), Full time.
- Tiba Engineering High Institute - Assistance Professor – Cairo - Egypt, Visitor Professor, (July 2008 – Jan. 2009), Part time.
- El-Azhar University - Egypt, PhD Student, (August 2000 to December 2005), Part time.
- University of Calgary - Canada, Visiting Researcher, (3-Monthes 2003) for collection of scientific information, Full time.
- Military Technical College - Assistance Professor – Cairo - Egypt, Visitor Professor, (July 2004 – Jan. 2005), Part time.
- Military Technical College - Cairo - Egypt, MSC Student, (November 1993 to October 1995), Full time.
- Consultant in Aircraft Factory, AOI (Arab Organization Industrial), Cairo, Egypt, (July 2006 to October 2011), Full time.
- Arabic Institute of AOI - Cairo - Egypt, Visitor for teaching Courses (September 2008), Part time.

Research Interest

Software and Computer Engineering

Mohamed Othmani
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Education
- Doctorate (Ph.D.) Degree: Computer Systems Engineering, National School of Engineers, Sfax University, Tunisia, 2012.
- Master Degree: New Technologies of Dedicated Computer Systems, National School of Engineers, Sfax University, Tunisia, 2007.
- Engineering degree: Computer Science engineering, National School of Engineers, Sfax University, Tunisia, 2003.

Teaching and Research Experience
- Since September 2013: Assistant professor, Dept. of Computers, University College, Umm Al-Qura University, KSA.
- March 2012: Assistant professor, Dept. of Computer Science, Faculty of Sciences, Gafsa, Tunisia.
- September 20102012-: Assistant, Dept. of Computer Science, Higher Institute for Applied Science and Technology of Gafsa (HIAST), Tunisia.
- September 20092010-: Assistant, Dept. of Computer Science, Faculty of Sciences, Gafsa, Tunisia.
- September 20032009-: Technologist Assistant, Dept. of Computer Science, Higher Institute of Technological Studies of Gafsa (HITS), Tunisia.
- Since 2005: Member of the Research Group on Intelligent Machines (REGIM). REGIM-Lab. is a Research Laboratory in Intelligent Machines (code LR11ES48) located in the National School of Engineering, University of Sfax, Tunisia.
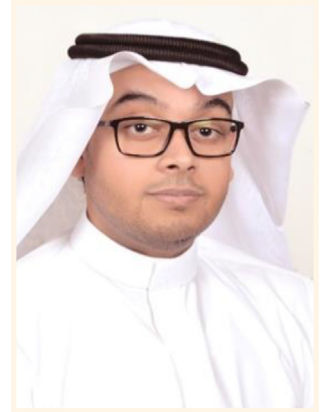
Research Interest
3D object modeling, 3D object reconstruction and representation, 2D and 3D image segmentation and classification, Data approximation, Signal processing, Image parameterization, Theory and tools of wavelet networks, Learning methods, Optimization Algorithms.

Ahmad Faisal Subahi

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Education

- PhD in Computer Science, University of Sheffield, UK, 2015.
- MSc in Advanced Computer Science, University of Sheffield, UK, 2010.
- MSc in Information Technology, Queensland University of Technology, Australia, 2008.
- Bachelor of Computer Science, King Abdulaziz University, Saudi Arabia, 2002.

Teaching and Research Experience

- Dept. of Educational Technologies - University College - Umm Al-Qura University - Saudi Arabia, Assistant Professor (Oct. 2004 to March 2016), Full time.
- Dept. of Computer Science - University College - Umm Al-Qura University - Saudi Arabia, Teaching Assistant (April. 2016 to present), Full time.

Research Interest

Model-Driven Engineering, Domain Specific Languages, Code Generation.

Jamila AbdelKader Bhar
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Education
- Doctoral degree in electric at the National School of Engineering of Sfax (ENIS), Tunisia, 2010.
- Master degree in telecommunication system (radio cellular network specialty) at the National School of Engineering of Tunis Tunisia (ENIT), Tunisia, 2003.
- Engineering diploma in electric (electric and communication specialty) at the National School of Engineering of Tunis (ENIT), Tunisia, 2002.

Teaching and Research Experience
- Dept. Of Computer Science – University College – Umm Al-Qura University – Saudi Arabia, Assistant Professor (September 2014 to present), Full time.
- Dept. Of Computer Science – Applied Sciences and Technology Institute of Sousse (ISSAT Sousse) – Sousse University – Tunisia, Assistant Professor (2010 to 2014).
- Dept. Of Computer Science – Applied Sciences and Technology Institute of Sousse (ISSAT Sousse) – Sousse University – Tunisia, Assistant (2003 to 2010), Full time.
- Dept. Of Computer Science – Applied Sciences and Technology Institute of Sousse (ISSAT Sousse) – Sousse University – Tunisia, Teaching Assistant (2002 to 2003).
- Training at TIMA laboratory (TIMA : Techniques de l›Informatique et de la Microélectronique pour l›Architecture d›ordinateurs), Grenoble, France, (July – August 2006).
- Training at Telecom Tunisia (Tunisie Télécom), (February – June 2002).

Research Interest
Hardware/software protocol design and verification, Traffic management, Handover protocol, Wireless Sensor Network and Quality of Service for wireless networks.

Mohammad Iquebal Akhter
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Education
- Ph.D. Pursuing from Dravadian University AP, India.
- Master in computer application (MCA) under Magadh University, India, 1997.
- Bachelor of Science with special Honors in Physics under Magadh university, India, 1993.

Teaching and Research Experience
- Dept. of Computer Science - University College - Umm Al-Qura University - Saudi Arabia, Lecturer (Oct. 2011 to present), Full time.
- Dept. of Computer Science - King Saud University - Saudi Arabia, Lecturer, (Dec. 2008 to Sep. 2010), Full time.
- Dept. of Computer Engineering – Maulana Azad College of Engineering & Technology - India, Lecturer, (Nov. 2006 to Dec. 2008), Full time.
- M/s Al-Derbas Group of Company – Saudi Arabia, Analyst/ Programmer, (Jun. 2000 to Jan. 2006), Full time.
- CMS Computer Institute – Private Limited – India - Faculty (July 1997 to June 2000), Full time.
- National Informatics Centre – Planning Commission – India – Trainee (July. 1996 to Jan 1997), Full time.

Research Interest
Data Mining, Color Differentiation Mechanism, Artificial Intelligent Systems, Cryptography, Electronic Commerce Applications, Business Intelligence, Embedded systems design, cloud computing. Highly motivated in an Intrusion detection and Business Intelligence.

Ehab Ali Alghaibar
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Education

- Master of Computer Science, Software of Computer-Aided Systems, National Technical University, kharkiv, Ukraine, 2009.
- Bachelor of Computer Science, National Technical University, .kharkiv, Ukraine, 2008.

Teaching and Research Experience

- Dept. of Computer Science - University College - Umm Al-Qura University - Saudi Arabia, Lecturer (Feb. 2011 to present), Full time.
- Dept. of Computer Science - University College - Umm Al-Qura University - Saudi Arabia, Department Coordinator (Sep. 2011 to present), Full time.
- MTN Telecom - Syria - As Billing Supporter Applications Eng.(for Billing System and Helpdesk), From June 2010 to Sep 2011, Full time.

Research Interest

Information System, Software Engineering, Oracle Database.

Amer Ahmad Saleh Al Jezawi
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Education
- Master Education techniques / computer tutorial / Yarmouk University, Jordan, 2001.
- Bachelor of Education / Yarmouk University, Jordan, 1997.

Teaching and Research Experience
- Lecturer, Dept. of Computer Science, University College, Umm Al-Qura University, Saudi Arabia, from (31-Aug-2002 to present), Full time.

Research Interest
E-learning, Computer Education, Education Technology.

Mohammed Sajid Anwer
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Education
- Master in Computer Science and Applications (MCA), Aligarh Muslim University, Aligarh, India, 1996.
- Post Graduate Diploma in Computer Science and Applications (PGDCA), Aligarh Muslim University, Aligarh, India, 1992.
- Bachelor of Mathematics and Computer, Aligarh Muslim University, Aligarh, India, 1991.
- Currently pursuing PhD in computer Science.

Teaching and Research Experience
- Dept. of Computer Science - University College - Umm Al-Qura University - Saudi Arabia, Lecturer (Oct. 2011 to present), Full time.
- Dept. of Computer Science – College of Technology – Ministry of Manpower- Sultanate of Oman, Lecturer (Feb. 2000 to 2010), Full time.
- Dept. of Computer Science – Aligarh Muslim University - India, Lecturer (Feb. 1996 to 2000), Full time.

Research Interest
Mobile Ad hoc Network (MANET), Cryptographic Protocol for RFID System using Elliptic Curve Cryptosystem

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Education
- M.Phil. (Computer Science), Periyar University, India, 2007.
- Master of Science (Information Technology), Bharathidasan University, India, 2001.
- Bachelor of Science (Computer Science), Bharathiar University, India, 1999.

Teaching and Research Experience
- Dept. of Computer Science - University College of Jamum - Umm Al-Qura University - Saudi Arabia, Lecturer in Computer Science (September 2011 to present), Full time.
- Dept. of Computer Science – 7th October University– Misurata - Libya, Lecturer in Computer Science (September 2008 to Mar 2011), Full time.
- Dept. of Computer Science – Mekelle University– Mekelle - Ethiopia, Recruited by UNDP (United Nations Development Program) for Ethiopia. Lecturer in Computer Science (September 2006 to August 2008), Full time.
- Ministry of Higher Education – Ethiopia, Recruited by UNDP (United Nations Development Program) for Ethiopia. IT Instructor (October 2004 to August 2006), Full time.
- IT Instructor-MMHE-Coimbatore-India (April 2001 to July 2004), Full time.

Research Interest
Adhoc Networks, web development, Service oriented architecture, Quality of Service in Cloud Computing.

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Education

- Master of Science in Digital Electronics, University of Sussex/Brighton, United Kingdom, 2002.
- BTEC in Computer Communications and Networks, University of Westminster, London, United Kingdom, 1999.
- Bachelor of Electronics and Communication Engineering, Osmania University, India, 1985.

Teaching and Research Experience

- Dept. of Computer Science - University College - Umm Al-Qura University - Saudi Arabia, Lecturer (Oct. 2011 to present), Full time.
- Dept. of Computer Science - Faculty of , Sirt University - Libya, Lecturer, (Sept 2009 to Feb 2011), Full time.
- Department of Information Technology - College of Applied Sciences, Salalah - Sultanate of Oman, Collaboration with Otago University, Newzealand, Lecturer, (Sept 2007 to Aug 2009), Full time.
- Department of Computer Science – College of Arts and Applied Sciences, Dhofar University, Salalah, Sultanate of Oman, Instructor, (Sept 2004 to Aug 2007), Full time.
- Department of Computer Engineering – Faculty of Engineering, King Saud University, Kingdom of Saudi Arabia, Lecturer (Sept 2003 to Aug 2004), Full time.
- Researcher at International Academic and Industrial Research Solutions, India (May 2011 to present), Part time.

Research Interest

Mobile Broadband Wireless Networks, Cognitive Radio, Artificial Intelligence

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Education
- Master of Science (Software Engineering), University of Scranton, USA, 2013.
- Bachelor of Science (Computer Sciences), Umm Alqura University, Saudi Arabia, 2008.

Teaching and Research Experience
- Dept. of Computer Science - University College - Umm Al-Qura University -Saudi Arabia, Lecturer and Quality Assurance Coordinator (September 2013 to present), Full time.
- University of Scranton - USA, Master Student, (August 2010 to January 2013), Full time.
- Dept. of Instructional Technology – Umm Alqura University - Makkah – Saudi Arabia, Lab Teaching Assistant, (September 2008 to December 2008), Part time.
- Registration Coordinator University College - Umm Al-Qura University -Saudi Arabia, (September 2013 to present), Full time.

Research Interest
Data Mining, Database, software engineering techniques.

Bashar Mohammed Khaldon Ramadan
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Education
- Engineer of Complex systems and networks, vladimir University, Russia, 2002.
- Bachelor of computer science, vladimir University, Russia, 2001.

Teaching and Research Experience
- Dept. of Computer Science - University College - Umm Al-Qura University - Saudi Arabia, Teaching Assistance (Oct. 2010 to present), Full time.
- Network Administrator – Saudi Arabia – Macca-Teachers Collage (2003 – 2010)
- Website Developer – Saudi Arabia – Macca-Teachers Collage (2003 – 2010)
- Minister of higher education –Syria- Network engineer, (September 2002 to September 2003), full time.

Research Interest
Database forms and Relational Database Design

Ohoud Alzahrani
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Education
- Bachelor of (Computer Science) ,Umm Al-Qura University, Saudi Arabia, 2012.

Teaching and Research Experience
- Assigned as Demonstrator (Teaching Assistant) at Computer Science Department, University College in Aljamoum , KSA, 2014 , Full time.
- Cooperated as Teaching Assistant at Computer Science and IT College, Alzaheir Branch, Umm AlQura University, Saudi Arabia,2012, Part time.
- Volunteered in the Robotics field at "Mawheba Center" Annex to "King AbdulAziz and his men" institution for the talented students, KSA, 2013, Part time.

Research Interest
Software Engineering