

Anas "Mohammad Ramadan" Ahmed AlSobeh

PERSONAL INFORMATION



Anas AlSobeh, Ph.D.

📍 Assistant Professor, Program Coordinator, IEEE Member
Information Technology (ITEC) Program
School of Computing
College of Engineering, Computing, Technology, and Mathematics
Southern Illinois University, Carbondale, IL 62901, USA

Contact Information:

📞 Mobile/WhatsApp: +1 (618) 713 7451
✉ Email: anas.alsobeh@siu.edu, anas.alsobeh@gmail.com
🆔 ORCID: <https://orcid.org/0000-0002-1506-7924>
💬 Zoom, Teams: anas.alsobeh@siu.edu | Google Meet: anas.alsobeh@gmail.com
Gender: Male | Nationality: Jordanian
Website: [Visit me \(Click Here\)](#)

SUMMARY

I received a Ph.D. in Computer Science from Utah State University, where I completed the degree under the advisement of Dr. Stephen Clyde (2011 to 2015). I received a B.Sc. and M.Sc. in Computer Information Systems (CIS) from Yarmouk University, in 2007 and 2010, respectively. Currently, I'm an Assistant Professor of the Information Technology program at Southern Illinois University, Carbondale, IL, USA. I have served as a faculty member in the Department of Information Systems at Yarmouk University in Jordan, where I've also served as the Director of the Refugees, Displaced Persons, and Forced Migration Studies Center. My areas of research expertise include Software Design and Modeling, Data Analysis, Web Technology, Artificial Intelligence (AI), Cybersecurity Analysis, Internet-of-things (IoT), and Cloud Computing. I have been actively engaged in multidisciplinary research projects and have a record of several publications and presentations in my field. I have also received various national and international research grants, serving as both a principal investigator and a team member in multiple EU-funded projects from H2020, HOPES, Erasmus+, and Nuffic. Additionally, I recently received the Data Science and Machine Learning: Making Data-Driven Decisions program certificate from MIT's Institute for Data, Systems, and Society (IDSS) and the AWS Cloud Practitioner Program by Amazon Web Services.

RESEARCH INTERESTS

Software Engineering, Cybersecurity Analysis, Machine Learning, Artificial Intelligence, Web Security, Data Analysis, Web Technology, Aspect-Oriented Programming (AOP), Distributed Systems, Cloud Computing, and Social Engineering.

TEACHING INTERESTS

Web Design, Client/Server Programming, Java Programming, Python Programming, Software Engineering, Database Management Systems, Information Security, Web Security, Visual Programming, Object-Oriented Programming, Aspect-Oriented Programming, Software Design and Modeling, Machine Learning, and Data science.

EDUCATION

- January 2011– December 2015 Doctorate Degree (PhD), Utah State University, Logan, Utah, USA
Computer Science, GPA: 3.94 (95.5 Excellent)
Dissertation Title: Improving Reuse of Distributed Transaction Software with Transaction-Aware Aspects
Mentor: Stephen Clyde (swc@mdsc.com)
- August 2007–January 2010 Master Degree [M.Sc], Yarmouk University, Irbid, Jordan
Computer Information Systems. GPA: 88.2 (Excellent)
- September 2003– January 2007 Bachelor Degree [B.Sc], Yarmouk University, Irbid, Jordan
Computer Information Systems, GPA: 86.2 (Excellent)

EXPERIENCES

- 1 JANUARY 2023 – PRESENT **Assistant Professor, Information Technology, School of Computing, Southern Illinois University, Carbondale, Illinois, USA.**
As an Assistant Professor of Information Technology at Southern Illinois University, my job duties involved a balance of research, teaching, and service responsibilities. I conduct research in my area of expertise, deliver courses to undergraduates, and engage with the university and broader community through service activities. The main goal is to contribute to the success of the department and the university and to help prepare the next generation of information technology professionals.
- Research (30%):
1. Conducting research in the field of Information Technology and related areas.
 2. Developing and submitting research proposals to funding agencies.
 3. Collaborating with other researchers and faculty members to conduct interdisciplinary research projects.
 4. Disseminating research findings through publications, presentations, and other channels.
 5. Participating in professional conferences and workshops to keep abreast of the latest research developments.
- Teaching (50%):
1. Preparing and delivering lectures, presentations, and other teaching materials for undergraduate and graduate courses.
 2. Engaging with students through active learning methods, such as group projects and discussions.
 3. Evaluating and grading student assignments, quizzes, and exams.
 4. Providing academic advising to students and assisting with course selection and degree planning.
 5. Developing new course materials and revising existing ones to keep up with the latest advances in the field.
- Service (20%):
1. Coordinating the Information Technology (ITEC) and Cybersecurity (CTEC) Program

Programs.

2. Serving on departmental, college, and university committees.
3. Participating in outreach activities to engage with the community and promote the department's mission.
4. Engaging in other service activities as needed to support the department's goals and objectives.

SEPT 2022- DECEMBER 2022 **Associate Professor, College of Information Technology, Kingdom University, Bahrain.**
As an academic professional, I was responsible for teaching an IT course and developing a curriculum study plan and course specifications for an IS master program that includes two tracks, namely cybersecurity and data analysis. I was also committed to engaging students in various IT-related activities, including organizing cybersecurity workshops in collaboration with the Department of Security in Bahrain. Additionally, as a representative of the university in formal occasions.

28 APRIL 2020 – SEPT 2022 **Associate Professor, Information Systems Department, Yarmouk University, Jordan.**
As an academic professional, I was responsible for various academic and administrative duties at the university. This includes delivering a requisite number of classes, providing guidance and supervision to graduate students, and actively participating in departmental meetings. I also provide academic support to professors and faculty members and assist with various departmental duties. Additionally, I am responsible for recruiting, training, and mentoring new teaching assistants and other junior staff, as well as conducting research and publishing papers in academic journals. In my role, I represent the university at conferences, delivering presentations as needed, and writing proposals to secure funding for research. I actively participate in faculty and departmental meetings, providing suggestions for improvement, and serving on various committees to continuously improve undergraduate and graduate-level curricula and training programs. With my extensive experience, I have supervised several M.Sc. projects and theses in various universities in Jordan, served on several university-level committees, and represented the department at faculty-level meetings. Additionally, I have experience as a technical team member of several international journals, further demonstrating my expertise in the field. Overall, I am committed to making significant contributions to the success of the university, and to continuously improving both academic and administrative processes to benefit the students and faculty.

31 JANUARY 2016 – 28 APRIL 2020 **Assistant Professor, Information Systems Department, Yarmouk University, Jordan.**
My job duties involved conducting research, delivering courses, and engaging with the university and broader community. In addition, contributing to the success of the department and university, and helping prepare the next generation of information technology professionals. This includes developing and submitting research proposals, preparing, and delivering lectures, grading assignments, providing academic advising to students, and participating in outreach activities.

30 SEPT 2019 – 12 OCT 2021 **Director of the Refugees, Displaced Persons, and Forced Migration Studies Centre, Yarmouk University, Irbid Jordan.**
As an experienced academic leader, I'm responsible for developing and fostering collaborations between academia and organizations to support refugees, displaced persons, and forced migrants. This involves using innovative research methods to provide cutting-edge solutions to meet the needs of these populations. Additionally, I leverage the expertise and resources of leading research institutions to deliver research and training

programs for local and international organizations. My ultimate goal is to establish a comprehensive network of partnerships to support the needs of refugees, displaced persons, and forced migrants in Jordan, with a particular focus on higher education and career opportunities.

2021-2022 **Data Science Consultant for ICMPD, Jordan**

Leading a local team of researchers from Jordan to work on the latest assessment needs of migrants in Jordan and developing custom solutions to support the implementation of the Mobility Partnership (MP) between the EU and the Hashemite Kingdom of Jordan. In addition, I'm responsible for leading and training government staff on the latest data analysis technologies to provide cutting-edge solutions to real-world challenges. Responsible for designing custom training programs for policy makers and technical staff in the areas of data analysis. The project is "Strengthening the Evidence Base for Migration Policies: A Central Migration Data Management Solution for Jordan (MIDAM)), funded by the Danish Ministry of Foreign, Affairs and implemented by the International Centre for Migration Policy Development (ICMPD).

JAN 2011- DEC 2015 **Research Assistant & Teaching Assistant**

I worked closely with Dr. Clyde on research projects and assisted with ongoing teaching activities in the computer science department.

As a research assistant with Dr. Stephen Clyde, my duties included:

1. Conducting research in the field of distributed transaction systems and assisting with ongoing research projects ECCS.
2. Attending research meetings and conferences with Dr. Clyde.
3. Providing general support to Dr. Clyde in his work and research activities.

As a teaching assistant with the computer science department, your duties may include:

1. Providing support to students in the classroom and during office hours.
2. Grading assignments, quizzes, and exams.
3. Providing feedback to students on their work and assisting with academic advising.
4. Assisting with lab activities and providing technical support to students.

Other WORK EXPERIENCES (Workshops, Press, Media Visits, etc.)

2024 SRELO Research Program, Illinois Mathematics and Science Academy: IMSA. Summer Training program, June 17-June 28, 2024.

(Press) Survey: Large numbers of students using AI without professors' knowledge, 2024.
(Link) Daily Egyptian, Southern Illinois University Carbondale, March 2024.

December, 2023 AlSobeh, Anas and Sissom, J.D. (2023, November). Artificial Intelligence and Its Potential Impacts to Sarawak. HAMEeD (High Aptitude Meeting and Discourse). Hybrid HAMEeD Session, Pustaka Negeri Sarawak. Sarawak, Malaysia.

1 January 2023 – Present Assistant Professor, Information Technology, School of Computing, Southern Illinois University, Carbondale, Illinois, USA.

Sept 2022 – December 2022 Associate Professor, Department of Computer Science, Kingdom University, Riffa, Bahrain.

April 2020- Sept 2022 Associate Professor, Department of Information Systems, Yarmouk University, Irbid, Jordan.

05 Feb 2022- 14 Feb 2022 Training of Trainer – Entrepreneurship in Education, Saarland University, Saarbrücken,

	Germany
July - August 2021	Visiting Professor, Department of Computer Engineering, Cankiri Krakakatin University, Cankiri, Turkey.
Oct 2021- Dec 2022	Data Analysis Consultant for ICMPD, Amman, Jordan
Jan 2016–April 2020	Assistant Professor, Computer Information Systems, Yarmouk University, Irbid, Jordan.
Fall 2017	Visiting professor, Department of Informatics, Aristotle University of Thessaloniki, Greece.
Jan 2011– Dec 2015	Graduate Teaching and Research Assistant, Computer Science, Utah State University, 2400 Old Main Hill, 84341 Logan, USA.
Jan 2010– Dec 2011	Full Time Lecturer, Computer Information Systems, Yarmouk University, Irbid, Jordan.
May 2007– Jan 2010	Full-Time Teacher, Ministry of Education, Elementary and Secondary School Bayt-Yafa for Children, Irbid, Jordan.
May 2006- 2007	Software .Net Developer, Aman Information Systems Company, Amman, Jordan.

PROFESSIONAL EXPERIENCES

2024 Chair, The 38-th International Conference on Advanced Information Networking and Applications (AINA-2024) - Workshop-DIAC-2024: The 2nd Workshop on Diversified IoT Applications of Cybersecurity (DIAC-2024). 8-16/4/2024

Chair, The Third Workshop on Advanced Cybersecurity Applications in IoT and Beyond (ACAloT2024), 24-27 Sept. 2024 | Dubrovnik, Croatia. In Conjunction With The International Conference on Intelligent Computing, Communication, Networking and Services (ICCNS2024)

Selected Peer review: Applied sciences. (4), Computer (7), Future Internet (2), IGI- the International Journal of Grid and High-Performance Computing (IJGHPC) (1), IEEE Access (6), Journal of cybersecurity and privacy (2), Simulation modelling practice and theory (1), ACDP Conference, CACEE Conference, CACML Conference, CCRIS Conference, CSITE Conference, DiGes Conference, HEREM Conference, IACIS Conference, ICCE Conference, IJEER Conference, PRIS Conference.

2022-2023 Chair Session Education and AI, SIGITE '23, October 11–14, 2023, Marietta, GA, USA, Oct 11-14 2023.

Chair Session of Cybersecurity and Networking and Communication, The 2023 International Conference on Advances in Computing Research (ARC'23), Orlando, USA, May 8-10, 2023.

Selected Peer review (30 reviews for 13 publications/grants): Applied sciences. (3), Future internet. (2), IEEE access: (3), International journal of environmental research and public health. (1), International journal of grid and high-performance computing. (1), International journal of web services research. (6), Journal of software. (5), Mathematics. (1), Sensors. (1), SN Applied Sciences (1), Sustainability. (4), The journal of supercomputing. (1), Vehicles. (1).

International Conference on Communication and Information technology-2023 (AICCIT)
5th International Conference on Advances in Computer Technology, Information Science and Communications

International Conference on Services Computing

	1st International Conference on Computing, Multimedia, and Information Technology (ICOMMIT)
	Journal of Software: Evolution and Process
	Asia Conference on Mathematics, Data Science and Information System (MDSIS 2023)
	Online Journal of Communication and Media Technologies
	International Conference on Computer Science and Software Engineering (CSSE)
	Eurasian Conference on Natural Language Processing and Information Retrieval (ECNLPiR)
	9th International Conference of Advances in Materials Science and Engineering (MAT)
2021-2022	Reviewer "IET Computers & Digital Techniques", Scopus.
	Member of Postgraduate Studies Committee, Faculty of Information Technology and Computer Science
	Chair of Conference for Migration and Refuge in the Arab Region: Reality-Challenges-Solutions
	Committee Member of 4th ICOIACT 2021, 4 th International Conference on Information and Communication Technology, Indonesia, August 30, 2021, by Universitas Amikom Yogyakarta.
	Guest Speaker, International Conference on "Smart Sustainable Material and Technologies" during July 23-24, 2021, in Berlin, Germany, Online.
2020	Technical Committee Member of "Blockchain Technology in Cloud Computing Challenges and Open Issues" Conference. IWCMC 2020.
	Advisory Board for the Project and International Relations
	Chair of Conference Protracted Displacement Conference: Hopes, Perspectives and Solutions? Governance – Social Dimension – Academia
2019	Technical Committee Member of ACAI 2019 and 2020, International Conference on Algorithms, Computing and Artificial Intelligence. Sanya, China during December 24-26.
	Sustainability Development Committee, Development of Technical and Financial Solutions at Yarmouk University, <i>Member</i> .
2017-2019	Advisory Board of Academic Entrepreneurship Center of Excellence, Yarmouk University, <i>Member</i> .
2017- 2019	Oracle Academy Committee, Faculty of Information Technology and Computer Science, <i>Chair</i> .
2016- 2017	Advisory Board, Refugees, Displaced Persons, and Forced Migration Studies Center, <i>Member</i> .
2014	Organizing Committee, SIGMOD'14 Conference. <i>Member</i> .
2017 – Present	Academic Reviewer, Several Conferences and Journal (Scopus and ISI), <i>Reviewer</i> .
20/8/2019 - Present	International Association of Scientific Researcher A scientific endowment of public benefit, <i>Member</i> .

PUBLISHED JOURNALS AND CONFERENCES PAPER

On going research Projects

- Dylan Middendorf, Anas AlSobeh, Samer Khamaiseh. The Art of Attribution: A Formal Proposal for the Systematic Curation of a Code Authorship Dataset.
- Nima Khalil, Huthaifa I. Ashqar, Omar Darwish, Anas Alsobeh , Intrusion Detection System Based on Inter-arrival time for Cloud Environment.
- Anas M.R. AlSobeh, AbdelRahman Alasmar, (2024). A Hybrid Reasoning Framework to Identify Cross-Cutting Concerns Using Aspect-Oriented Techniques.
- Anas AlSobeh, Alhan Jamil. Towards Practical Runtime Monitoring Approach for Aspect-Oriented Programs Using Model Checking (2024).

Submitted (Under review)

- Emad Shawagfeh, Anas Alsobeh, Sahar Alomari, HorM: A Hyperparameter-Optimized Hybrid Model for Detecting Radicalization in Arabic Tweets with Deep Learning. 2024
- A Generic and Extendable Framework for Benchmarking and Assessing the Change Detection Models, 2024.
- Abhishek Mandar Mahakal, **Anas AlSobeh**, Rami Alkhawaldah, Bilal Al-Ahmad, Md Faisal Kabir (2024) "Proximity-Constrained Counterfactuals for Explainable Diabetic Risk Assessment".

Selected Referred published Journal Papers

- **Anas Alsobeh**, Khalid Jaber, Mahmoud Hammad, Mariam Nurser, Amani Shatnawi, "Android Malware Detection using Time-Aware Machine Learning Approach". Cluster Computing, 2024. (Accepted)
- Alshattnawi, S.; Shatnawi, A.; **AlSobeh, A.M.R.**; Magableh, A.A. Beyond Word-Based Model Embeddings: Contextualized Representations for Enhanced Social Media Spam Detection. Appl. Sci. 2024, 14, 2254. <https://doi.org/10.3390/app14062254>.
- M. Alfreihat, O. Almousa, Y. Tashtoush, **A. AlSobeh**, K. Mansour and H. Migdady, "Emo-SL Framework: Emoji Sentiment Lexicon Using Text-Based Features and Machine Learning for Sentiment Analysis," in IEEE Access, doi: 10.1109/ACCESS.2024.3382836. (Accepted)
- Ahmad Radwan, Mohannad Amarneh, Hussam Alawneh, Huthaifa I. Ashqar, **Anas AlSobeh**, Aws Magableh. (2024). Predictive Analytics in Mental Health: Leveraging LLM Embeddings and Machine Learning Models for Social Media Analysis. International Journal of Web Services Research (IJWSR). (**ISI, Q1, published, 2024**).
- Ahmed Al-Sharifin, Noor Bahr, Amani Shatnawi, **Anas M.R AlSobeh** (2024). The Effectiveness of a Psychosocial Support-Based Program in Raising Legal Empowerment among Refugees in Jordan, فاعلية برنامج يستند إلى الدعم النفسي الاجتماعي في رفع مستوى التمكين القانوني لدى اللاجئين في الأردن، Dirasat: Human and Social Sciences, University of Jordan. (**In Arabic, Q3, Accepted, 2024**)
- Ahmed Al-Sharifin, Mu'ayyad Megdadi, Amani Shatnawi, **Anas AlSobeh**, Aya Akkawi. (2024). The Effectiveness of a Training Program based on health education in improving Health Empowerment level among Refugees in Jordan. Dirasat: Human and Social Sciences. (**Q3, Accepted, 2023**)
- **A. M. R. AlSobeh** and A. A. Magableh, (2023) "BlockASP: A Framework for AOP-Based Model Checking Blockchain System," in IEEE Access, vol. 11, pp. 115062-115075, 2023, doi: 10.1109/ACCESS.2023.3325060.
- **AlSobeh, A. M. R.** (2023). OSM: Leveraging model checking for observing dynamic behaviors in aspect-oriented applications. Online Journal of Communication and Media Technologies, 13(4), e202355. <https://doi.org/10.30935/ojcm/13771>

- **AlSobeh, A. M. R.**, AlAzzam, I., Shatnawi, A. M. J., & Khasawneh, I. (2023). Cybersecurity awareness factors among adolescents in Jordan: Mediation effect of cyber scale and personal factors. *Online Journal of Communication and Media Technologies*, 13(2), e202312. <https://doi.org/10.30935/ojcmnt/12942>
- **AlSobeh, A. .**, & Aloudat , A. . (2022). The Repercussions of the COVID-19 Pandemic on Higher Education and its implications for Syrian Refugees Students (An Analytical Descriptive Study). *Dirasat: Human and Social Sciences*, 49(5), 150–166. <https://doi.org/10.35516/hum.v49i5.2770s>
- Shatnawi, A. M., **AlSobeh, A. M.**, AL-Mifleh, E. I., & Migdady, A. F. (2022). The Effectiveness of a Program Based on Psychosocial Support in Raising the Level of Family Empowerment among Refugees in Jordan. *International Journal of Psychological and Educational Research*, 1(4).
- AL-Refai, Nader S., Noor A. Albahr, Amna F. Migdady, Eman I. AL-Mifleh, Amani Shatnawi, and **Anas AlSobeh**. The Effectiveness of a Training Program Based on psychosocial support to Improve psychological empowerment Level among Refugees in Jordan. "فاعلية برنامج تدريبي مستند إلى الدعم النفسي الاجتماعي في رفع مستوى التمكين النفسي لدى اللاجئين". *International Journal of Psychological and Educational Research* 1, no. 2 (2022).
- Sawsan Alshattnawi, **Anas M.R. AlSobeh**. [2021]. A Cloud-Based IoT Smart Water Distribution Framework Utilizing BIP Component: Jordan As A Model. *International Journal of Cloud Computing*. Inderscience Enterprises Ltd. Scopus.
- **AlSobeh, A.** and Aloudat, A., 2022. The Repercussions of the COVID-19 Pandemic on Higher Education and its implications for Syrian Refugees Students (An Analytical Descriptive Study). *Dirasat: Human and Social Sciences*, 49(5), pp.150-166. DOI: <https://doi.org/10.35516/hum.v49i5.2770>. Scopus.
- Amin Jarrah, Abedalmuhdi Almomany, **Anas M.R. AlSobeh** and Eman Alqudah, [2021]. High-Performance Implementation of Wideband Coherent Signal-Subspace (CSS) based DOA Algorithm on FPGA. *Journal of Circuits, Systems, and Computers*. World Scientific Publishing Company. ISI.
- **AlSobeh, A. M.**, AlShattnawi, S., Jarrah, A., & Hammad, M. M. (2020). Weavesim: A Scalable and Reusable Cloud Simulation Framework Leveraging Aspect-Oriented Programming. *Jordanian Journal of Computers and Information Technology (JJCIT)*, 6(02). (ISI)
- Aws A. Magableh, **Anas M. R. AlSobeh**, Ahmad F. Klaib, (2019). An Evaluation of the Usage of Aspect Orientation and the Gap Between Academic Research and Industry Needs. *Journal of Theoretical and Applied Information Technology*. ID: 39546-JATIT Scopus. (Little Lion Scientific, Scopus).
- Sawsan Alshattnawi, Iyad Abu Doush, **Anas AlSobeh**, (2019). Online Mobile-Based Personal Tour Application Using Artificial Bee Colony Optimization Algorithm. *Journal of Theoretical and Applied Information Technology*. (Scopus).
- Malek M. Barhoush, Najib A. Kofahi, Khalid M.O. Nahar, **Anas M.R. AlSobeh**, Ameera Jaradat, Bayan Alomari, (2019). Performance Enhancement of the Advanced Encryption Standard Via Pipelined Implementation. *Journal of Theoretical and Applied Information Technology*. 15th August 2019. Vol.97. No 15, pp. 4213-4226. (Scopus)
- **Anas M.R. AlSobeh**; Rafat Hammad; Abdel-Karim Al-Tamimi, (2019). A Modular Cloud-based Ontology Framework for Context-aware EHR Services. *International Journal of*

Computer Applications in Technology, 2019 Vol.60 No.4, pp.339 – 350. DOI: 10.1504/IJCAT.2019.101181. (Inderscience, Scopus).

- **Anas M.R. AlSobeh**; Ahmad F. Klaib; Ahlam AlYahya, (2019). A National Framework for E-health Data Collection in Jordan with Current Practices. *International Journal of Computer Applications in Technology (IJCAT)*, 2019 Vol.59 No.1, pp.64 – 73. <https://doi.org/10.1504/IJCAT.2019.097118> (Inderscience, Scopus).
- **Anas M.R. AlSobeh**, Aws Abed Al Raheem Magableh, Emad M. AlSukhni, (2018). Runtime Reusable Weaving Model for Cloud Services Using Aspect-Oriented Programming: The Security-Related Aspect. *International Journal of Web Services Research*, Volume 15 Issue 1, January 2018, Pages 71-88, IGI Publishing Hershey, PA, USA. DOI: 10.4018/IJWSR.2018010104. (IGI-Global, Thomson Reuters-ISI, Impact: 0.667).
- **Anas M. R. AlSobeh**, and Aws A. Magableh, (2018). Architectural Aspect-Aware Design for IoT Applications: Conceptual Proposal. *International Journal of Computer Science & Information Technology (IJCSIT)* Vol 10, No 6, pp. 1-8, December 2018.
- Aws A. Magableh, and **Anas M. R. AlSobeh**, (2018). Securing Software Development Stages Using Aspect-Oriented Concepts. *International Journal of Software Engineering & Applications (IJSEA)*, Vol.9, No.6, pp. 57-71, November 2018. (Scientific Research Publishing, ISI)
- **Anas M. R. AlSobeh**, Stephen W. Clyde, (2016). TransJ: An Abstract Independent-Framework for Weaving Crosscutting Concern into Distributed Transactions. *Journal of Computer Technology and Application (计算机技术与应用: 英文版)*. Issue 4 Vol.7 April 2016, pages 173-195, doi: 10.17265/1934-7332/2016.04.001.
- Al-Kabi, M., Wahbeh, A., **AlSobeh, A.**, Aleroud, A., & Alsmadi, I. (2012). Examining web search trends across Arab countries. *Arabian Journal for Science and Engineering*, 37(6), 1585-1593. (Springer, Thomson Reuters (ISI), Scopus)
- **AlSobh, A.**, Al Oroud, A., Al-Kabi, M. N., & AlSmadi, I. (2010). A multilingual and location evaluation of search engines for websites and searched for keywords. *Brazilian Journal of Information Science: research trends*, 4(1).

Selected Conference Papers

- Darwish, O., Al-shorman, **A., AlSobeh, A.**, Tashtoush, Y. (2024). A Survey Analysis of Internet of Things (IoT) Education Across the Top 25 Universities in the United States. In: Barolli, L. (eds) *Advanced Information Networking and Applications. AINA 2024. Lecture Notes on Data Engineering and Communications Technologies*, vol 203. Springer, Cham. https://doi.org/10.1007/978-3-031-57931-8_47
- **Anas AlSobeh**, Belle Woodward, AI as a Partner in Learning: A Novel Student-in-the-Loop Framework for Enhanced Student Engagement and Outcomes in Higher Education, **SIGITE '23, October 11–14, 2023, Marietta, GA, USA**, ACM ISBN 979-8-4007-0130-6/23/10. DOI: <https://doi.org/10.1145/3585059.3611405>.
- **Anas AlSobeh**, Amani Shatnawi, Integrating Data-Driven Security, Model Checking, and Self-Adaptation for IoT Systems using BIP Components: A Conceptual Proposal Model. *International Conference on Advances in Computing Research (ACR'23)*, May 8-10, 2023, Orlando, Florida, USA. **Springer Book Series: Lecture Notes in Networks and Systems (LNNS)**. (Scopus, 2023)

- Barhoush, M. M., **AlSobeh, A. M.**, & Al Rawashdeh, A. (2019, April). A Survey on Parallel Join Algorithms Using MapReduce on Hadoop. In *2019 IEEE Jordan International Joint Conference on Electrical Engineering and Information Technology (JEEIT)*. IEEE. (IEEE conference). (pp. 381-388) Amman, Jordan, April 2019. DOI: 10.1109/JEEIT.2019.8717427
- **Anas M. R. AlSobeh**, Aws A. Magableh, (2018). An Aspect-Oriented with BIP Components for Better Crosscutting Concerns Modernization In IoT Applications. *5th International Conference on Computer Science and Engineering (CSEN-2018)* Nov 25 ~ 26, 2018, Dubai, UAE, pp 21-31 At: Dubai DOI: 10.5121/csit.2018.81203. ISBN: 978-1-921987-90-8.
- Aws A. Magableh, **Anas M. R. AlSobeh**, (2018). Aspect-Oriented Software Security Development Life Cycle (AOSSDLC). *5th International Conference on Computer Science and Engineering (CSEN-2018)* , Nov 25 ~ 26, 2018, Dubai, UAE, pp33-47 At: Dubai DOI: 10.5121/csit.2018.81204. ISBN: 978-1-921987-90-8.
- **Anas M. R. AlSobeh**, Stephen W. Clyde, (2016). Transaction-Aware Aspects with TransJ: Initial Experiment Show Promising Improvements in Reusability of Distributed Transactions. *The Eleventh International Conference on Software Engineering Advances (ICSEA 2016)*. pp.59. Italy, Rome, July 2016. (Conference, International Academy, Research, and Industry Association (IARIA))
- **Anas M. R. AlSobeh**, Stephen W. Clyde, Unified Conceptual Model for Joinpoints in Distributed Transactions, (2014). *The Ninth International Conference on Software Engineering Advances, ICSEA'14*. Vol. 14, pp. 8-15. France, Nice, October 2014. ISBN: 978-1-61208-367-4. (Conference, International Academy, Research, and Industry Association (IARIA))

THESIS/DISSERTATION/PROJECT SUPERVISION

- Theses
- Khalid Hamdan Jaber, MS of Computer Information Systems, Co- Supervisor, *Thesis Title: Context-Aware Android malware detection Model using machine learning techniques.*
 - Sahar AlOmari, MS of Computer Information Systems, Co-Supervisor, Thesis Title: ***Social Media Text Radicalization Detection Based on Deep Learning Techniques in Arabic language.***
 - Abeer Algazo, MS Student at Yarmouk University, Main Advisor. Thesis title: ***A secure EHR Framework based on Microservices and Blockchain Technologies utilizing the Fluree Data Platform.***
 - Alhan Jamil, MS Student at Yarmouk University, Main Advisor. Thesis title: ***Towards Practical Runtime Monitoring Approach for Aspect-Oriented Programs Using Model Checking.***
 - Abdel Rahman Alasmar, MS Student at Yarmouk University, Main Advisor. Thesis title: ***A Hybrid Reasoning Framework to Identifying Cross-Cutting Concerns Using Aspect-Oriented Techniques.***

- Projects
- Iman Yousef Khasawneh, MS Student at Yarmouk University, Mian Supervisor, Project Title: *Social Engineering and Cybersecurity Awareness: Jordanian Teens as Model*.
 - Ahlam Al-Yahya, MS Student at Yarmouk University, Main Supervisor. Project title: *Cancer and Diabetes Data Analysis in Jordan using a Clustering Algorithm*.
 - Shorooq B. Alazzam, MS Student at Yarmouk University, Main Supervisor. Project title: *Preventing SQL Injection and XSS Attacks using Machine Learning*.

SELECTED SENIOR PROJECTS SUPERVISED

- 2021
 - iTech: Mobile-based Application for Teachers
 - Etrevago: Web-based Auction Systems
 - EVS: Online election system
- 2019
 - Yarmouk Online Academy, Web Application, First Semester 2019.
- 2018
 - Smart Traffic System, IoT-based Management System, First semester 2018.
 - E-Election Student Application, Web-based Application, First Semester 2018.
- 2017
 - Ezra Bethra, Charity Web Application System, Second Semester 2017.
 - Mr. Dentist, Scheduling System, Mobile Application, Second Semester 2017.
 - Automatic Barriers System, IoT Application, Second Semester 2017

FUNDED RESEARCH/ PROJECTS

Principal Investigator (PI)

- [2019 – 2023]
 - Reshaping Attention and Inclusion Strategies for Distinctively Vulnerable People Among the forcibly Displaced [RAISD]. *European Union, Horizon 2020 (H-2020)*. Budget: € 2,662,128.00 Euro.
- [2019 - 2021]
 - Psychosocial Support and Trauma work in Jordan/Certified Advanced Training on Community Based Psychosocial Support in the Context of Forced migration. *Deutsche Gesellschaft for Internationale Zusam-menarbeit (GIZ) GmbH*. Budget: €121,676.94 Euro.
- [2018 - 2020]
 - Toward Innovative Design an Interactive, Secure, Learning and Research YU Cloud Environment [YUCloud]. *Deanship of Scientific Research and Graduate Studies, Yarmouk University*. Budget: 43,140.00 JD, approximately: \$ 60,846.00 USD.
- [2018 - 2019]
 - Design of Smart Water Distribution System Based on Cloud Computing and Internet of Things [SWDS]. *Deanship of Scientific Research and Graduate Studies, Yarmouk University*. Budget: 2,000.00 JD, approximately \$ 2,820.00 USD.
- [2017 - 2019]
 - Providing Fundamental ICT Skills for Syrian Refugees [PFISR]. *European Union, HOPES-MADAD*. Budget: € 53,375 Euro.
- [2017 - 2019]
 - Transferring E-Commerce Fundamentals for Syrian Refugees [TEFSR]. *European Union, HOPES-MADAD*. Budget: € 39,250.000 Euro

Co-Principal Investigator (Co-PI)

- | | |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2021 - 2022 | ▪ PIANO: Pharmaceutical initiative for the medicinal plants of the Middle East in research and teaching (Pharmazeutische Initiative für die Arzneipflanzen des Nahen Ostens in Forschung und Lehre), DAAD: <i>Deutscher Akademischer Austauschdienst German Academic Exchange Service</i> , Budget: € 198,780.00 Euro. |
| 2021 – 2022 | ▪ JUICEE – Developing Jordanian Universities’ Innovation Capacities and Entrepreneurship Education, DAAD: <i>Deutscher Akademischer Austauschdienst German Academic Exchange Service</i> , Budget: € 225,150.00 Euro. |
| Oct. 2020 –Oct 2022 | ▪ Learning & development for a Sustainable future for refugees & host communities to promote co-existence and Socio-Economic Development (LSFR), <i>Orange Knowledge Programme. Tailor-Made Training / Tailor-Made Training Plus</i> , Nuffic. Budget: € 531,778. |
| 2019 – 2022 | ▪ Neurodevelopmental CARE for Refugees [NeuCARE]. <i>European Union, Erasmus+ programme, Capacity Building in higher education - Joint Projects</i> . Budget: € 668,750.00 Euro. |

COURSES

- **Bachelor Information Systems**
 - CIS 101: Computer Skills
 - IT 102: Introduction to Computing Applications
 - CIS 102: Technology and Societies
 - CIS 214: Visual Programming (C#)
 - CIS 227: Human Computer Interaction
 - ITEC 280: Discrete Math for IT
 - CIS 260: Database Management Systems
 - CIS 311: Internet Applications
 - ITEC 312: Programming II / Java
 - CIS 341: Website Design
 - CIS 382: Cloud Computing
 - CIS 411: Client/Server Programming
 - JRN 442: News Website Development
 - CIS 499: Graduation Project (BSc)
- **Master Information Systems**
 - CIS 642: Software Design and Modelling
 - CIS 683: Web Technology
 - CIS 699: Graduation Project (MSc)
- **Social Training Courses**
 - E-Psychology Support Applications
 - Entrepreneurship
 - Digital Transformation
 - E-commerce

HIGHLIGHTS, AND AWARDS

- 2024
 - IEEE Member
- 2022- 2023
 - Data Science and Machine Learning: Making Data-Driven, Decisions program by MIT Institute for Data, Systems, and Society (IDSS).
 - AWS Cloud Partitioner Certificate. Amazon Web Services.
 - Institutional/Signatory Official: Human Subject Research, CITI program.
- 2017
 - Oracle Academy Certificate, Training of Trainees (ToT).
- 2015
 - Member of USU Honoured Graduate Students.
- 2014
 - Research and Projects Grant Proposal Award, Utah State University, USA.
 - Full Tuition Award, Utah State University.
- 2011-2015
 - PhD Scholarship, Yarmouk University, Jordan.
- 2011- 2014
 - First Rank Student Award, Yarmouk University, Jordan.

REFERENCES

- Stephen Clyde, Associate professor of Computer Science, Utah State University, Logan, Utah, USA. Email: swc@mdsc.com.
- Rafat Hammad, PhD, Information Systems, Assistant Professor, Princess Sumaya University for Technology, Amman, Jordan. Tel: 00962 790662129.
- Sawsan Khaleel Alshattnawi, Professor, Computer Science Department sawsan_kh@yu.edu.jo, sawsan.alshattnawi@gmail.com, Mobile: +962779905012.
- Amani Shatnawi, PhD, Assistant Professor, School of Computing, Weber State University, Ogden, Utah, USA. Tel: +1(618) 331-2222, ashatnawi@yu.edu.jo.
- Marco Di Donato, Unimed researcher, Corso Vittorio Emanuele II 142 Roma 00186 Italy, Tel: 0039 349 42 91 656, Email: marco.didonato@unipa.it
- Abdel nasser Hindawi, PhD, Program Coordinator DAAD JORDAN / Manager of the Master Program in the EDU-SYRIA III Project, DAAD Jordan. 2nd Investment Building - 4th Floor, Ahmed Al-Tarawneh Street, Jubeyha, Amman - Jordan, Mobile: 00962 795 620 679, Email: hindawi@daad.de, nasserhindawi@gmail.com. Website: www.daad-jordan.org, www.daad.de.