

RAZWAN MOHMED SALAH NAJIMALDEEN, *PHD*

SPECIALIST: REMOTE & VIRTUAL LABS

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DoB: 30/09/1978

NATIONALITY: IRAQI

GENDER: MALE

ACADEMIC STATUS: LECTURER (PHD)

CURRENT POSITION: HEAD OF COMPUTER SCIENCE DEPT., CIHAN UNIVERSITY-DUHOK

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WEBSITE:

[Google Scholar](#),

[University of Duhok Site](#),

[Duhok Cihan-University Site](#)



RESEARCH INTERESTING:

- REMOTE EXPERIMENTATION (REMOTE AND VIRTUAL LABS)
- VIRTUAL AND AUGMENTED REALITY (VR/AR)
- TECHNOLOGY ENHANCED LEARNING (TEL)
- E-LEARNING
- LEARNING MANAGEMENT SYSTEM (LMS)
- MASSIVE OPEN ONLINE COURSES (MOOC)

EDUCATION

PHD

June 2017

University of Algarve, Faculty of Science and Technology
Informatics Engineering Department, Faro, Portugal, Online Labs Field

MSC

Oct. 2009

University Utara Malaysia, Collage Arts and Sciences
Information Technology Department, Kedah, Malaysia, WEB and WAP Technology

BSc

Sep. 2003

University of Technology, Faculty of Science
Computer Science & Information System Department, Networks

HONORS AND AWARDS

PHD AWARD

Sep. 2012 to Aug. 2015

- Granted by Erasmus program to study PhD in online labs field (Remote and Virtual Labs) at the University of Algarve, Faro, Portugal.

CONFERENCES BEST PAPER AWARDS

Nov. 2020

- Awarded for the Best paper presented at IEEE-CITISIA conference which held in Sydney, Australia, 2020.

MEMBERSHIP

- Cisco Academic (CCNA1). 2006
- IEEE membership. 2018
- VISIR Special Interest Group (SIG). Since 2013
- VISIR Activities Group in Mendeley.com (Admin). Since 2015

PROJECTS

- **REXNet Project: (IREX Organization)** Since 2016

Leader of Building a Remote Experimentation Network for serving higher education teachers and students in Iraq (REXNet) Project. This project is collaborated between Oklahoma State University and three universities in Kurdistan Region in Iraq, namely Duhok University, Zakho University, and Duhok polytechnic University. In general, it aims to use Virtual Labs in higher education and serve students and teachers in computer science field.

- 1- <http://cs.okstate.edu/~avgupta/IREX/>
- 2- <http://cs.okstate.edu/irex/index.html>

- **VISIR System: (European Project)** 2013 to 2017

Implementing a new Virtual Instrument Systems In Reality (VISIR) Open Lab Platform at the Oporto Polytechnic Institute- Instituto Superior de Engenharia do Porto (IPP-ISEP), Porto, Portugal. This node includes several languages (English, Swedish, Greek, Spanish, Portuguese, Arabic, Kurdish, Polish, and Dutch): <http://svn.openlabs.bth.se/trac/openlabsweb/changeset/450>

- **Promoting ICT in Higher Education in the Middle East: (UNESCO IITE)**

Contribute as the Expert and Consultant to the project “Promoting ICT in Higher Education in the Middle East” initiated by the UNESCO Institute for Information Technologies in Education (UNESCO IITE)

with the financial support of Huawei. The project objective is to explore the current situation in ICT-related education, in particular education that covers 5G/AI/Cloud technologies, in ten selected countries to lay the foundation for further ICT talent development programmes led by the donor, the Organisation or other stakeholders. The project will result in the ICT in Higher Education & TVET Insight Report based on data and information from ten selected countries (Bahrain, Iraq, Jordan, Kuwait, Lebanon, Oman, Pakistan, Qatar, Saudi Arabia and United Arab Emirates).

TEACHING AND RESEARCH EXPERIENCE

DISSERTATION

Since 2012

- Supervised several undergraduate students in Web and Mobile Applications, Virtual Reality (3D unity), and Open Online Learning at the Computer Science Departments, University of Duhok, and Cihan University- Duhok, Kurdistan Region, Iraq.

TEACHING UNDERGRADUATE COURSES (PRACTICAL & THEORY)

Since 2003

- Program Languages (Prolog and Pascal).
- Logic Design.
- Web Technology and Internet programming (Html, Java Script, PHP)
- Computer Networks.
- Mobile Internet Programming (WML & WMLS).
- Research Methodology.
- Data Base.
- Remote Experimentation (REx).
- Virtual Reality.
- System Analysis and Design.
- Computer Graphics.
- Software Engineering.
- Information Security.
- Computer Skills and Applications.

TEACHING POSTGRADUATE COURSES

Since 2017

- Technology Enhanced-Learning.
- Virtual and Augmented Reality (VR/AR).
- Computer Applications.

MASTERS STUDENTS ADVISED

Advised two international students who are granted by Erasmus program. First student was a master student from Poland, from 7th, July 2015 to 7th, September 2015. Another master student was from the Netherlands, form 8th, February 2016 to 8th, July 2016.

PUBLICATIONS

A) BOOK CHAPTER:

- I. **R.M. Salah**, G. R. Alves, S. K. Talal, C. Viegas and P. Guerreiro, "A Community of Practice around Online Labs in Iraq: Towards Effective Support for Academics and Educational Systems in the MENA Region", in Global Voices in Higher Education, Edition Book, Susan (Sue) L. Rene Editor, University of Alaska Fairbanks, Fairbanks, Alaska, USA, 2017. <https://www.intechopen.com/books/global-voices-in-higher-education/a-community-of-practice-around-online-labs-in-iraq-towards-effective-support-for-academics-and-higher-education>

B) JOURNAL:

1. S. Shrestha; A. Alsadoon; **R.M. Salah**; R. S. Ali; and P.W.C. Prasad, "Block Chain Technology for e-Commerce Security: Enhanced Elliptical Curve Integrated Encryption (EECIE)", Egyptian Informatics Journal. (Accepted)
2. D. Atrushi, **R.M. Salah**, and N. S. Ahmed. "Integrating Enterprise Resource Planning with the Organizations' Management Structure for Decision Making", ARO-The Scientific Journal of Koya University, 8(2), pp. 34-39. doi: 10.14500/aro.10649.
3. D.H. Abdulazeez, **R.M. Salah**, "Developing an Ontology for Retrieving Massive Open Online Courses (MOOC) Information in Coursera Platform", Journal of Duhok University (JDU), 32(1), pp. 103-114, 2020. <http://journal.uod.ac/index.php/uodjournal/article/view/623>
4. D.H. Abdulazeez, **R.M. Salah**, G.R. Alves. "A Framework for Enhancing Higher Education in the Kurdistan Region of Iraq through a dedicated MOOC platform", The Journal of Duhok University (JDU), 32(1), pp. 81-93, 2020. <http://journal.uod.ac/index.php/uodjournal/article/view/621>
5. **R.M. Salah**, G.R. Alves, P. Guerreiro, and I. Gustavsson. "Using UML Models to Describe the VISIR System", International Journal of Online Engineering (iJOE), 12(6), pp. 34-42, 2016. <https://online-journals.org/index.php/i-joe/article/view/5707>
6. **R.M. Salah**, P. Guerreiro, and G.R. Alves." IT-Based Education with Online Labs in the MENA Region: Profiling the Research Community" International Journal of Human Capital and Information Technology Professionals (IJHCITP), 6(4), pp. 1-21, 2015. <https://www.igi-global.com/article/it-based-education-with-online-labs-in-the-mena-region/133197>
7. Y.T. Mustafa, R.T. Ali, and **R.M. Najimaldeen**. "Monitoring and evaluating land cover change in the Duhok city, Kurdistan Region-Iraq, by using remote sensing and GIS", International

C) CONFERENCE:

1. M. Chen, A. A. Al-Babawat, A. Alsadoon, S. Patel, **R.M. Salah**, P.W.C. Prasad, “Modify Flipped Model of Co-regulation and Shared-regulation Impact in Higher Education, and Role of Facilitator on Student's Achievement”, The 2021 International Conference on Computational Science and Computational Intelligence (CSCI), Publisher: IEEE, Las Vegas- Nevada, USA, 15-17 December 2021.
2. Aida Jafarian, **R.M. Salah**, Abeer Alsadoon, Srujal Patel, Gustavo R. Alves, P.W.C. Prasad, “Modify Flipped Model of Co-regulation and Shared-regulation Impact in Higher Education, and Role of Facilitator on Student's Achievement”, The 2021 International Conference on Computational Science and Computational Intelligence (CSCI), Publisher: IEEE, Las Vegas- Nevada, USA, 15-17 December 2021.
3. M. M. Silva, A. V. Fidalgo, A. Marques, G. R. Alves, **R.M. Salah Salah**, F. L. Jacob, “A comprehensive VISIR bibliographical reference”, 2021 World Engineering Education Forum/Global Engineering Deans Council (WEEF/GEDC), Publisher: IEEE, Madrid, Spain, pp. 468-475, 2021, DOI: [10.1109/WEEF/GEDC53299.2021.9657332](https://doi.org/10.1109/WEEF/GEDC53299.2021.9657332)
4. F. García-Loro, A. Macho, M. Castro, G. R. Alves, M. A. Marques, N. Lima, L. Rodríguez-Gil, **Razwan Najimaldeen**, R. M. Fernández, “Remote laboratory VISIR: recent advances, initiatives, federation, limitations and future”, 2021 IEEE Global Engineering Education Conference (EDUCON), Publisher: IEEE, Vienna, Austria, pp. 1754-1757, 2021, DOI: [10.1109/EDUCON46332.2021.9453961](https://doi.org/10.1109/EDUCON46332.2021.9453961)
5. S. Manohar, A. Alsadoon, P.W.C. Prasa, **R.M. Salah**, A. Maag, Y. Murugesan, “A Novel Augmented Reality Approach in Oral and Maxillofacial Surgery: Super-Imposition Based on Modified Rigid and Non Rigid Iterative Closest Point”, Conference on Innovative Technologies in Intelligent Systems & Industrial Applications (CITISIA 2020), Publisher: IEEE, Sydney, Australia, pp. 1-10, 2021. DOI: [10.1109/CITISIA50690.2020.9371785](https://doi.org/10.1109/CITISIA50690.2020.9371785) (*Best Paper*)
6. D. T. Vujjini, **R.M. Salah**, A. Alsadoon, P.W.C. Prasad, “Survey on Real-Time Tracking and Treatment of Infectious Diseases Using Mixed Reality in Visualisation Technique with Autoimmune Therapy”, Conference on Innovative Technologies in Intelligent Systems & Industrial Applications (CITISIA 2020), Publisher: IEEE, Sydney, Australia, pp. 1-9, 2021. DOI: [10.1109/CITISIA50690.2020.9371853](https://doi.org/10.1109/CITISIA50690.2020.9371853)
7. T. Parasapogu, I. Seher, **R.M. Salah**, A. A. Alwan, “DFA Taxonomy for the classification of ECG data for effective health monitoring using ML technology”, Conference on Innovative Technologies in Intelligent Systems & Industrial Applications (CITISIA 2020), Publisher: IEEE, Sydney, Australia, pp. 1-10, 2021. DOI: [10.1109/CITISIA50690.2020.9371859](https://doi.org/10.1109/CITISIA50690.2020.9371859)
8. B. Ahamed, D. Yuvaraj, **R.M. Salah**, “Enhancement Framework of Semantic Query Expansion Using Mapped Ontology”, 2020 International Conference on Computer Science and Software

- Engineering (CSASE), Publisher: IEEE, Duhok, Kurdistan Region-Iraq, pp. 56-60, 2020. DOI: [10.1109/CSASE48920.2020.9142093](https://doi.org/10.1109/CSASE48920.2020.9142093)
9. **R.M. Salah**, J. Cecil, D. Atrushi, “Collaborative Remote Laboratories for Serving Sciences and Engineering Education in Iraq: REXNet Project,” International Conference on Advanced Science and Engineering (ICOASE2018), Publisher: IEEE, Duhok, Kurdistan Region-Iraq, pp. 134-139, 2018. DOI: [10.1109/ICOASE.2018.8548885](https://doi.org/10.1109/ICOASE.2018.8548885)
 10. **R.M. Salah**, G.R. Alves, B. Datkiewicz, P. Guerreiro, and I. Gustavsson. “VISIR System @ BTH, Deusto, ISEP, and UNED Institutes: Assisting and Supporting Hands-On Laboratories to Serve Higher Education Students”, 8th annual International Conference of Education, Research and Innovation (iCERi 2015), Publisher: The International Academy of Technology, Education and Development (IATED), Seville, Spain, pp. 2535-2547, 2015. <https://library.iated.org/view/SALAH2015VIS>
 11. **R.M. Salah**, P. Guerreiro, and G.R. Alves. “A Federation of Online Labs for Assisting Engineering and Sciences Education in the MENA Region”, International conference of Technological Ecosystems for Enhancing Multiculturality (TEEM2015), pp. 651–658, 2015. <https://dl.acm.org/doi/abs/10.1145/2808580.2808680>
 12. **R.M. Salah**, G.R. Alves, D.H. Abdulazeez, P. Guerreiro, and I. Gustavsson. “Why VISIR? Proliferative Activities and Collaborative Work of VISIR System” 7th annual International Conference on Education and New Learning Technologies (EDULEARN15), Publisher: The International Academy of Technology, Education and Development (IATED), Barcelona, Spain, pp. 3824-3835, 2015. <https://library.iated.org/view/SALAH2015WHY>
 13. **R.M. Salah**, G.R. Alves, and P. Guerreiro. “Reshaping Higher Education Systems in the MENA Region: The Contribution of Remote and Virtual Labs”, 11th International Conference on Remote Engineering and Virtual Instrumentation (REV), Publisher: IEEE, Porto, Portugal, pp. 240-245, 2014. DOI: [10.1109/REV.2014.6784265](https://doi.org/10.1109/REV.2014.6784265)
 14. **R.M. Salah**.” Remote Labs to improve Engineering Education in the MENA Region” International Conference on Engineering Education and Research (iCEER 2013), Marrakesh, Morocco, 2013.

CONFERENCE PRESENTATION AND PARTICIPATION

1. The 2021 International Conference on Computational Science and Computational Intelligence (CSCI), Las Vegas- Nevada, USA, 2021.
2. Conference on Innovative Technologies in Intelligent Systems & Industrial Applications (CITISIA 2021), Sydney, Australia, 2021.
3. 2021 IEEE Global Engineering Education Conference (EDUCON2021), Vienna, Austria, 2021.
4. International Conference on Advanced Science and Engineering (ICOASE2020), Duhok, Kurdistan Region-Iraq, 2020.

5. Conference on Innovative Technologies in Intelligent Systems & Industrial Applications (CITISIA 2020), Sydney, Australia, 2020.
6. 2020 International Conference on Computer Science and Software Engineering (CSASE), Duhok, Kurdistan Region-Iraq, 2020.
7. International Conference on Advanced Science and Engineering (ICOASE2019), Duhok, Kurdistan Region-Iraq, 2019.
8. 5th International Engineering Conference on Developments in Engineering Applications (IEC 2019), Erbil, Kurdistan Region-Iraq, 2019.
<https://www.ishik.edu.iq/conf/iec/utilising-computer-technologies-in-daily-life-application/>
9. International Conference on Advanced Science and Engineering (ICOASE2018), Duhok, Kurdistan Region-Iraq, 2018. <https://icoase2018.uoz.edu.krd/>
10. 5th Kurdistan International Conference on Science and Technology, Duhok, Kurdistan Region-Iraq, 2018. <http://web.uod.ac/ac/c/cos/international-conference-for-sci-and-tech/about/>
11. International Conference on Advanced Science and Engineering (ICOASE2018), Duhok, Kurdistan Region-Iraq, 2018. <https://icoase2018.uoz.edu.krd/>
12. International Conference on Remote Engineering and Virtual Instrumentation (REV), Madrid, Spain, 2016.
13. International conference of Technological Ecosystems for Enhancing Multiculturality (TEEM), Porto, Portugal, 2015.
14. 8th annual International Conference of Education, Research and Innovation (iCERi), Seville, Spain, 2015.
15. 7th annual International Conference on Education and New Learning Technologies (EDULEARN), Barcelona, Spain, 2015.
16. International Conference on Remote Engineering and Virtual Instrumentation (REV), Porto, Portugal, 2014.
17. International Conference on Engineering Education and Research (iCEER), Marrakesh, Morocco, 2013.
18. IEEE Global Engineering Education Conference (EDUCON), Berlin, Germany, 2013.
19. Next Generation Networks and Services Conference (NGNS), Faro, Portugal, 2012.

PROFESSIONAL TRAINING AND WORKSHOP

1. Guest Lecturer, 11 May, 2020, Real-Life Experience in Virtual Reality, India, Webinar Workshop.
1. Fifth International Engineering Conference on Developments in Engineering Applications (IEC2019), Tishk International University, Erbil, Kurdistan Region-Iraq, 2019.
2. REXNet Project, 15-20 May 2017, Center for Cyber Physical System (CCPS), Oklahoma State University (OSU), Oklahoma City, USA.

<http://web.uod.ac/facilities/it-services/rexnet-project/activities/rexnet-project--participate-two-members-of-college-of-science-in-the-workshop-at-oklahoma-state-university-united-states/>

3. Skype Video Conference on Online Labs for Assisting Engineering and Science Education, 17 December 2015, University of Zakho, Duhok, Kurdistan Region-Iraq.
<http://uo.z.edu.krd/news.php?NID=ODY=4ojboF5b>
4. TOEFL ITP administration, 21-23 November 2009, ETS Global, Amman, Jordan.
5. Java2 Enterprise Edition (J2EE), 2 February to 28 March 2009, JobKey Training center, University Utara Malaysia, Kedah, Malaysia.
6. Model-Based Systems for Industrial Applications, 27 February 2008, organized by Collage Arts and sciences, University Utara Malaysia: Malaysia.
7. Applying Data Mining Techniques Using Enterprise Miner, 12-14 August 2008, SAS Center, University Utara Malaysia: Malaysia.
8. Networking (CCNA1), 12 October to 08 December 2006, University of Duhok, Duhok, Kurdistan Region, Iraq.

PROFESSIONAL SERVICE

SYMPOSIUM ORGANIZER (COMMITTEE PROGRAM CONFERENCES)

1. International Conference on Innovations in Computing Research (ICR'22), Athens, Greece, August 29-31, 2022.
2. International Conference on Computer Science and Software Engineering (CSASE2022), Duhok, Kurdistan Region-Iraq, 2022.
3. Conference on Innovative Technologies in Intelligent Systems & Industrial Applications (CITISIA 2021), Sydney, Australia, 2021.

4. Conference on Innovative Technologies in Intelligent Systems & Industrial Applications (CITISIA 2021), Sydney, Australia, 2021.
5. World Engineering Education Forum (WEEF GEDC 2021), Madrid, Spain, 2021.
6. Conference on Innovative Technologies in Intelligent Systems & Industrial Applications (CITISIA 2020), Sydney, Australia, 2020.
7. International Conference on Computer Science and Software Engineering (CSASE2020), Duhok, Kurdistan Region-Iraq, 2020.
8. International Conference on Advanced Science and Engineering (ICOASE2018, ICOASE2019, and ICOASE2019), Duhok, Kurdistan Region-Iraq, 2018, 2019. 2020.
9. The 5th Kurdistan International Conference On Science and Technology (KCST2019), Duhok, Kurdistan Region-Iraq, 2019.
10. International Conference on Remote Engineering and Virtual Instrumentation (REV), Porto, Portugal, 2014.
11. International Conference on Engineering Education and Research (iCEER), Marrakesh, Morocco, 2013.
12. Next Generation Networks and Services Conference (NGNS), Faro, Portugal, 2012.

EXTERNAL EXAMINER (THESIS EVALUATION)

1. Rawan A. Al-Rashid Agha, “A Virtual & An Augmented Reality Application of the Rashid Agha’s Diwan Khanah In the Citadel of Erbil Using 360° 3D Lidar”, University of Kurdistan Hewlêr, Erbil, Kurdistan Region-Iraq, 2019.
2. Bareen Shams Aldeen Tahir, “Proposed a Fractal-based System in higher Education Institute of Kurdistan Region Regarding the Management of Student Registration System”, Duhok Polytechnic University, Duhok, Kurdistan Region-Iraq, 2020.

PEER-REVIEWED ARTICLES SERVICE

1. Conference on Innovative Technologies in Intelligent Systems & Industrial Applications (CITISIA 2021), Sydney, Australia, 2021.
2. World Engineering Education Forum (WEEF GEDC 2021), Madrid, Spain, 2021.
3. International Conference on Advanced Science and Engineering (ICOASE2020), Duhok, Kurdistan Region-Iraq, 2020.
4. Conference on Innovative Technologies in Intelligent Systems & Industrial Applications (CITISIA 2020), Sydney, Australia, 2020.

5. International Scientific Conference on Information Technology to enhance E-learning and other Applications (IT_ELA2020), Baghdad, Iraq, 2020.
6. 2020 International Conference on Computer Science and Software Engineering (CSASE2020), Duhok, Kurdistan Region-Iraq.
7. 2nd International Iraqi Conference on Engineering Technology and its Applications (2nd-IICETA-2019), Najaf, Iraq.
8. The Journal of Duhok University (JDU). University of Duhok, Duhok, Kurdistan Region-Iraq.
9. The Journal of Applied Science and Technology Trends (JASTT). Zaxo, Kurdistan Region-Iraq.
10. International Conference on Advanced Science and Engineering (ICOASE2018 and ICOASE2019). Duhok, Kurdistan Region-Iraq.
11. International Conference on Remote Engineering and Virtual Instrumentation (REV), 2016. Madrid, Spain.
12. Information Technology & People Journal (ITP), 2015.
13. International Conference on Remote Engineering and Virtual Instrumentation (REV), 2014. Porto, Portugal.

COMMUNITY SERVICE

1. Chair Session in Conference on Innovative Technologies in Intelligent Systems & Industrial Applications (CITISIA 2021), Sydney, Australia, 2021.
2. Chair Session in International Conference on Advanced Science and Engineering (ICOASE2020), Duhok, Kurdistan Region-Iraq, 2020.
3. Chair Session in Conference on Innovative Technologies in Intelligent Systems & Industrial Applications (CITISIA 2020), Sydney, Australia, 2020.
4. Chair Session in 2020 International Conference on Computer Science and Software Engineering (CSASE2020), Duhok, Kurdistan Region-Iraq.
5. Chair Session in the 2020 International Conference on Computer Science and Software Engineering (CSASE2020), Duhok, Kurdistan Region-Iraq.
6. Editorial Board of the Journal of Duhok University (JDU) (2019-2021). <http://journal.uod.ac/index.php/uodjournal/about/editorialTeam>
7. Editorial Board of the Journal of Applied Science and Technology Trends (JASTT) (2019-yet)
8. Scientific Committee at Computer Science Department (2017-2020)
9. Track Chair in the National Committee Program in International Conference on Advanced Science and Engineering (ICOASE2019).

10. Chair Session in the National Committee Program in International Conference on Advanced Science and Engineering (ICOASE2018 and ICOASE2019).
11. Evaluated online labs project: <http://relle.ufsc.br/>
12. Maintained the source code of VISIR "UI" in order to support two additional languages (Arabic and Kurdish) and installed these two languages at ISEP. <http://svn.openlabs.bth.se/trac/openlabsweb/changeset/450>
13. Participated in Imagine Cup competition (2011 and 2012).
14. Part time employee at Zakroz Company for Computer Services (Maintenance & Communication of Networks), Duhok, Kurdistan Region, Iraq.
15. Worked as network manager in College of Science, University of Duhok, Duhok, Kurdistan Region, Iraq.

LANGUAGES

KURDISH: Native Language

ARABIC: Advanced (Listener, Speaker, Reading and Writing)

ENGLISH: Very Good (Listener, Speaker, Reading and Writing)

PORTUGUESE: Basic Listener, Novice (Speaker and Reading)

REFERENCES

References are available on request.