

# ► Reham Alabduljabbar

Office# 65, Third Floor, Building 6,  
Daryah Campus, KSU

Phone: +966 11 805 2700

E-mail: [ralabduljabbar@ksu.edu.sa](mailto:ralabduljabbar@ksu.edu.sa)

Website: <http://fac.ksu.edu.sa/ralabduljabbar>

## Bio

Assistant Professor at the IT department, CCIS, KSU.

## Research Interests

Human computation, Crowdsourcing, Collective Intelligence, and Big Data.

## Education

**Doctor of Philosophy in Information Systems** (January 2017)

- King Saud University, College of Computer and Information Sciences.
- Thesis Title: A Dynamic Selection Approach for Quality Control Mechanisms in Crowdsourcing.

**Master of Sciences in Information Technology** (December 2006)

- The University of Adelaide, Adelaide, Australia, School of Computer Science.
- Project Title: Simultaneous Localisation and Mapping

**Bachelor of Sciences in Computer Applications** - with Honor (June 2004)

- King Saud University, College of Computer and Information Sciences.
- Project Title: Natural Language Processing for Databases Conceptual Modeling

## Work Experience

**Assistant Professor** (March 2017 - Present)

Information Technology Department, College of Computer and Information Systems, King Saud University, Riyadh, Saudi Arabia.

**Lecturer** (Jan 2008 –March 2017)

Information Technology Department, College of Computer and Information Systems, King Saud University, Riyadh, Saudi Arabia.

## Departmental Committees

- Member of the IT Department's Technical Development Committee (2009-2010).
- Member of the IT Graduation Project Committee (2008-2010).
- Member of the IT Department's Curriculum Reviews Committee (2009-2010).
- Member of the IT Department's Practical Training Committee (2015).
- Member of the IT Department's Alumni Committee since 2017.

## Courses, Conferences and Workshops

- **13<sup>th</sup> -15<sup>th</sup> December, 2009.** Microsoft Gulf Development Conference (GDC' 09), Riyadh, Saudi Arabia.
- **Oct 2009.** "Research Center Role in Leadership and Excellence", Seminar, KSU.
- **Dec 26<sup>th</sup> 2009 – Feb 8<sup>th</sup> 2010.** Completion of a C# Training Course at Al Yamama University provided by Microsoft.
- **January 2010.** ABET Accreditation Workshop, KSU.
- **10<sup>th</sup> -12<sup>th</sup> January, 2010.** Completion of 12 hours program on Excellency in Higher Education provided by Deanship of Skills Development, KSU.
- **17<sup>th</sup> -20<sup>th</sup> November, 2013.** The 2nd Saudi International Conference on IT, KACSTIT, Riyadh, Saudi Arabia.
- **17<sup>th</sup> November, 2013.** "Cloud Computing Tutorial" at the 2nd Saudi International Conference on IT, KACSTIT, Riyadh, Saudi Arabia.
- **20<sup>th</sup> November, 2013.** "Machine Learning Tutorial" at the 2nd Saudi International Conference on IT, KACSTIT, Riyadh, Saudi Arabia.
- **16<sup>th</sup> March, 2014.** "Intellectual Property Rights for Graduation Projects Outcomes", Seminar, CCIS, KSU.
- **20<sup>th</sup> March, 2014.** CitySchema project workshop by the Center for Complex Engineering Systems at KACST, Riyadh, Saudi Arabia.
- **4<sup>th</sup> April, 2014.** "Semantic web based mobile knowledge management", Seminar, KSU.
- **23<sup>rd</sup> April, 2014.** IT research Day, CCIS, KSU.
- **April 5<sup>th</sup>, 2015.** e-training workshop entitled (Introduction to Qualitative Analysis) offered by SDL- Saudi Digital Library.
- **May 6<sup>th</sup>, 2105.** "Introduction to Semantic Technologies with OWL Reasoning", Webinar by Cognitum.
- **October 28<sup>th</sup>,** e-training workshop entitled "Academic Writing", offered by ULC ( effective learning center).
- **1<sup>st</sup> – 3<sup>rd</sup> November, 2015.** The IEEE 11<sup>th</sup> International Conference on Innovations in Information Technology (IIT'15), Dubai, UAE.
- **July 2016.** The 15<sup>th</sup> International Conference on Information and Knowledge Engineering, Las Vegas, USA.
- **October, 2016.** The International ACM Conference on Research in Adaptive and Convergent Systems (ACM RACS 2016), Odense, Denmark.
- **22<sup>nd</sup> – 23<sup>rd</sup> , 2017.** The ACM Second International Conference on Internet of Things, Data and Cloud Computing (ICC 2017), Cambridge, UK.

## Community Services

- **January 2010.** Participation in the development of the IT department strategic plan.
- **27<sup>th</sup> May, 2014.** Presentation of “Human Factors Engineering in Urban Planning DSS”, Dry Run of Presentations for the HCI International Conference, SKERG, CCIS, KSU.
- **19<sup>th</sup> April 2017.** Participation in the Community Research Event at PSU.
- **April 2017.** Participation in KSU 8<sup>th</sup> Scientific Symposium.

## Awards

- **2003,** fourth place certificate, in the best educational software competition sponsored by Al-Dwalej Company.
- **2004,** first place certificate, in the best extracurricular activities competition at King Saud University.
- **2004,** nominated to win King Saud University Excellence Award.
- **2009,** awarded KSU Golden Medallion from the University President for productivity in teaching.
- **2015,** awarded the best poster award at the IEEE 11<sup>th</sup> International Conference on Innovations in Information Technology (IIT'15), Dubai, UAE.

## Computer Skills

**Languages:** PASCAL, C, C++, Java, C#, Scheme, XML, HTML, DHTML, CSS, JavaScript, Assembly.

**Platforms:** Windows, DOS, UNIX.

**Development:** Database systems, Windows GUI applications, Event-driven applications, .NET applications, Web applications, Semantic web and knowledge engineering.

## Teaching

### Courses taught at King Saud University:

- CAP 107 - Introduction to Computer Science.
- CSC 112 - Java Programming 1.
- CSC 113 - Java Programming 2.
- CAP 211 - Visual Programming.
- Cap 312 - Software Engineering.
- IT 496 - Graduation Project 1.
- IT 497 - Graduation Project 2.
- IT 369 - Electronic Commerce.
- IT 211 - Human Computer Interaction and Visual Programming.
- IT 443- Advanced Human Computer Interaction.

### Ongoing/ Past Student Graduation Project Supervision:

- **UrNext(2017-2018):** Clinics visits are not easy! For patients, doctors, and administrators, the entire process can be exhausting and confusing. Usually, patients arrive at the front-desk and wait in a queue for assistance to begin preparing to be registered or admitted. Moreover, one of the most

common patient complaints in clinics are the long and uncertain waiting times to see their doctor without any status updates. This can cause high levels of patient frustration and dissatisfaction. IoT is becoming an increasingly popular solution to healthcare problems. Imagine a patient walks into the clinic for her appointment, and receives a greeting message, an admission push notification, an estimated wait time, and queue number on her mobile device. This will greatly reduce wait time uncertainty and provide freedom for patients to walk around which could lead to not just better experiences but less wasted money. In this project, students are required to develop a context-aware application using proximity aware device technology such as Bluetooth Low-Energy Beacons. Using this technology, they will develop a mobile application that automatically notifies the front-desk of patients', doctors' and nurses' arrival as soon as they walk into the clinic within the range of the Beacon placed there. Patients who arrive in the clinic can have instant access to doctor wait times, and they can begin filling out necessary information on their personal devices the second they walk in the door.

- **MobileLOR(2017-2018):** Mobile Letter of Recommendation Application (Mobile LOR) is a mobile-based application that offers a communication bridge between students and faculty members. It aims at simplifying the process of requesting, generating, and receiving the LOR.
- **iMom2B(2013-2014):** iMom2B is an iOS application that incorporates a real-time interactive telemedicine system. It works as a channel between pregnant women and their physicians to monitor low-risk pregnancy progress. iMom2B goal is to minimize the number of unnecessary visits to the hospital by giving the patient the ability to accomplish her check-up visits at home. In consequence saving time, money and efforts, likewise increasing the physicians' productivity by allowing them to focus on more serious cases. It was built as a prototype for clients from King Fahad Medical City, Riyadh, Saudi Arabia.
- **eBookClub(2009-2010):** is a social network for readers in the world. It has a large library that a member can wander through and see everyone's bookshelves, their reviews, writings, and their ratings. Members can discuss their favorite reads with others.
- **ALORG (2008-2009):** Automatic Letter of Recommendation Generator is a web-based application that aims at replacing the manual process of issuing letters of recommendations.

## Publications

- Reham Alabduljabbar and Abdulrahman Mirza, "Identification of Major Factors for Successful Online Marketing through Social Networking in Saudi Arabia", In proceedings of the 2011 International Conference On E-Learning, E-Business, Enterprise Information Systems, & E-Government, WORLDCOMP'11, July 18-21, 2011, Las Vegas Nevada, USA.
- Reham Alabduljabbar and Samir El-Masri, "Open-source Dental Laboratories Web Content Management Systems vs. Commercial Web Content Management Systems", In proceedings of the 2012 International Conference on Bioinformatics and Computational Biology (BIOCOMP'12), The 2012 World Congress in Computer Science, Computer Engineering, and Applied Computing (WORLDCOMP'12), Las Vegas, Nevada, USA, July 16-19, 2012.
- Reham Alabduljabbar and Samir El-Masri. "Design of Web Content Management System for Dental Laboratories". International Journal of Computer Science Issues( IJCSI) Volume 10, Issue 1, January 2013.

- Reham Alabduljabbar and Areej Al-Wabil. "Human Factors Engineering in Interactive Urban Planning Decision Support Systems". HCI International 2014, Communications in Computer and Information Science Volume 435, 2014, pp 503-507, Springer International Publishing.
- Reham Alabduljabbar; Hmood Al-Dossari, "Toward Developing a Task Ontology-based Model for Quality Control in Crowdsourcing Systems", Proceedings of the IEEE 11th International Conference on Innovations in Information Technology (IIT'15), UAE, 1-3 November/2015. (**Best student poster award**).
- Reham Alabduljabbar; Hmood Al-Dossari, "A Dynamic Model for Quality Control in Crowdsourcing Systems", proceedings of the IKE'16 - The 15th International Conference on Information & Knowledge Engineering, Las Vegas, USA, July/2016, pages 145-147.
- Reham Alabduljabbar; Hmood Al-Dossari, "Ontology for Task and Quality Management in Crowdsourcing", International Journal of Computer, Issue 1 Volume 22, ISSN 2307-4523, August/2016, pages 90-102.
- Reham Alabduljabbar, Hmood Al-Dossari, "A Task Ontology-based Model for Quality Control in Crowdsourcing Systems", Proceedings of the International ACM Conference on Research in Adaptive and Convergent Systems (ACM RACS 2016), Odense, Denmark, October/2016, Pages 22-28.
- Reham Alabduljabbar, Hmood Al-Dossari, "Towards a Classification Model for Tasks in Crowdsourcing", Proceedings of the ACM Second International Conference on Internet of Things, Data and Cloud Computing (ICC 2017), March 22-23, 2017, Cambridge, UK.